ISO 24102-6:2018 (E)

Intelligent transport systems — Communications access for land mobiles (CALM) — ITS station management — Part 6: Path and flow management

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Symbols and abbreviated terms

5 Overview

- 5.1 Relation with the ITS station reference architecture
- 5.2 ITS-S flows
- 5.3 ITS-S communication profiles
- 5.4 ITS-S paths
- 5.5 ITS-S capabilities
- 5.6 Path and flow management
- 5.7 ITS station management functionalities
- 5.8 ITS station management information tables
- 5.9 Interaction with ITS station layers

6 Requirements for flow management and communication profile selection

- 6.1 ITS-S flow type parameters
- 6.2 ITS-S flow parameters
- 6.3 ITS-S flow monitoring
- 6.4 Notification of a communication profile determination
- 6.5 Processing request to provide communication profiles
- 6.6 Processing flow statistic reports

7 Requirements for flow registration

- 7.1 Processing ITS-S flow type registration from ITS-S-AP
- 7.2 Processing RegisterFlow from ITS-S-AP
- 7.3 Processing ReleaseFlow request from ITS-S-AP
- 7.4 Checking ITS-S-AP credentials
- 7.5 Checking communication requirements
- 7.6 Checking ITS-S path availability
- 7.7 Communication profile determination

8 Requirements for path management

- 8.1 ITS-S path parameters
- 8.2 Topological and geographic position parameters
- 8.3 Collecting topological and geographical information
- 8.4 Path management
- 8.5 ITS-S path monitoring
- 8.6 Interface management

9 Requirements for path selection

- 9.1 General requirements for path selection
- 9.2 Routing policies parameters
- 9.3 Notifying path selection
- 9.4 Notifying routing policies

10 Requirements for ITS-S capabilities management

10.1 Maintenance of ITS-S capabilities information
10.2 Determination of internal ITS-S capabilities
10.3 Determination of neighbour ITS-S capabilities
10.4 Activating ITS-S capabilities in the ITS-S Managed Service Entity
10.5 Suspending ITS-S capabilities in the ITS-S Managed Service Entity
10.6 Resuming ITS-S capabilities in the ITS-S Managed Service Entity
10.7 Reporting about ITS-S capabilities in the ITS-S Managed Service Entity

Annex A (normative) M*-COMMANDs from SME

A.1 General
A.2 Overview
A.3 Details
A.3.1 AdjustFlows
A.3.2 CollectFlowStats
A.3.3 CollectPathStats
A.3.4 DiscoverCapa
A.3.5 GetCapa
A.3.6 SetCapa
A.3.7 SetCP
A.3.8 SetFlow2Path
A.3.9 SetFlowPolicy
A.3.10 SetPath

Annex B (normative) M*-REQUESTs to the SME

B.1 General
B.2 Overview
B.3 Details
B.3.1 GetCP
B.3.2 NotifyCapa
B.3.3 NotifyLocGeo
B.3.4 NotifyLocTopo
B.3.5 NotifyNeighbourCapa
B.3.6 NotifyPath
B.3.7 RegisterFlow
B.3.8 ReleaseFlow
B.3.9 ReportFlowStats
B.3.10 ReportPathStats

Annex C (normative) PFM error codes

Annex D (normative) ASN-1 modules

D.1 Overview
D.2 Module ITSpfm
D.3 Dynamic extensions
D.3.1 M*-SAP extensions of ISO 24102-3
D.3.2 ASN.1 CLASS types of ISO 24102-6
D.3.3 Other ASN.1 types

Page count: 65