GENIVI Alliance

GENIVI Document CS00063

POIService

Component Specification

Accepted Version 4.0

25-01-2017

Sponsored by:
GENIVI Alliance

Y
NotAccepted

Y2013GENIVI Alliance.

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Abstract:

Keywords:
Y

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1 Change History

Version	Date	Author	Change
0.1	24 Oct 2012	Marco Residori (XS Embedded)	Created empty template
0.2	19 Dec 2012	Marco Residori (XS Embedded)	Added architecture diagram. Added sequence Diagrams. Updated APIs, Added Cedric Ranson's use case descriptions.
1.0	19 Dec 2012	Marco Residori (XS Embedded)	Added architecture diagram. Corrected typos.
1.1	3 Feb 2017	Philippe COLLIOT (PSA GROUPE)	Refine the document for Franca based API

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2 Introduction

This document describes the API of the POIService component.

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3 Terminology

Term	*Description*
POI	Point of Interest
CAM	Content Access Module

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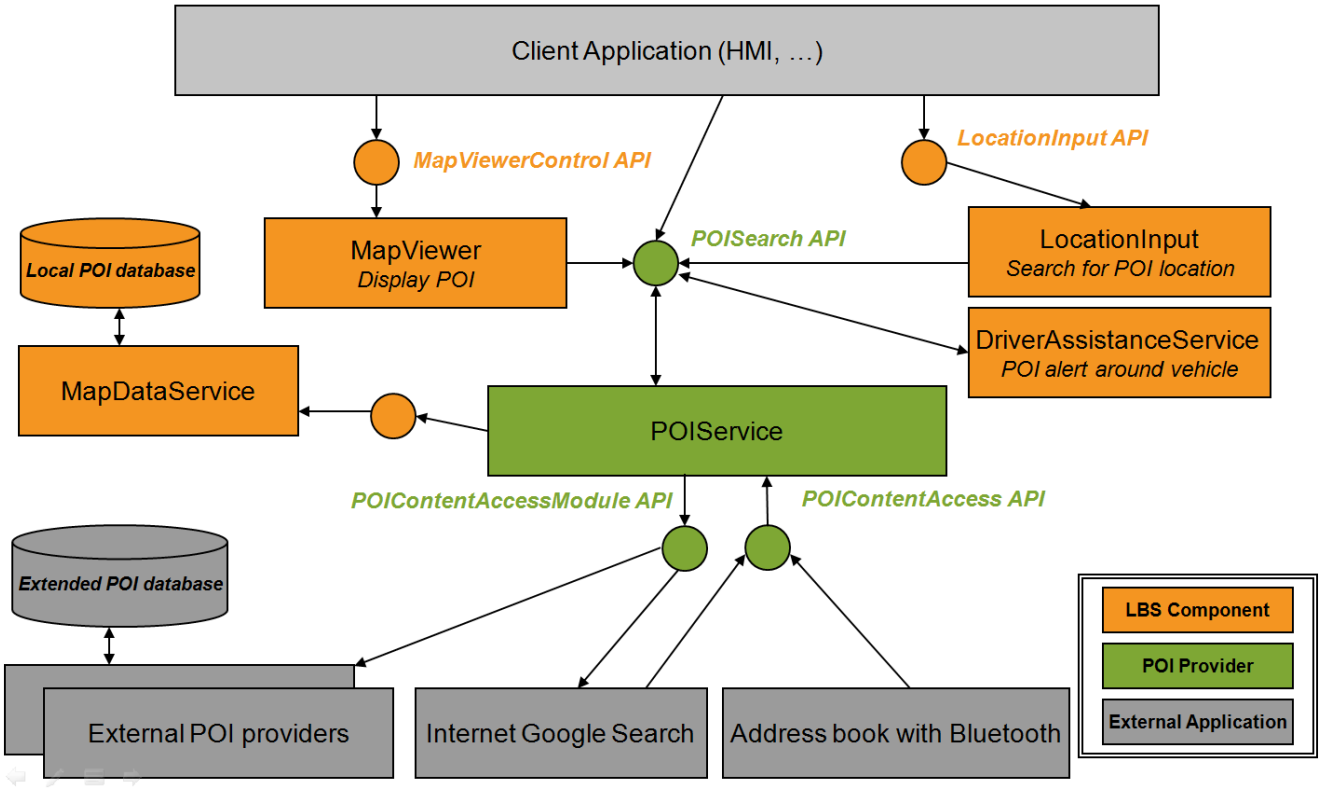
4 Architecture

4.1 Interfaces

- POISearch
- POIContentAccess
- POIContentAccessModule



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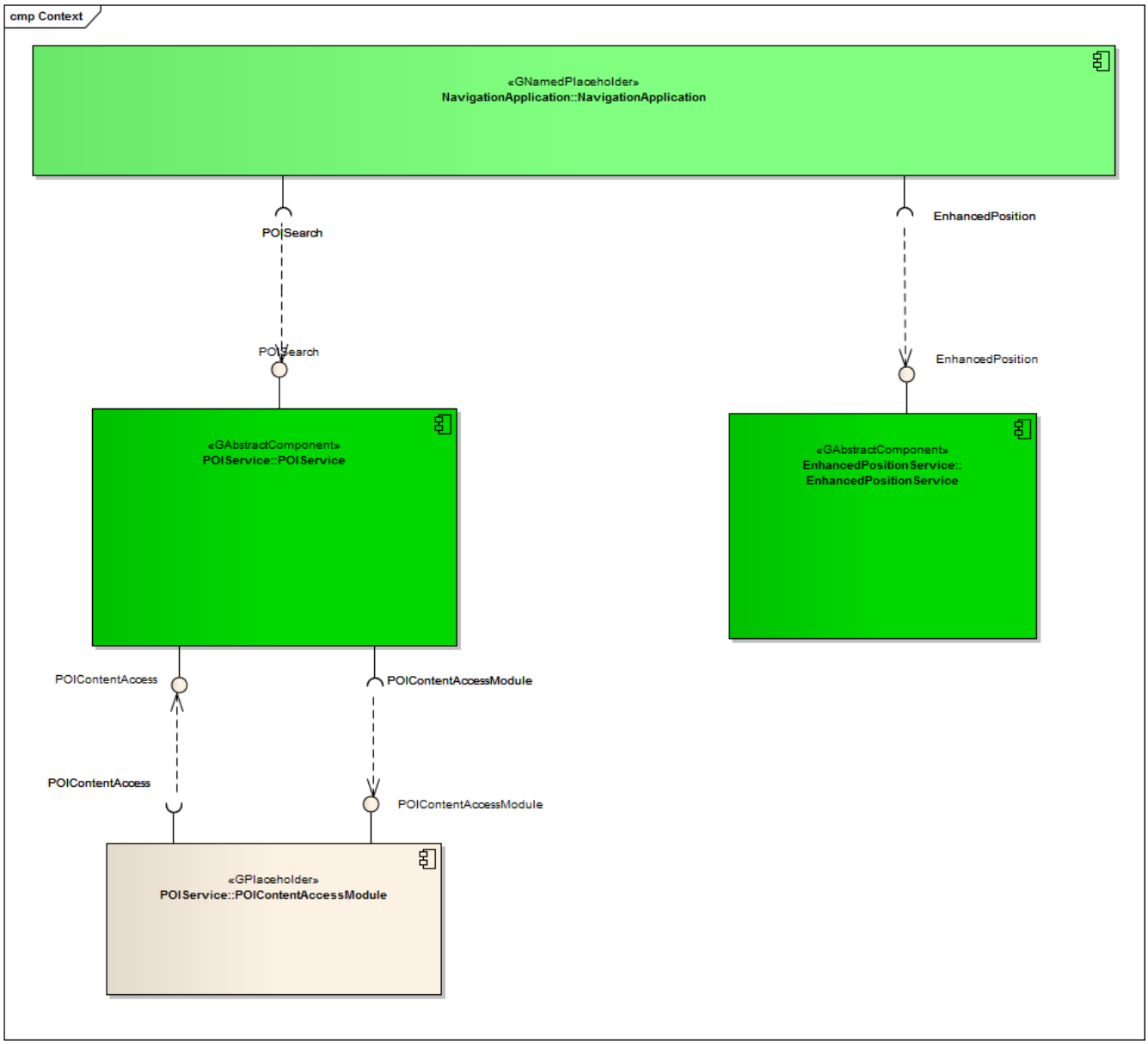
4.2 Interaction with other Components



