# INTERNATIONAL STANDARD

ISO 13111-2

First edition 2022-07

Intelligent transport systems (ITS) — The use of personal ITS stations to support ITS service provision for travellers —

Part 2:

**General requirements for data exchange between ITS stations** 

Systèmes de transport intelligents (ITS) — Utilisation d'une station ITS personnelle pour la fourniture de services ITS aux voyageurs —

Partie 2: Exigences générales pour l'échange de données entre station ITS personnelle et autres stations ITS



# iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 13111-2:2022 https://standards.iteh.ai/catalog/standards/sist/b390c3a9-2b11-4c4e-8bfd-832f068592df/iso



### **COPYRIGHT PROTECTED DOCUMENT**

© ISO 2022

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

Co	ntent	S		Page
Fore	eword			vi
Intr	oductio	n		vii
1	Scop	е		1
2	-		references	
3			nitions and abbreviated terms	
3	3.1		s and definitions	
	3.2		eviated terms	
4	Gene		uirements	
		_		
5	5.1		plementations ase clusters overview	
	5.2		ase implementations	
	5.2	5.2.1	Get positioning information by accessing a roadside station through the	J
		0.2.1	P-ITS-S and R-ITS-S interaction interface	5
		5.2.2	Requesting slow transport and local transport information service	
		5.2.3	Requesting the safety evacuation passageway or emergency service	
		5.2.4	Transfer information service in the parking lot	10
		5.2.5	Requesting the transfer information service in an integrated	12
		5.2.6	transportation hubTraffic and public transport information service via P2C or P2R interaction	12
		5.2.0	interface	14
		5.2.7	Trip planning for travellers with a personal ITS station	
		5.2.8	Vehicle service through the P2V interaction interface	17
		5.2.9	Share location through the interaction interface between the personal	
			stations	
		5.2.10	Team travel 130 13111-2.2022 seh.a/catalog/standards/sist/b390c3a9-2b11-4c4e-8bfd-832f068592df/iso-	21
6	Mess	sage set	12111222022	22
	6.1	Get p	ositioning information by accessing a roadside station through the P-ITS-S	
			R-ITS-S interaction interface	
		6.1.1	available_positioning_service	
		6.1.2 6.1.3	position_service_listselected_position_serviceselected_position_service	
			position_info_collection	
		6.1.5	position_service_CITS	
		6.1.6	current_position_info	
https:		6.1.7	return_status	25
		6.1.8	roadside_request	
	6.0	6.1.9	roadside_info_list	
	6.2	6.2.1	esting to download and update local transport network data	
		6.2.2	local_transportnetworkget_datapackage	
		6.2.3	slowtransport_navi	
		6.2.4	optimal_slowtransport_navi_path	
		6.2.5	search_surrounding_facilities	
		6.2.6	surrounding_facilities	
		6.2.7	search_surrounding_commercial	
		6.2.8	surrounding_commercial_info	
	6.3		esting the safety evacuation passageway or emergency service	
		6.3.1 6.3.2	safety_evacuation_passagewayoptimal_navigation_path	
		6.3.3	emergency_info	
		6.3.4	sending_status	
			raquast rascua info	34

# ISO 13111-2:2022(E)

	6.3.6	Rescue_info	
	6.3.7	emergency_status	
6.4	Transf	er information service in the parking lot	
	6.4.1	request_surrounding_parking	35
	6.4.2	surrounding_parking_info	36
	6.4.3	get_surrounding_traffic	36
	6.4.4	surrounding_realtime_map	37
	6.4.5	surrounding_realtime_traffic_info	37
	6.4.6	request_parking_facility	38
	6.4.7	surrounding_facility_info	38
	6.4.8	parkinglot_indoor_navigation	39
	6.4.9	optimal_parkinglot_path	39
	6.4.10	Request_car_POS	
	6.4.11	parkinglot_car_POS	
		car_POS_info	
		request_pedestrian_path	
		optimal_pedestrian_path	
6.5		sting the transfer information service in an integrated transportation hub	
	6.5.1	public_transport_timetable	
	6.5.2	public_transport_time	
	6.5.3	request_public_transport	
	6.5.4	public_transport_location	
	6.5.5	request transfer info	
	6.5.6	optimal_transfer_path	
	6.5.7	request_express_channel	
	6.5.8	optimal_security_path	
6.6		and public transport information service via P2C or P2R interaction	10
0.0	interfa	ice	47
	6.6.1	request_public_transport	
	6.6.2	optimal_public_transport_path	
	6.6.3	request_traffic_info	
	6.6.4	road_traffic_info	
	6.6.5	request_public_transport_info	
	6.6.6	public_transport_vehicle_status	
	6.6.7	request_realtime_transfer_info	
	6.6.8	surrounding_realtime_transfer_map	
	6.6.9	surrounding_realtime_transfer_info	
6.7		anning for travellers with a personal ITS station	
0.7	6.7.1	search_POI	
	6.7.2	POI info	
	6.7.3	planning_route	
	6.7.4	planningroute_return_status	
	6.7.5	request_route_info	
	6.7.6	route return status	
	6.7.7	request_modify_trip	
	6.7.8	modifytrip_return_status	
	6.7.9	request_pasttrip_info	
	6.7.10	pasttrip_return_status	
		Definition of request_multimodal_navigation_info	
		multimodal_optimal_navigationpath	
6.8		e service through the P2V interaction interface	
0.0	6.8.1	request_vehicle_status	
	6.8.2	vehicle_statusvehicle_status	
	6.8.3	_	
		request_vehicle_info	
	6.8.4	vehicle_info	
	6.8.5	request_vehicle_equipment	
	6.8.6	vehicle_equipment_status	
	6.8.7	remote_control	59

