

# ISO 17427-1:2018 (E)

## Intelligent transport systems — Cooperative ITS — Part 1: Roles and responsibilities in the context of co-operative ITS architecture(s)

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Abbreviated terms
5	Compliance
6	How to use this document
6.1	Roles and responsibilities in the context of Cooperative-ITS
6.2	Guidance for developers and implementers of C-ITS application standards
7	Introduction and theoretical framework
7.1	Use of ODP
7.2	Transferring ODP to roles and responsibilities for C-ITS
7.3	External enterprise objects
7.4	Internal enterprise objects
8	Roles and responsibilities
8.1	Introduction
8.2	Generic description of organizational architecture
8.2.1	System operation
8.2.2	Functional operation
8.2.3	System management
8.2.4	Policy framework
8.3	General responsibilities of actors involved in C-ITS
8.3.1	Registration and authorization
8.3.2	Privacy and data protection
8.4	Role — Functional operation
8.4.1	General
8.4.2	Sub-role — Generic functional operation
8.4.2.1	Sub-role — Content provider
8.4.2.2	Sub-role — service provider
8.4.2.3	Sub-role — Service recipient
8.4.3	Sub-role — Specific functional operation
8.4.3.1	Sub-role — Traffic participant
8.4.3.1.1	Sub-role — Driver
8.4.3.1.2	Sub-role — Special vehicle driver
8.4.3.2	Sub-role — Infrastructure operator
8.4.3.2.1	Sub-role — Road operator
8.4.3.2.2	Sub-role — Roadworks operator
8.4.3.3	Sub-role — Manufacturer
8.4.3.3.1	Sub-role — C2X equipment manufacturer
8.4.3.3.2	Sub-role — Vehicle manufacturer
8.4.3.3.3	Sub-role — Infrastructure manufacturer
8.5	Role — System management
8.5.1	Sub-role — Service catalogue manager

- 8.5.2 Sub-role — C-ITS architect
- 8.5.3 Sub-role — Change manager
- 8.5.4 Sub-role — Test manager
- 8.5.5 Sub-role — Service level manager
- 8.5.6 Sub-role — Homologation manager
- 8.5.7 Sub-role — Compliance manager
- 8.5.8 Sub-role — Financial manager
- 8.5.9 Sub-role — Service owner
- 8.5.10 Sub-role — Project manager
- 8.5.11 Sub-role — Information security manager
- 8.5.12 Sub-role — Privacy manager
- 8.6 Role — System operation
- 8.6.1 Sub-role — Capacity manager
- 8.6.2 Sub-role — Availability manager
- 8.6.3 Sub-role — Technical analyst
- 8.6.4 Sub-role — Configuration manager
- 8.6.5 Sub-role — IT-operations manager
- 8.6.6 Sub-role — Access manager
- 8.7 Role — Policy framework
- 8.7.1 Sub-role — Non-regulatory policy institution
- 8.7.2 Sub-role — Cooperative ITS Credential Management system (CCMS)
- 8.7.3 Privacy body
- 8.7.4 Information security body
- 8.7.5 Sub-role — Authority
- 8.7.5.1 Sub-role — Legislative
- 8.7.5.2 Sub-role — Jurisdiction
- 8.7.5.3 Sub-role — Executive
- 8.8 Profiles

#### Annex A (informative) Methodology and its sample application

- A.1 Methodology to identify Cooperative-ITS (C-ITS) roles, behaviour and responsibilities
  - A.1.1 Introduction
  - A.1.2 Stakeholders
    - A.1.2.1 Actors
  - A.1.3 Basic service independent process descriptions
    - A.1.3.1 Applied approach
    - A.1.3.2 Sequential process description
      - A.1.3.2.1 Push and pull mode
    - A.1.3.3 Modules
    - A.1.3.4 Lifecycle process description
    - A.1.3.5 Transformation of sequential to lifecycle process description
    - A.1.3.6 From the lifecycle process description to a basic organisational model
  - A.1.4 Basic organisational model
- A.2 Sample application of methodology — Hazard location warning
  - A.2.1 General — Hazard location warning
  - A.2.2 Identification of stakeholders and actors
    - A.2.2.1 Stakeholders
      - A.2.2.2 Actors
  - A.2.3 Basic service independent process descriptions
    - A.2.3.1 Sequential process description — Push and pull
    - A.2.3.2 Lifecycle process description
  - A.2.4 Transformation of sequential to lifecycle process description
  - A.2.5 From the lifecycle process description to a basic organisational model
  - A.2.6 Basic organisational model

#### Annex B (informative) Profiles

- B.1 Profiles
  - B.1.1 General description
    - B.1.1.1 Actors
    - B.1.1.2 Scenarios
    - B.1.1.3 Complex scenarios
    - B.1.1.4 Example of a complex scenario
    - B.1.1.5 Supporting actions — System management and policy framework
  - B.1.2 Hazard location warning — Example scenarios

- B.1.2.1** Definition of hazard location warning
- B.1.2.2** Scenario 1
  - B.1.2.2.1** Figurative description
  - B.1.2.2.2** Assignment of actor groups to roles
- B.1.2.3** Scenario 2
  - B.1.2.3.1** Figurative description
  - B.1.2.3.2** Assignment of “actor groups” to “roles”
- B.1.2.4** Scenario 3
  - B.1.2.4.1** Figurative description
  - B.1.2.4.2** Assignment of actor groups to roles
- B.1.2.5** Scenario 4
  - B.1.2.5.1** Figurative description
  - B.1.2.5.2** Assignment of actor groups to roles
- B.1.2.6** Scenario 5
  - B.1.2.6.1** Figurative description
  - B.1.2.6.2** Assignment of “Actor Groups” to “Roles”
- B.1.2.7** Scenario 6
  - B.1.2.7.1** Assignment of “actor groups” to “roles”
- B.1.2.8** Scenario 7
  - B.1.2.8.1** Figurative description
  - B.1.2.8.2** Assignment of “actor groups” to “roles”
- B.1.2.9** Scenario 8
  - B.1.2.9.1** Figurative description
  - B.1.2.9.2** Assignment of “actor groups” to “roles”

Page count: 44