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5 API

5.1 Git Repository

The POIService interfaces can be found in the GENIVI Git repository at:
https://github.com/GENIVI/navigation/tree/master/api/franca/navigation/poiservice

5.2 Use Cases

5.2.1 POI Search

5.2.1.1 The HMI displays the list of POI categories

Description

The HMI retrieves the root category from the component (should be ALL_CATEGORIES).
The HMI retrieves the children categories of the root category.
For each child category, the HMI retrieves its children:
If there are no children, the HMI retrieves the category details from the component and displays its name as a searchable category.
It can also display its visual icon.
For each child found, the HMI retrieves the children again and then displays the category name if there are no children.

Error Management
Root category is not available.

Sequence diagram

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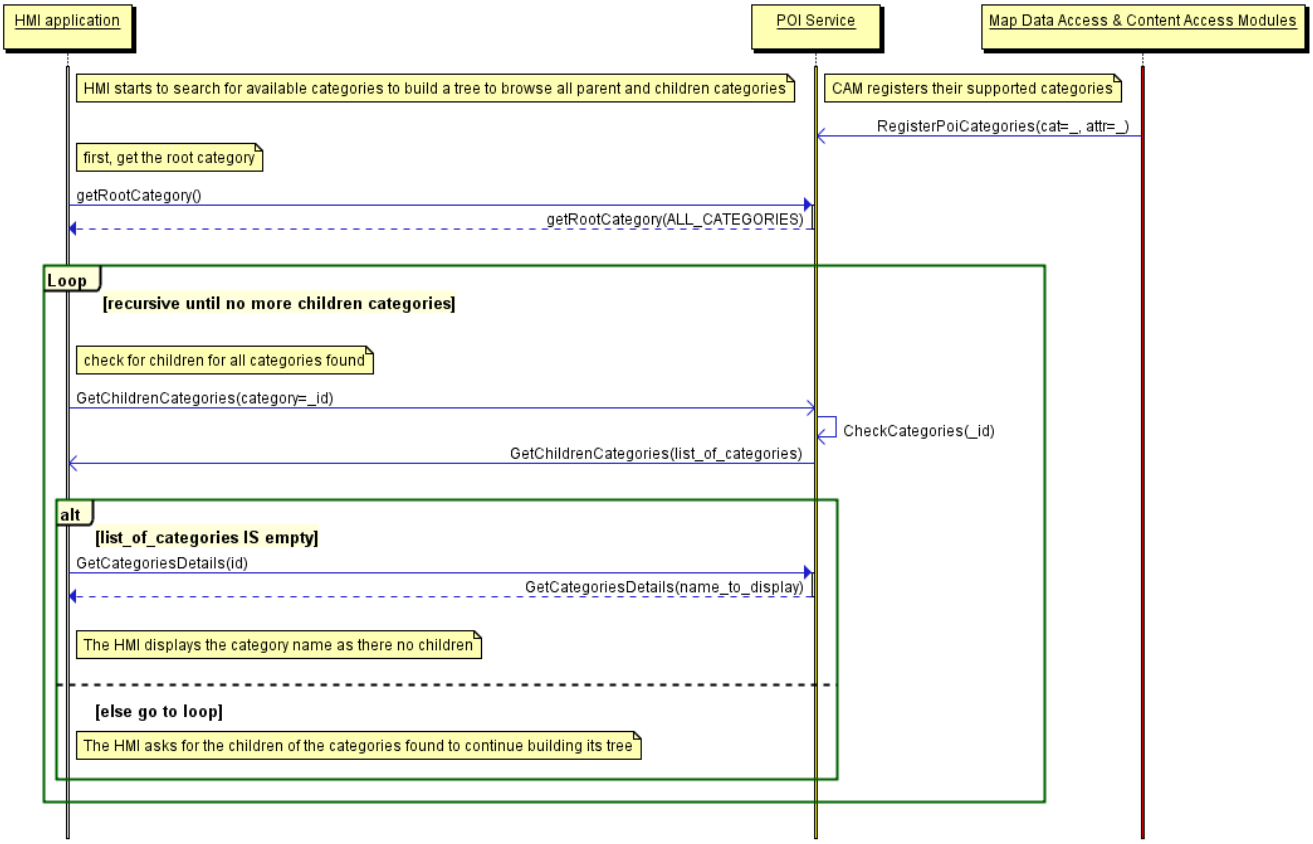

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5.2.1.2 The user searches for a restaurants around his/her position