	6.8.8	sending_status execution_status mirror_link	59
	6.8.9	execution_status	60
	6.8.10	mirror_link	60
6.9	Share	location through the interaction interface between the personal stations	60
	6.9.1		
	6.9.2	request_open_POSrequest_participate_activity	61
	6.9.3	request info sharing	61
	6.9.4	shared info	62
	6.9.5	request_helphelp_info	62
	6.9.6	help_info	62
	6.9.7	remove linkage	63
6.10	Team	travel join_team	63
	6.10.1	join_team	63
	6.10.2	request_team_info	63
	6.10.3	team_info	64
		request_leading_vehicle	
	6.10.5	leading_vehicle_trajectory	64
		member_location	
		request_close_tracking	
Annex A (n	ormative	e) ASN.1 module	67
Bibliograp	hv		69

# iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 13111-2:2022

https://standards.iteh.ai/catalog/standards/sist/b390c3a9-2b11-4c4e-8bfd-832f068592df/iso-13111-2-2022

#### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see <a href="https://www.iso.org/patents">www.iso.org/patents</a>).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see <a href="https://www.iso.org/iso/foreword.html">www.iso.org/iso/foreword.html</a>.

This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

A list of all parts in the ISO 13111 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

# Introduction

This document defines the data exchange protocol between personal ITS stations and other ITS stations which are used to implement the use case defined in ISO 13111-1.

This document defines protocol based on the data exchange message (DXM) at application level between personal ITS stations and other ITS stations, such as vehicle ITS stations, central ITS stations, roadside ITS stations, etc.

Applications supporting ITS service provisions and multimedia use via personal ITS stations need to harmonize with existing or developing documents in the relevant areas. These applications can be implemented using vehicle information, driver advisory systems, warning systems, entertainment systems, traffic information, public transport information, slow transportation system (non-motorized travel) information and multimodal navigation services based on the communication architecture and protocol defined in ISO/TR 13185-1 and other related documents listed below:

- the ISO 13185 series, defining the vehicle interface for provisioning and support of ITS services;
- ISO 19132, ISO 19133 and ISO 19134, defining the conceptual schema of location-based services, tracking and navigation services, and multimodal navigation services;
- the ISO 15031 series, defining emissions-related diagnostic data supported by vehicles in all countries requiring on-board diagnostics (OBD) compliance;
- ISO 22900-2, defining the modular vehicle communication interface (MVCI) diagnostic protocol data unit (D-PDU API) to separate the protocol data unit (PDU) from vehicle-specific protocols;
- the ISO 22902 series,<sup>1)</sup> defining provisions for multimedia and telematics based on automotive multimedia interface collaboration (AMI-C) specifications and reference documents for the automotive industry. The important logical element of the architecture is a vehicle interface;
- ISO 22837, defining the reference architecture for probe vehicle systems and a basic data framework for probe data;
- the ISO 27145 series, defining diagnostic data (emissions-related systems, future safety-related systems, etc.) to be supported by vehicles in all countries implementing the GTR (Global Technical Regulation) into their local legislation;
- ISO/TS 29284, defining the standardization of information, communication and control systems in the field of urban and rural surface transport, including intermodal and multimodal aspects thereof, traveller information, traffic management, public transport, commercial transport, emergency services and commercial services in the ITS field:
- SAE J2735, defining the support of interoperability among dedicated short-range communication (DSRC) applications through the use of standardized message sets, data frames and data elements.

