ISO 22085-2:2021 (E)

Intelligent transport systems (ITS) — Nomadic device service platform for micro mobility — Part 2: Functional requirements and dataset definitions

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions, symbols and abbreviated terms

3.1 Terms and definitions
3.2 Abbreviated terms

4 Document overview and structure

5 General information

5.1 Purpose
5.2 Use case overview

6 Functional requirements and dataset definition

6.1 Functional requirements
6.1.1 Functional requirements with related general use cases
6.1.2 Functional requirements for the connectivity among P-ITS-S, MM and MMCS
6.1.2.1 P-ITS-S
6.1.2.2 MM
6.1.2.3 C-ITS-S (or MMCS)
6.2 Dataset definitions
6.2.1 Introduction
6.2.2 Pre-trip
6.2.2.1 General
6.2.2.2 UC 1.1 Micro mobility information providing service
6.2.2.3 UC 1.2 Navigation service linked information on charging station
6.2.2.4 UC 1.3 Pre-scanning available parking space service
6.2.2.5 UC 1.4 Micro mobility sharing service
6.2.2.6 UC 1.5 Micro mobility as an integrated mobility service
6.2.3 En-route
6.2.3.1 General
6.2.3.2 UC 2.1 Traffic information providing service
6.2.3.3 UC 2.2 Micro mobility status monitoring service
6.2.3.4 UC 2.3 Mobile tolling service
6.2.3.5 UC 2.4 Adaptive route management service
6.2.3.6 UC 2.5 Searching available parking space service on the way
6.2.3.7 UC 2.6 Keyless go service for shared micro mobility
6.2.3.8 UC 2.7 Interconnected transfer information providing service
6.2.4 Post-trip
6.2.4.1 General
6.2.4.2 UC 3.1 Micro mobility driving information providing service
6.2.4.3 UC 3.2 Charging station information service
6.2.4.4 UC 3.3 Parked micro mobility position providing service
6.2.4.5 UC 3.4 Shared micro mobility return service

7 Dataset definitions

7.1 request-mm-status
7.2 mm-status-response

7.3 stop-notify-mm-status
7.4 notify-mm-service
7.5 stop-notify-mm-service
7.6 charging-station-information
7.7 parking-space-information
7.8 reservation-acceptance
7.9 public-transit-schedule
7.10 public-transit-reserved-information
7.11 navigation-route-information
7.12 traffic-information
7.13 accident-information
7.14 danger-zone-information
7.15 warning-message
7.16 toll-balance-information
7.17 disconnection-warning-message
7.18 return-information
7.19 payment-information
7.20 request-public-transit-schedule
7.21 request-public-transit-reservation

Page count: 26