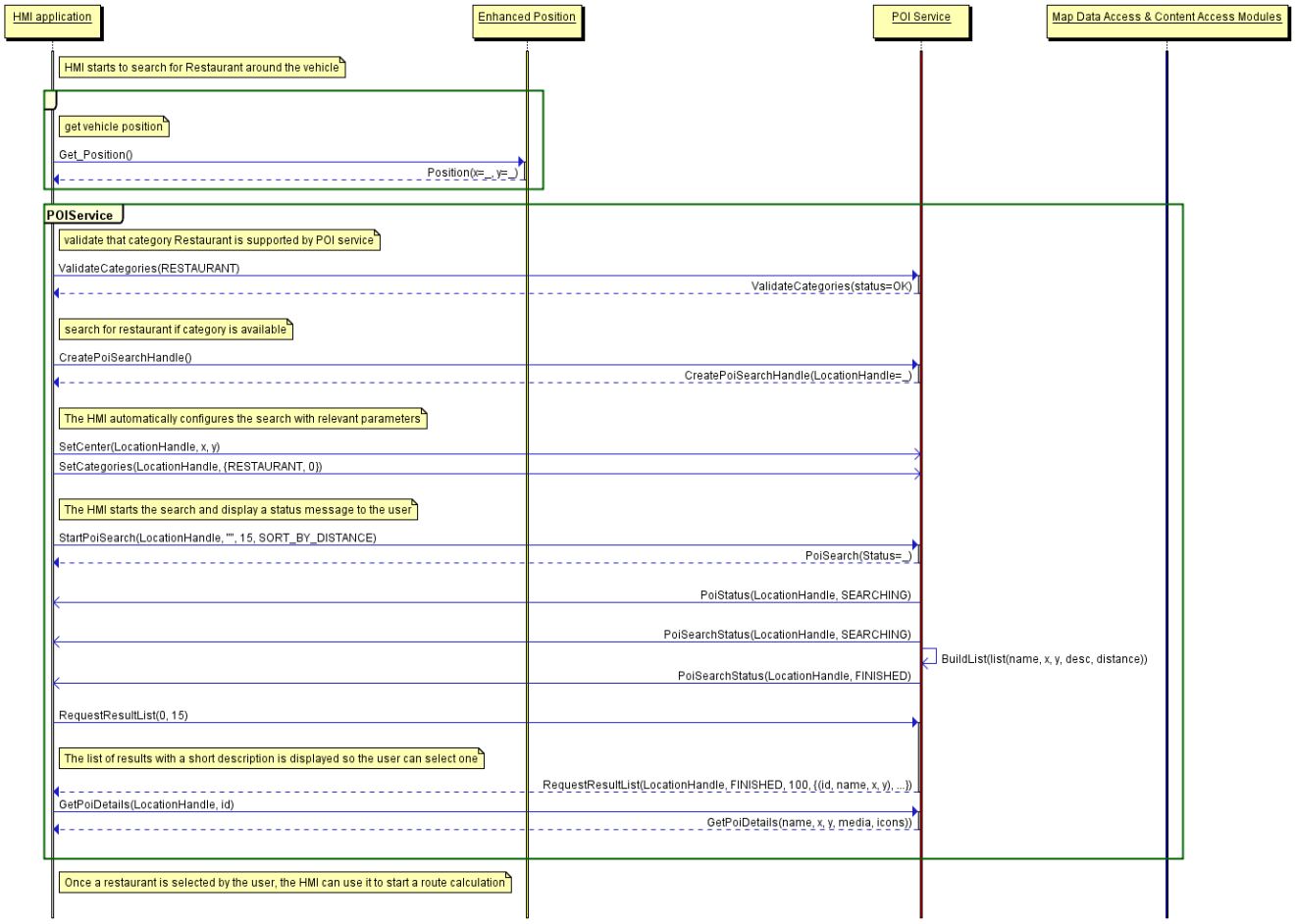
Description

The HMI retrieves the list of POI categories from the **search POI** API.
The HMI retrieves the vehicle position from the **enhanced position** API.
The HMI selects restaurant as a category and searches for POI around the vehicle position. It does not provide a search radius.
The POIService component defines a default radius for the category *restaurant*.
The POIService component searches for restaurant around the vehicle position within the local database.
The POIService component provides the list of restaurants sorted by distance. It also provides basic details.
The HMI browses the list and ask for detailed information for one of the POI.
The POIService component gets detailed information from the local database.
The HMI decides to drive to this restaurant.
The POIService component provides the location of the restaurant.

Error Management

If the local database access is down, the component returns an error.

Sequence diagram



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5.2.1.3

The user is running out of fuel and therefore creates a proximity alert around his/her position to receive a sound alert in case a new fuel station is detected

Preconditions

The fuel station is a category that is supported by the local database.

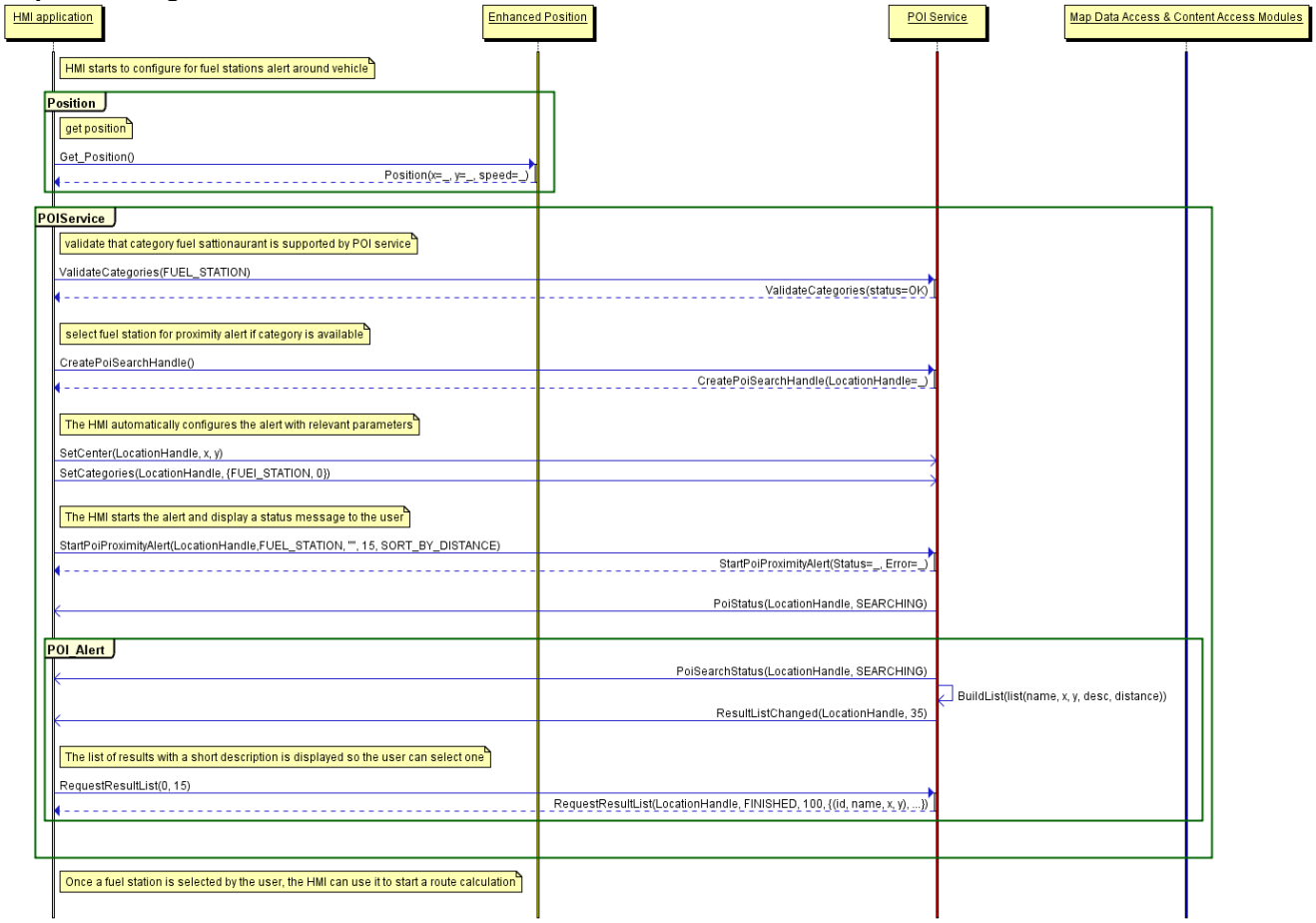
Description

The HMI configures a new POI proximity alert for fuel station around the vehicle.
The HMI retrieves the vehicle position and the vehicle speed from the **enhanced position** API.
The POIService component defines the search radius of 500 meters.
The POIService component gets the list of fuel stations around the current position from the local database using **map data access** API.
A new list of POI is sent to the HMI with all the fuel station that match the alert configuration.
The HMI plays a sound when a new (non-empty) list of POI is received.
As soon as new fuel stations are available or current fuel stations are out the search radius, a new list is provided.

Error Management

If the local database access is down, the component returns an error.

Sequence diagram



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5.2.2 POI Content Access

5.2.2.1 The user wants to get a list of car parks with free places around the current position sorted by price

Preconditions
A plug-in was already installed in the POI Service component to access an identified online service that provides car park information (price and places left) from the name and coordinates of a car park.

Description
The HMI retrieves the vehicle position from the **enhanced position** API.
The HMI retrieves the list of car parks with free places sorted by price around the position from the **search POI** API.
The POIService component get the list of car parks around the current position from the local database using **map data access** API.
For each car park name and location found, the POI Service uses **POI content access** API to get free places available and the park price from the plug-in (described below).
The POIService component stores the result (all POI found with dynamic content) into the persistent storage to manage the 'connection-down' error. This content is deleted when it gets too old.
The POIService component updates each car park attribute with available places and sorts the list by price.

Error Management
If the local database access is down, the component returns an error.
If the network connection to the online provider is down, the content access module tries to retrieve latest content from its persistent storage (if any). If this content is too old (depends on CAM policy), it returns an error.