\_

<sup>1)</sup> Withdrawn.

# iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 13111-2:2022 https://standards.iteh.ai/catalog/standards/sist/b390c3a9-2b11-4c4e-8bfd-832f068592df/iso

# Intelligent transport systems (ITS) — The use of personal ITS stations to support ITS service provision for travellers —

# Part 2:

# General requirements for data exchange between ITS stations

### 1 Scope

This document defines the data exchange protocol used to implement use cases for applications based on the personal ITS station defined in ISO 13111-1, which provides and maintains ITS services to travellers, including drivers, passengers and pedestrians.

The ITS applications supported by this document include multimodal transportation information services and multimodal navigation services that are based on personal ITS stations in various application scenarios defined in ISO 13111-1.

The use case implementations described in this document refer to the architecture defined in ISO 21217 and ISO 13184.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 15031-2, Road vehicles — Communication between vehicle and external equipment for emissionsrelated diagnostics — Part 2: Guidance on terms, definitions, abbreviations and acronyms

#### 3 Terms, definitions and abbreviated terms

#### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 15031-2 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="https://www.electropedia.org/">https://www.electropedia.org/</a>

#### 3.1.1

#### central ITS station

#### C-ITS-S

implementation of an ITS station in a central ITS subsystem

#### 3.1.2

#### **ITS** service

service provided by a set of ITS station applications

#### ISO 13111-2:2022(E)

#### 3.1.3

#### **ITS station**

#### **ITS-S**

entity in a communication network, comprised of application, facilities, networking and access layer components as specified in ISO 21217, that operate within a bounded secure management domain

#### 3.1.4

#### **ITS-S** application

functionality in an ITS station that uses ITS station services to connect to one or more other ITS station applications.

#### 3.1.5

#### **ITS-S service**

communication functionality offered by an ITS station to an ITS station application

#### 3.1.6

#### nomadic device

ND

device that provides communications connectivity via equipment such as cellular telephones, mobile wireless broadband (WIMAX, HC-SDMA, etc.), WiFi, etc. and includes short range links, such as Bluetooth, Zigbee, etc. to connect nomadic devices to the motor vehicle communications system network

#### 3.1.7

#### personal ITS station

#### P-ITS-S

implementation of an ITS station with a personal ITS subsystem

Note 1 to entry: P-ITS-S is used to send the information of each user (drivers, passengers and pedestrians) to the other ITS station, and receives messages from other ITS stations which will be processed and presented on the user's terminal device according to the ITS station services and/or applications being executed.

# 3.1.8 https://standards.iteh.ai/catalog/standards/sist/b390c3a9-2b11-4c4e-8bfd-832f068592df/iso

#### roadside ITS station

#### **R-ITS-S**

system that receives and processes vehicular and pedestrian information within a certain zone and determines the situation, in order to provide safety warning and parking guide services to vehicles and pedestrians

Note 1 to entry: The system is installed at the roadside.

### 3.1.9

#### slow transportation system

#### non-motorized travel

transport system via pedestrians and bicycles

#### 3.1.10

#### vehicle ITS station

#### V-ITS-S

implementation of an ITS station with a vehicle ITS subsystem

#### 3.2 Abbreviated terms

AMI-C automotive multimedia interface collaboration

ASN.1 abstract syntax notation one

D-PDU diagnostic protocol data unit

DSRC dedicated short-range communication

DXM	data exchange message		
GTR	Global Technical Regulation		
ITS	intelligent transport systems		
ITS-S	intelligent transport system-station		
MVCI	modular vehicle communication interface		
OBD	on-board diagnostics		
P2C	product to consumer		
P2R	product to retail		
PDU	protocol data unit		
POI	point of interest		
POS	position		
UC	use case		
V-ITS-S	vehicle ITS station		
V-ITS-SG	vehicle ITS station gateway		

# 4 General requirements (standards.iteh.ai)

The service consists of a request and response message. The data transmitted in request and response message are structured in ASN.1 in accordance with  $\underline{\text{Annex A}}$ .  $\underline{\text{L4c4e-8bfd-832}}$ 

# 5 Use case implementations

# 5.1 Use case clusters overview

Table 1 provides an overview of use cases (UCs).