Sequence diagram

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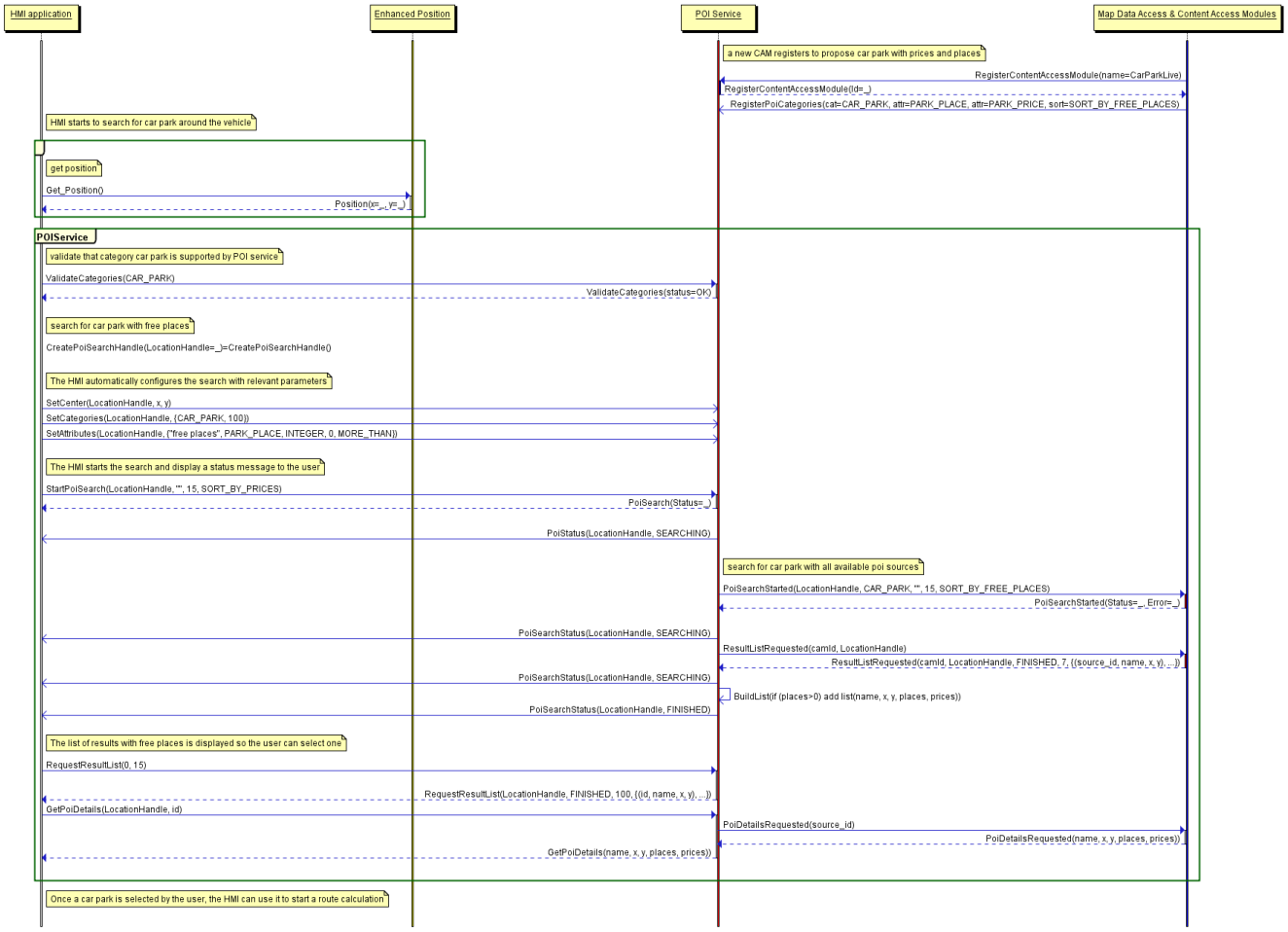

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5.2.2.2 The user wants to display on the map the location of all his/her Facebook friends around the vehicle position (the profile picture is used to mark a friend's position)

Preconditions
A plug-in was already installed in the POI Service component to access Facebook services and extract the profile picture and the current address from a list of friends.
This plug-in also registered a new POI category called **Facebook friends** and sub-category of predefined **User contact.**
The MapViewer API provides a way to create a custom location on the map with coordinates, name and icons.

Description
The HMI retrieves the vehicle position from the **enhanced position** API.
The HMI retrieves the list of Facebook friends from the **search POI** API around the vehicle position.
POI Service components gets the list of Facebook friends (with photo, name and coordinates) around the current position from the Facebook plug-in **POI content access** API.
The POI Service component stores the result into the persistent storage to manage the 'connection-down' error.
This content is deleted when it gets too old.
For each friend, the POI Service uses **MapViewer** API to update the map with icons.

Error Management
If the network connection to the online provider is down, the content access module tries to retrieve latest content from its persistent storage (if any). If this content is too old (1 hour), it returns an error.

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5.2.2.3 The user wants to navigate to his/her doctor (the one listed in his/her phone contact book) if the office is open

Preconditions
A plug-in was already installed in the POI Service component to access a doctor's web site. The plug-in extracts the opening times and the doctor´s office address.
A plug-in was already installed in the POI Service component to access the user´s smartphone. The plug-in extracts a contact list from a group of names (friend, family, doctor, ...).
This plug-in created a new POI category called **My Phone Groups** with sub-categories like **friend** or **doctor.**

Description
The HMI retrieves the doctor´s office coordinates and opening times from the user's phone POI group doctor with the **search POI** API.
The POIService component gets the doctor´s office opening time and coordinates from the smartphone contacts plug-in using the **POI content access** API.
The HMI validates that the opening times match current time and start a route calculation.
The POIService component gets the doctor´s office coordinates from previously stored data.
The POIService uses **NavigationCore** API to start a route calculation from vehicle position to doctor's office.

Error Management
If the network connection to the online provider is down, the content access module returns an error.

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5.2.2.4 The user wants to watch a movie. The user requests a list of movies projected in nearby cinemas with description, cinema name and price, all sorted by start time

Preconditions

A plug-in was already installed in the POI Service component to access an identified online service that provides cinema information (list of movies, opening times, prices and movies information like review and trailer link) from the name and coordinates of a cinema.

Description

The HMI retrieves the vehicle position from the **enhanced position** API.
The HMI retrieves the list of cinema with movies that starts in less than 1 hour around the current position from the **search POI** API. The list is sorted by start time.
The POIService component gets the list of cinemas around the current position from the local database using the **map data access** API.
For each cinema name and location found, the POI Service uses **POI content access** API to get list of movies available with start time, movie information and price from the plug-in (described below).
The HMI display the list of movies sorted by start time (the sooner the first) with a quick description, a review, the price and the cinema name.
The rear seat HMI downloads a video from movie trailer link and displays it.
Depending upon the selected film, the POIServicecomponent gets the cinema coordinates from previously stored data.
The POIService uses **NavigationCore** API to start a route calculation from vehicle position to the cinema.

Error Management

If the local database access is down, the component returns an error
If the network connection to the online provider is down, the content access module tries to retrieve latest content from its persistent storage (if any). If this content is too old (20 minutes), it returns an error.

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5.2.2.5 The user creates a proximity alert along its route to receive a sound in case of dangerous area

Preconditions

A plug-in was already installed in the POI Service component to access an identified online service that provides dangerous area content (road conditions, weather, traffic jam, men at work) around a location.
The dangerous area is a category that is supported by the local database.

Description

The HMI configures a new POI proximity alert for dangerous events in front of the vehicle.
The HMI retrieves the vehicle position and speed from the **enhanced position** API.
The POI component defines the search radius in front of vehicle position depending on the category and the vehicle speed.
The POIService component gets the list of dangerous areas around the current position from the local database using the **map data access** API.
The POIService component gets the list of dangerous events around the position from content access module according to its defined radius and criteria.
The POIService component updates local events with dynamic contents if necessary.
A new list of POI is sent to the HMI with all the events (from local and from CAM) that match the alert configuration.
The HMI plays a sound when a new (non-empty) list of POI is received.

Error Management

If the local database access is down, the component returns an error.
If the network connection to the online provider is down, the content access module tries to retrieve latest content from its persistent storage (if any). If this content is too old (more than 2 minutes), it returns an error.

Sequence diagram

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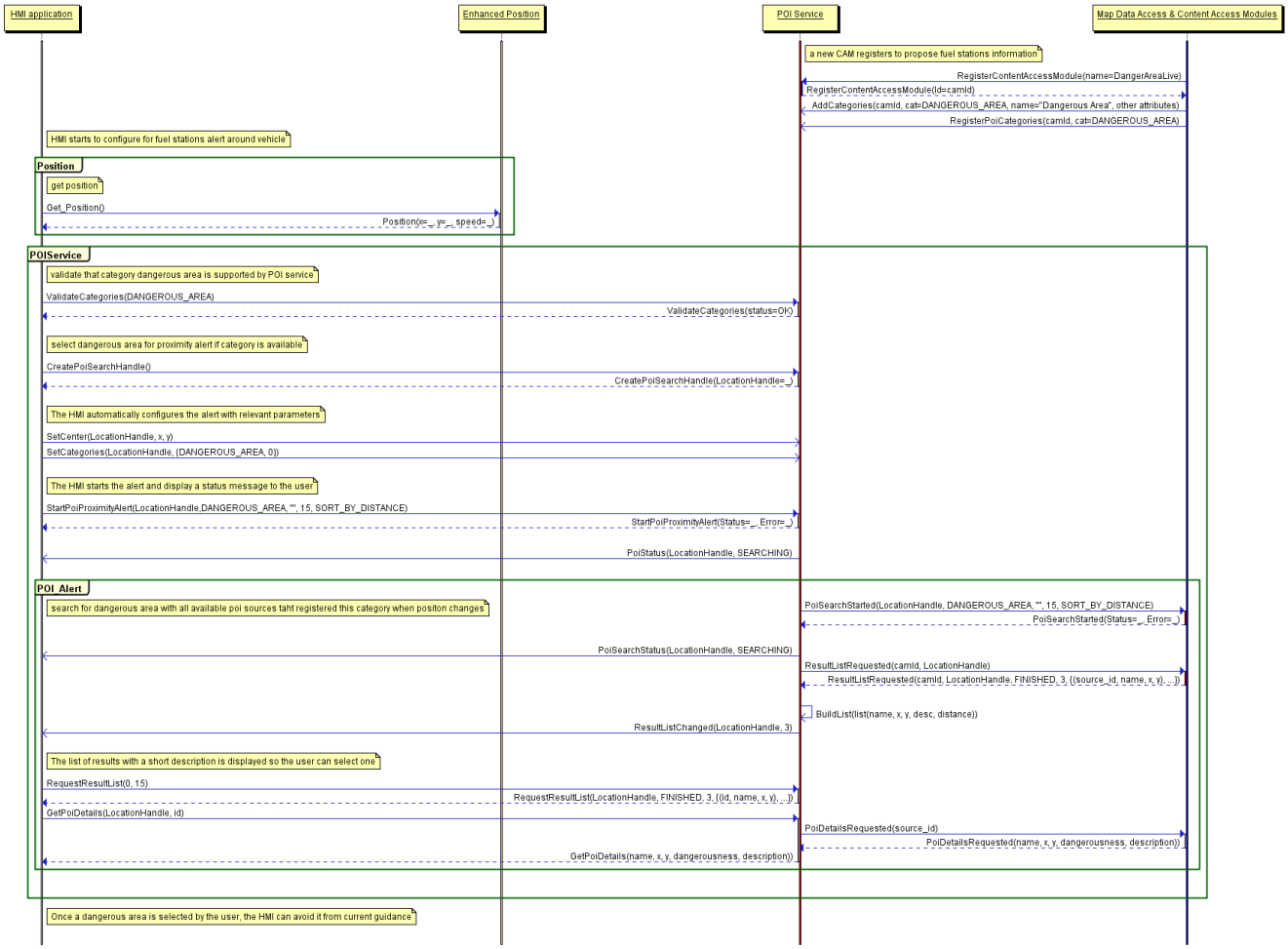

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5.3 Interfaces

The following pages describe the interfaces of the POIService API.

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NavigationCore

Generated by Doxygen 1.8.11

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Modules

- genivi

1.2 org::genivi Module Reference

Modules

- navigation

1.3 org::genivi::navigation Module Reference

Modules

- module navigationcore

1.4 org::genivi::navigation::navigationcore Module Reference

Classes

- interface Configuration
- interface Configuration_client
- interface Guidance
- interface Guidance_client
- interface LocationInput
- interface LocationInput_client
- interface MapMatchedPosition
- interface MapMatchedPosition_client
- interface NavigationCoreTypes
- interface Routing
- interface Routing_client
- interface Session
- interface Session_client

2 Class Documentation

2.1 org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue Union Reference

Public Attributes

- String addressField
- Int16 offset
- Timestamp timestamp
- MatchMode matchMode
- RoadShield[ ] roadShields

2.1.1 Member Data Documentation

2.1.1.1 String org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::addressField

2.1.1.2 MatchMode org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::matchMode

2.1.1.3 Int16 org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::offset

2.1.1.4 RoadShield [ ] org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::roadShields

2.1.1.5 Timestamp org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::timestamp

The documentation for this union was generated from the following file:

- MapMatchedPosition.fidl

2.2 org::genivi::navigation::navigationcore::LocationInput::AddressValue Union Reference

Public Attributes

- Int32 intValue
- Double doubleValue
- String stringValue
- Coordinate3D coordinate3DValue
- UInt8[ ] internalData
- RoadShield[ ] roadShields

2.2.1 Member Data Documentation

2.2.1.1 Coordinate3D org::genivi::navigation::navigationcore::LocationInput::AddressValue::coordinate3DValue

2.2.1.2 Double org::genivi::navigation::navigationcore::LocationInput::AddressValue::doubleValue

2.2.1.3 UInt8 [ ] org::genivi::navigation::navigationcore::LocationInput::AddressValue::internalData

2.2.1.4 Int32 org::genivi::navigation::navigationcore::LocationInput::AddressValue::intValue

2.2.1.5 RoadShield [ ] org::genivi::navigation::navigationcore::LocationInput::AddressValue::roadShields

2.2.1.6 String org::genivi::navigation::navigationcore::LocationInput::AddressValue::stringValue

The documentation for this union was generated from the following file:

- LocationInput.fidl

2.3 org::genivi::navigation::navigationcore::Routing::BlockedRouteElement Struct Reference

Public Attributes

- UInt32 offset
- UInt32 length

2.3.1 Member Data Documentation

2.3.1.1 UInt32 org::genivi::navigation::navigationcore::Routing::BlockedRouteElement::length

2.3.1.2 UInt32 org::genivi::navigation::navigationcore::Routing::BlockedRouteElement::offset

The documentation for this struct was generated from the following file:

- Routing.fidl

2.4 org::genivi::navigation::navigationcore::Routing::ConditionPreference Struct Reference