Table 1 — Use case clusters

No.	Title of use case cluster	Brief description
1	Slow transport information service:	The use cases shall describe the data exchange between the P-ITS-S and R-ITS-S.
	Get positioning infor-	UC 1.1—Requesting available positioning service
	mation by accessing a roadside station through	UC 1.2—Requesting positioning information
	the P-ITS-S and R-ITS-S	UC 1.3—Requesting positioning service from C-ITS-S
	interaction interface	UC 1.4—Requesting to turn ON/OFF the positioning service
		UC 1.5—Requesting/receiving roadside information

 Table 1 (continued)

No.	Title of use case cluster	Brief description
2	Slow transport information service:	The use cases shall describe the slow transport information service and local transport service.
	Requesting slow trans-	UC 2.1—Requesting to download and update local transport network data
	port and local transport information service	UC 2.2—Requesting slow transport navigation information [pedestrian, bicycles, and information to support those with disabilities such as decreased personal mobility or decreased vison (amblyopia)]
		UC 2.3—Requesting to search surrounding facilities
		UC 2.4—Requesting/receiving surrounding commercial information
3	Slow transport information service:	The use cases shall describe the evacuation information and emergency service for a P-ITS-S user.
	Requesting the safety	UC 3.1—Requesting the safety evacuation passageway
	evacuation passageway or emergency service	UC 3.2—Requesting emergency service
		UC 3.3—Sending the rescue information
		UC 3.4—Receiving the rescue information
		UC 3.5—Closing the state of emergency
4	Transfer information service:	The use cases shall describe the transfer information service in the parking lot via P2C or P2R interaction interface.
	Transfer information ser-	UC 4.1—Requesting/receiving the surrounding parking information
	vice in the parking lot	UC 4.2—Requesting/receiving the surrounding real-time traffic information
		UC 4.3—Requesting the parking facility information
		UC 4.4—Requesting indoor navigation in a parking lot
	https://standards.iteh.ai/	UC 4.5—Requesting the car location in the parking lot 332f068592df/iso-
		UC 4.6—Requesting pedestrian routing to the car location
5	Transfer information service:	The use cases shall describe the transfer information service in an integrated transportation hub for specific flight, train and/or bus lines.
	Requesting the transfer	UC 5.1—Requesting/receiving the arrival and departure time
	information service in an integrated transportation hub	UC 5.2—Requesting the station or platform for specific flight, train and/or bus lines
		UC 5.3—Requesting the transfer route
		UC 5.4—Requesting the express security channel
6	Multimodal traffic information service:	The use cases shall describe the public transport service via P2C or P2R interaction interface.
	Traffic and public trans-	UC 6.1—Requesting public transport information
	port information service via P2C or P2R interaction	UC 6.2—Requesting road traffic information
	interface	UC 6.3—Requesting/Receiving real-time public transport information
		UC 6.4—Requesting/Receiving real-time transfer information

 Table 1 (continued)

No.	Title of use case cluster	Brief description
7	Multimodal navigation service:	The use cases shall describe the trip planning for travellers with a personal ITS station.
	Trip planning for travel-	UC 7.1—Requesting to search point of interest (POI)
	lers with a personal ITS station	UC 7.2—Requesting trip and/or route planning
	Station	UC 7.3—Request route information (routing, traffic information, waypoint, destination and eco-driving)
		UC 7.4—Requesting to modify the trip or re-routing
		UC 7.5—Requesting past trip information (route, arrival time)
		UC 7.6—Requesting multimodal navigation information
8	Multimodal navigation service: Vehicle service through	The use cases shall describe the interface of the vehicle information service when a P-ITS-S connects to a V-ITS-S through the V-ITS-SG defined in the ISO 13185 series.
	the P2V interaction inter-	UC 8.1—Requesting vehicle status
	face	UC 8.2—Requesting vehicle basic information
		UC 8.3—Requesting vehicle equipment status
		UC 8.4—Requesting remote control
	T.I. OT	UC 8.5—Requesting mirror link
9	Communities activities:  Share location through	The use cases shall describe the interaction interface between the personal ITS stations.
	the interaction interface	UC 9.1—Requesting to open the location information
	between the personal stations	UC 9.2—Requesting to participate in a location-based activity
		UC 9.3—Requesting data or information sharing
https:/	/standards.iteh.ai/catalog	UC 9.4—Requesting help 9-2b11-4c4e-8bfd-832f068592df/iso-
		UC 9.5—Removing the linkage/cancelling the session
10	Communities activities: Team travel	The use cases shall describe team travel when a group of vehicles (or bicycles) follows the lead vehicle on the way to the same destination.
	realii ti avei	UC 10.1—Requesting team information
		UC 10.2—Requesting to join a team
		UC 10.3—Requesting to track the lead vehicle
		UC 10.4—Close the tracking or quit the team

## 5.2 Use case implementations

# 5.2.1 Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface

## 5.2.1.1 UC 1.1 — Requesting available positioning service

<u>Table 2</u> provides a definition of UC 1.1 — Requesting available positioning service.