Public Attributes

- PreferenceMode mode
- ConditionPreferenceSource source

2.4.1 Member Data Documentation

2.4.1.1 PreferenceMode org::genivi::navigation::navigationcore::Routing::ConditionPreference::mode

2.4.1.2 ConditionPreferenceSource org::genivi::navigation::navigationcore::Routing::ConditionPreference::source

The documentation for this struct was generated from the following file:

- Routing.fidl

2.5 org::genivi::navigation::navigationcore::Configuration Interface Reference

Public Types

- enum Settings {
  INVALID = 0, UNITS_OF_MEASUREMENT = 48, LOCALE = 37, TIME_FORMAT = 3,
  COORDINATES_FORMAT = 6 }
- enum UnitsOfMeasurementAttribute { INVALID = 0, LENGTH = 49 }
- enum UnitsOfMeasurementValue {
  METER = 50, MILE = 51, KM = 52, YARD = 53,
  FOOT = 54 }
- enum CoordinatesFormat { INVALID = 0, DEGREES = 1, MINUTES = 2, SECONDS = 3 }
- typedef UnitsOfMeasurementValue[ ] UnitsOfMeasurementListValue

Public Member Functions

- void getVersion (out Version version)
- void setLocale (in String languageCode, in String countryCode, in String scriptCode)
- void getLocale (out String languageCode, out String countryCode, out String scriptCode)
- void getSupportedLocales (out Locale localeList)
- void setTimeFormat (in TimeFormat format)
- void getTimeFormat (out TimeFormat format)
- void getSupportedTimeFormats (out TimeFormat timeFormatList)
- void setCoordinatesFormat (in CoordinatesFormat coordinatesFormat)
- void getCoordinatesFormat (out CoordinatesFormat coordinatesFormat)
- void getSupportedCoordinatesFormat (out CoordinatesFormat coordinatesFormatList)
- void setUnitsOfMeasurement (in UnitsOfMeasurement unitsOfMeasurement)
- void getUnitsOfMeasurement (out UnitsOfMeasurement unitsOfMeasurement)
- void getSupportedUnitsOfMeasurement (out UnitsOfMeasurementList unitsOfMeasurementList)

Public Attributes

- map_UnitsOfMeasurement UnitsOfMeasurementAttribute =>UnitsOfMeasurementValue
- map_UnitsOfMeasurementList UnitsOfMeasurementAttribute =>UnitsOfMeasurementListValue

2.5.1 Detailed Description

#comment : This interface offers methods that implement the navigation core configuration functionality of a navigation system.

2.5.2 Member Typedef Documentation

2.5.2.1 typedef UnitsOfMeasurementValue [ ] org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementListValue

2.5.3 Member Enumeration Documentation

2.5.3.1 enum org::genivi::navigation::navigationcore::Configuration::CoordinatesFormat

Enumerator

INVALID

DEGREES

MINUTES

SECONDS

2.5.3.2 enum org::genivi::navigation::navigationcore::Configuration::Settings

Enumerator

INVALID

UNITS_OF_MEASUREMENT

LOCALE

TIME_FORMAT

COORDINATES_FORMAT

2.5.3.3 enum org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementAttribute

Enumerator

INVALID

LENGTH

2.5.3.4 enum org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementValue

Enumerator

METER

MILE

KM

YARD

FOOT

2.5.4 Member Function Documentation

2.5.4.1 void org::genivi::navigation::navigationcore::Configuration::getCoordinatesFormat (out CoordinatesFormat *coordinatesFormat*)

#comment : Get the coordinates format .

2.5.4.2 void org::genivi::navigation::navigationcore::Configuration::getLocale (out String *languageCode,* out String *countryCode,* out String *scriptCode*)

#comment : Get the current language set .

2.5.4.3 void org::genivi::navigation::navigationcore::Configuration::getSupportedCoordinatesFormat (out CoordinatesFormat *coordinatesFormatList*)

#comment : Get the supported set of coordinates format .

2.5.4.4 void org::genivi::navigation::navigationcore::Configuration::getSupportedLocales (out Locale *localeList*)

#comment : Get the supported set of locales .

2.5.4.5 void org::genivi::navigation::navigationcore::Configuration::getSupportedTimeFormats (out TimeFormat *timeFormatList*)

#comment : Get the supported set of time format .

2.5.4.6 void org::genivi::navigation::navigationcore::Configuration::getSupportedUnitsOfMeasurement (out UnitsOfMeasurementList *unitsOfMeasurementList*)

#comment : Get the supported set of units of measurement .

2.5.4.7 void org::genivi::navigation::navigationcore::Configuration::getTimeFormat (out TimeFormat *format*)

#comment : Get the current time format .

2.5.4.8 void org::genivi::navigation::navigationcore::Configuration::getUnitsOfMeasurement (out UnitsOfMeasurement *unitsOfMeasurement*)

#comment : Get the units of measurement .

2.5.4.9 void org::genivi::navigation::navigationcore::Configuration::getVersion (out Version *version*)

#comment : This method returns the API version .

2.5.4.10 void org::genivi::navigation::navigationcore::Configuration::setCoordinatesFormat (in CoordinatesFormat *coordinatesFormat*)

#comment : Set the coordinates format.

2.5.4.11 void org::genivi::navigation::navigationcore::Configuration::setLocale (in String *languageCode,* in String *countryCode,* in String *scriptCode*)

#comment : Set the current language set. If the language is not supported, the default details will be returned in the native language.

2.5.4.12 void org::genivi::navigation::navigationcore::Configuration::setTimeFormat (in TimeFormat *format*)

#comment : Set the time format.

2.5.4.13 void org::genivi::navigation::navigationcore::Configuration::setUnitsOfMeasurement (in UnitsOfMeasurement *unitsOfMeasurement*)

#comment : Set the units of measurement .

2.5.5 Member Data Documentation

2.5.5.1 map_UnitsOfMeasurement org::genivi::navigation::navigationcore::Configuration::UnitsOf↩ MeasurementAttribute =>UnitsOfMeasurementValue

2.5.5.2 map_UnitsOfMeasurementList org::genivi::navigation::navigationcore::Configuration::UnitsOf↩ MeasurementAttribute =>UnitsOfMeasurementListValue

The documentation for this interface was generated from the following file:

- Configuration.fidl

2.6 org::genivi::navigation::navigationcore::Configuration_client Interface Reference

Public Member Functions

- void configurationChanged (in Settings changedSettings)

2.6.1 Member Function Documentation

2.6.1.1 void org::genivi::navigation::navigationcore::Configuration_client::configurationChanged (in Settings *changedSettings*)

broadcast #comment : ConfigurationChanged = This signal is sent to the clients when one or more configuration settings changes

The documentation for this interface was generated from the following file:

- Configuration.fidl

2.7 org::genivi::navigation::navigationcore::Guidance Interface Reference

Classes

- struct LaneInfo
- struct Maneuver
- union ManeuverDataValue
- struct ManeuverItem
- struct WaypointStruct

Public Types

- enum Side : BasicEnum { LEFT = 128, RIGHT = 131, NOT_AVAILABLE = 2 }
- enum LaneType : BasicEnum {
  LANE_INFO_BITMASK_STRAIGHT = 1, LANE_INFO_BITMASK_SLIGHTRIGHT = 2, LANE_INFO_BITM↩
  ASK_RIGHT = 4, LANE_INFO_BITMASK_SHARPRIGHT = 8,
  LANE_INFO_BITMASK_RIGHTUTURN = 16, LANE_INFO_BITMASK_SLIGHTLEFT = 32, LANE_INFO_↩
  BITMASK_LEFT = 64, LANE_INFO_BITMASK_SHARPLEFT = 128,
  LANE_INFO_BITMASK_LEFTUTURN = 256 }
- enum PromptMode : BasicEnum { DISABLED_PROMPT = 65, AUTOMATIC_PROMPT = 66, MANUAL_P↩
  ROMPT = 67 }
- enum ManeuverPhase : BasicEnum {
  CRUISE = 80, MANEUVER_APPEARED = 81, PRE_ADVICE = 82, ADVICE = 83,
  PASSED = 84 }
- enum GuidanceStatus : BasicEnum { ACTIVE = 96, INACTIVE = 97 }
- enum ManeuverType : BasicEnum {
  STRAIGHT_ON = 112, CROSSROAD = 113, ROUNDABOUT = 114, HIGHWAY_ENTER = 115,
  HIGHWAY_EXIT = 116, FOLLOW_SPECIFIC_LANE = 117, DESTINATION = 118, WAYPOINT = 119,
  TURN = 120, BIFURCATION = 121 }
- enum ManeuverDirection : BasicEnum {
  STRAIGHT = 127, LEFT = 128, SLIGHT_LEFT = 129, HARD_LEFT = 130,
  RIGHT = 131, SLIGHT_RIGHT = 132, HARD_RIGHT = 133, UTURN_RIGHT = 134,
  UTURN_LEFT = 135 }
- enum CalculationMode : BasicEnum { ALL_MANUAL = 144, ALL_AUTOMATIC = 145, TRAFFIC_MANUAL = 146, OFF_ROUTE_MANUAL = 147 }
- enum RoadProperty : BasicEnum { DEFAULT = 65534, TOLL_ROADS = 369 }
- enum RouteChangedCause : BasicEnum { TRAFFIC = 528, OFF_ROUTE = 529, MANUAL = 530 }
- enum ManeuverDirectionType : BasicEnum { DIRECTION = 576, EXIT_NUMBER = 577, ROAD_FORM = 578, LANE_INFO = 579 }

- enum LaneDivider : BasicEnum {
  DIVIDER_UNDEFINED = 592, DIVIDER_INTERRUPTEDLONG = 593, DIVIDER_INTERRUPTEDSHORT = 594, DIVIDER_SOLIDSINGLE = 595,
  DIVIDER_SOLIDDOUBLE = 596, DIVIDER_SOLIDINTERRUPTED = 597, DIVIDER_INTERRUPTEDSOLID = 598 }
- enum RoadForm : BasicEnum { ROAD_REGULAR = 561, ROAD_HIGHWAY_MOTORWAY = 562, ROAD_FERRY = 563 }
- enum ManeuverDataAttribute : BasicEnum {
  LENGTH = 608, DIRECTION = 576, EXIT_NUMBER = 577, ROAD_FORM = 578,
  LANE_INFO = 579, COORDINATE = 613 }

Public Member Functions

- void getVersion (out Version version)
- void startGuidance (in Handle sessionHandle, in Handle routeHandle)
- void stopGuidance (in Handle sessionHandle)
- void setVoiceGuidance (in Boolean activate, in String voice)
- void getGuidanceDetails (out Boolean voiceGuidance, out Boolean vehicleOnTheRoad, out Boolean isDestinationReached, out ManeuverPhase maneuver)
- void playVoiceManeuver ()
- void getWaypointInformation (in UInt16 requestedNumberOfWaypoints, out UInt16 numberOfWaypoints, out WaypointStruct waypointsList)
- void getDestinationInformation (out UInt32 offset, out UInt32 travelTime, out Int32 direction, out Side side, out Int16 timeZone, out Int16 daylightSavingTime)
- void getManeuversList (in UInt16 requestedNumberOfManeuvers, in UInt32 maneuverOffset, out UInt16 numberOfManeuvers, out Maneuver maneuversList)
- void setRouteCalculationMode (in Handle sessionHandle, in CalculationMode routeCalculationMode)
- void skipNextManeuver (in Handle sessionHandle)
- void getGuidanceStatus (out GuidanceStatus guidanceStatus, out Handle routeHandle)
- void setVoiceGuidanceSettings (in PromptMode promptMode)
- void getVoiceGuidanceSettings (out PromptMode promptMode)

Public Attributes

- map_ManeuverData ManeuverDataAttribute =>ManeuverDataValue

2.7.1 Detailed Description

#comment : Guidance = This interface offers functions that implement the route-guidance functionality of a navigation system

2.7.2 Member Enumeration Documentation

2.7.2.1 enum org::genivi::navigation::navigationcore::Guidance::CalculationMode : BasicEnum

Enumerator

ALL_MANUAL

ALL_AUTOMATIC

TRAFFIC_MANUAL

OFF_ROUTE_MANUAL

2.7.2.2 enum org::genivi::navigation::navigationcore::Guidance::GuidanceStatus : BasicEnum

Enumerator

ACTIVE

INACTIVE

2.7.2.3 enum org::genivi::navigation::navigationcore::Guidance::LaneDivider : BasicEnum

Enumerator

DIVIDER_UNDEFINED

DIVIDER_INTERRUPTEDLONG

DIVIDER_INTERRUPTEDSHORT

DIVIDER_SOLIDSINGLE

DIVIDER_SOLIDDOUBLE

DIVIDER_SOLIDINTERRUPTED

DIVIDER_INTERRUPTEDSOLID

2.7.2.4 enum org::genivi::navigation::navigationcore::Guidance::LaneType : BasicEnum

Enumerator

LANE_INFO_BITMASK_STRAIGHT

LANE_INFO_BITMASK_SLIGHTRIGHT

LANE_INFO_BITMASK_RIGHT

LANE_INFO_BITMASK_SHARPRIGHT

LANE_INFO_BITMASK_RIGHTUTURN

LANE_INFO_BITMASK_SLIGHTLEFT

LANE_INFO_BITMASK_LEFT

LANE_INFO_BITMASK_SHARPLEFT

LANE_INFO_BITMASK_LEFTUTURN

2.7.2.5 enum org::genivi::navigation::navigationcore::Guidance::ManeuverDataAttribute : BasicEnum

Enumerator

LENGTH

DIRECTION

EXIT_NUMBER

ROAD_FORM

LANE_INFO

COORDINATE

2.7.2.6 enum org::genivi::navigation::navigationcore::Guidance::ManeuverDirection : BasicEnum

Enumerator

STRAIGHT

LEFT

SLIGHT_LEFT

HARD_LEFT

RIGHT

SLIGHT_RIGHT

HARD_RIGHT

UTURN_RIGHT

UTURN_LEFT

2.7.2.7 enum org::genivi::navigation::navigationcore::Guidance::ManeuverDirectionType : BasicEnum

Enumerator

DIRECTION

EXIT_NUMBER

ROAD_FORM

LANE_INFO

2.7.2.8 enum org::genivi::navigation::navigationcore::Guidance::ManeuverPhase : BasicEnum

Enumerator

CRUISE

MANEUVER_APPEARED

PRE_ADVICE

ADVICE

PASSED

2.7.2.9 enum org::genivi::navigation::navigationcore::Guidance::ManeuverType : BasicEnum

Enumerator

STRAIGHT_ON

CROSSROAD

ROUNDABOUT

HIGHWAY_ENTER

HIGHWAY_EXIT

FOLLOW_SPECIFIC_LANE

DESTINATION

WAYPOINT

TURN

BIFURCATION

2.7.2.10 enum org::genivi::navigation::navigationcore::Guidance::PromptMode : BasicEnum

Enumerator

DISABLED_PROMPT

AUTOMATIC_PROMPT

MANUAL_PROMPT

2.7.2.11 enum org::genivi::navigation::navigationcore::Guidance::RoadForm : BasicEnum

Enumerator

ROAD_REGULAR

ROAD_HIGHWAY_MOTORWAY

ROAD_FERRY

2.7.2.12 enum org::genivi::navigation::navigationcore::Guidance::RoadProperty : BasicEnum