Table 2 — Definition of UC 1.1 — Requesting available positioning service

Use case	Type of service	Slow transport information service	ND in a given environment can get the
	Cluster	1) Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface	local available positioning service.
	Name	UC 1.1 Requesting available positioning service	
	Actor	P-ITS-S, R-ITS-S	
Message	Subclause	Name	Description
	6.1.1	available_position_service	requesting position service
	6.1.2	position_service_list	show position service list

## 5.2.1.2 UC 1.2 — RequestingPositioning information

<u>Table 3</u> provides a definition of UC 1.2 — Requesting positioning information.

Table 3 — Definition of UC 1.2 — Requesting positioning information

Use case	Type of service	Slow transport information service	ND in a given environment can get the
	Cluster	1) Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface	surrounding positioning information.
	Name	UC 1.2 Requesting positioning information	h.ai)
	Actor	P-ITS-S, R-ITS-S	
Message	Subclause	Name 180 13111-2:2022	Description
1110	6.1.1	available_position_service	search available position service through R-ITS-S
	6.1.3	selected_position_service	position service has selected
	6.1.4	position_info_collection	collect position information

#### 5.2.1.3 UC 1.3 — Requesting positioning service from C-ITS-S

<u>Table 4</u> provides a definition of UC 1.3 — Requesting position service from C-ITS-S.

Table 4 — Definition of UC 1.3 — Requesting positioning service from C-ITS-S

Use case	Type of service	Slow transport information service	ND in a given environment can get the sur-
	Cluster	1) Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface	rounding positioning information. P-ITS-S sends the request to C-ITS-S or R-ITS-S. Then C-ITS-S or R-ITS-S returns the current location information to the P-ITS-S.
	Name	UC 1.3 Requesting positioning service from C-ITS-S	
	Actor	P-ITS-S, R-ITS-S, C-ITS-S	
Message	Subclause	Name	Description
	6.1.5	position_service_CITS	send user ID and position service to C-ITS-S
	6.1.6	current_position_info	get current position information

#### 5.2.1.4 UC 1.4 — Requesting to turn ON/OFF positioning service

<u>Table 5</u> provides a definition of UC 1.4 — Requesting to turn ON/OFF positioning service.

Table 5 — Definition of UC 1.4 — Requesting to turn ON/OFF positioning service

Use case	Type of service	Slow transport information service	When the ND does not want to use location
	Cluster	1) Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface	information, P-ITS-S may close(open)positioning service.
	Name	UC 1.4 Requesting to turn ON/OFF positioning service	
	Actor	P-ITS-S	
Message	Subclause	Name	Description
	6.1.7	return_status	return the status before requesting

#### 5.2.1.5 UC 1.5 — Requesting/receiving roadside information

<u>Table 6</u> provides a definition of UC 1.5 — Requesting/receiving roadside information.

Table 6 — Definition of UC 1.5 — Requesting/receiving roadside information

Use case	Type of service	Slow transport information service	Individual users request to search the
	Cluster	1) Get positioning information by accessing a roadside station through the P-ITS-S and R-ITS-S interaction interface	roadside information from P-ITS-S. Then, P-ITS-S sends the request to R-ITS-S which returns the roadside information and P-ITS-S receives the roadside information.
https://sta	Name andards.iteh.ai/ca	UC 1.5 Requesting/receiving roadside information Sist/b390c3a9-2b1	1-4c4e-8bfd-832f068592df/iso-
1	Actor	P-ITS-S, R-ITS-S 111-2-2022	
Message	Subclause	Name	Description
	6.1.8	roadside_request	request the roadside information
	6.1.9	roadside_info_list	show roadside information list

## 5.2.2 Requesting slow transport and local transport information service

#### 5.2.2.1 UC 2.1 — Requesting to download and update local transport network data

<u>Table 7</u> provides a definition of UC 2.1 — Requesting to download and update local transport network data.

Table 7 — Definition of UC 2.1 — Requesting to download and update local transport network data

Use case	Type of service	Slow transport information service	Individual users in the slow transport services area request to download and update local transport network data from the P-ITS-S. The P-ITS-S sends the request
	Cluster	2) Requesting slow transport and local transport information service	
	Name	UC 2.1 Requesting to download and update local transport network data	to the central intelligent transport sys- tems; then it returns the data information
	Actor	P-ITS-S, R-ITS-S	about the current position.
Message	Subclause	Name	Description
	6.2.1	local_transportnetwork	show the local transport network
	6.2.2	get_datapackage	download data package