Enumerator

DEFAULT

TOLL_ROADS

2.7.2.13 enum org::genivi::navigation::navigationcore::Guidance::RouteChangedCause : BasicEnum

Enumerator

TRAFFIC

OFF_ROUTE

MANUAL

2.7.2.14 enum org::genivi::navigation::navigationcore::Guidance::Side : BasicEnum

Enumerator

LEFT

RIGHT

NOT_AVAILABLE

2.7.3 Member Function Documentation

2.7.3.1 void org::genivi::navigation::navigationcore::Guidance::getDestinationInformation (out UInt32 *offset,* out UInt32 *travelTime,* out Int32 *direction,* out Side *side,* out Int16 *timeZone,* out Int16 *daylightSavingTime*)

#comment : This method retrieves the information on the final destination

2.7.3.2 void org::genivi::navigation::navigationcore::Guidance::getGuidanceDetails (out Boolean *voiceGuidance,* out Boolean *vehicleOnTheRoad,* out Boolean *isDestinationReached,* out ManeuverPhase *maneuver*)

#comment : getGuidanceDetails = This method retrieves guidance information

2.7.3.3 void org::genivi::navigation::navigationcore::Guidance::getGuidanceStatus (out GuidanceStatus *guidanceStatus,* out Handle *routeHandle*)

#comment : getGuidanceStatus = This method retrieves the guidance status

2.7.3.4 void org::genivi::navigation::navigationcore::Guidance::getManeuversList (in UInt16 *requestedNumberOfManeuvers,* in UInt32 *maneuverOffset,* out UInt16 *numberOfManeuvers,* out Maneuver *maneuversList*)

#comment : getManeuversList = This method retrieves the list of next maneuvers

2.7.3.5 void org::genivi::navigation::navigationcore::Guidance::getVersion (out Version *version*)

#comment : getVersion = This method returns the API version implemented by the server application

2.7.3.6 void org::genivi::navigation::navigationcore::Guidance::getVoiceGuidanceSettings (out PromptMode *promptMode*)

#comment : getVoiceGuidanceSettings = This method returns the used voice guidance settings

2.7.3.7 void org::genivi::navigation::navigationcore::Guidance::getWaypointInformation (in UInt16 *requestedNumberOfWaypoints,* out UInt16 *numberOfWaypoints,* out WaypointStruct *waypointsList*)

#comment : getWaypointInformation = This method retrieves the information on the remaining way points of the route. A point can be the final destination as well as a stage defined by the user. The returned waypoints are ordered by their 'number'.

2.7.3.8 void org::genivi::navigation::navigationcore::Guidance::playVoiceManeuver ( )

#comment : playVoiceManeuver = This method plays or repeats the last voice guidance

2.7.3.9 void org::genivi::navigation::navigationcore::Guidance::setRouteCalculationMode (in Handle *sessionHandle,* in CalculationMode *routeCalculationMode*)

#comment : setRouteCalculationMode = This method configures the way the navigation application wants the navigation core to behave of reroute trigger

2.7.3.10 void org::genivi::navigation::navigationcore::Guidance::setVoiceGuidance (in Boolean *activate,* in String *voice*)

#comment : setVoiceGuidance = This method switch on/off the voice guidance

2.7.3.11 void org::genivi::navigation::navigationcore::Guidance::setVoiceGuidanceSettings (in PromptMode *promptMode*)

#comment : setVoiceGuidanceSettings = This method sets the voice guidance settings

2.7.3.12 void org::genivi::navigation::navigationcore::Guidance::skipNextManeuver (in Handle *sessionHandle*)

#comment : skipNextManeuver = This method allows to jump behind the current maneuver

2.7.3.13 void org::genivi::navigation::navigationcore::Guidance::startGuidance (in Handle *sessionHandle,* in Handle *routeHandle*)

#comment : startGuidance = This method starts the guidance for a given route The guidanceStatus will change to ACTIVE

2.7.3.14 void org::genivi::navigation::navigationcore::Guidance::stopGuidance (in Handle *sessionHandle*)

#comment : stopGuidance = This method stops the guidance The guidanceStatus will change to INACTIVE

2.7.4 Member Data Documentation

2.7.4.1 map_ManeuverData org::genivi::navigation::navigationcore::Guidance::ManeuverDataAttribute =>ManeuverDataValue

The documentation for this interface was generated from the following file:

- Guidance.fidl

2.8 org::genivi::navigation::navigationcore::Guidance_client Interface Reference

Public Member Functions

- void vehicleLeftTheRoadNetwork ()
- void guidanceStatusChanged (in GuidanceStatus guidanceStatus, in Handle routeHandle)
- void waypointReached (in Boolean isDestination)
- void maneuverChanged (in ManeuverPhase maneuver)
- void positionOnRouteChanged (in UInt32 offsetOnRoute)
- void vehicleLeftTheRoute ()
- void positionToRouteChanged (in UInt32 distance, in Int32 direction)
- void activeRouteChanged (in RouteChangedCause changeCause)

2.8.1 Member Function Documentation

2.8.1.1 void org::genivi::navigation::navigationcore::Guidance_client::activeRouteChanged (in RouteChangedCause *changeCause*)

broadcast #comment : activeRouteChanged = This signal is emitted when the active route changes

2.8.1.2 void org::genivi::navigation::navigationcore::Guidance_client::guidanceStatusChanged (in GuidanceStatus *guidanceStatus,* in Handle *routeHandle*)

broadcast #comment : guidanceStatusChanged = This signal is emitted when the guidance status changes

2.8.1.3 void org::genivi::navigation::navigationcore::Guidance_client::maneuverChanged (in ManeuverPhase *maneuver*)

broadcast #comment : This signal is emitted each time a maneuver event is going

2.8.1.4 void org::genivi::navigation::navigationcore::Guidance_client::positionOnRouteChanged (in UInt32 *offsetOnRoute*)

broadcast #comment : positionOnRouteChanged = This signal is emitted when the position on the route changes

2.8.1.5 void org::genivi::navigation::navigationcore::Guidance_client::positionToRouteChanged (in UInt32 *distance,* in Int32 *direction*)

broadcast #comment : positionToRouteChanged = This signal is emitted when the vehicle is off-the-road network and either the heading or the distance (or both) to the closest point on the active route changes

2.8.1.6 void org::genivi::navigation::navigationcore::Guidance_client::vehicleLeftTheRoadNetwork ( )

broadcast #comment : vehicleLeftTheRoadNetwork = This signal is emitted when the vehicle exits from the road network

2.8.1.7 void org::genivi::navigation::navigationcore::Guidance_client::vehicleLeftTheRoute ( )

broadcast #comment : vehicleLeftTheRoute = This signal is emitted when the vehicle has left the route

2.8.1.8 void org::genivi::navigation::navigationcore::Guidance_client::waypointReached (in Boolean *isDestination*)

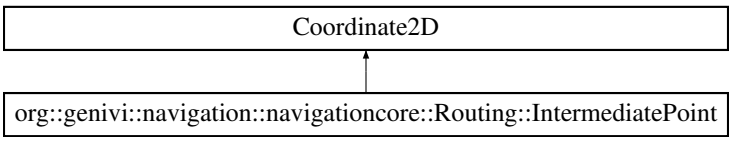
broadcast #comment : waypointReached = This signal is emitted when the destination is reached

The documentation for this interface was generated from the following file:

- Guidance.fidl

2.9 org::genivi::navigation::navigationcore::Routing::IntermediatePoint Struct Reference

Inheritance diagram for org::genivi::navigation::navigationcore::Routing::IntermediatePoint:



Public Attributes

- WayPointType type

2.9.1 Member Data Documentation

2.9.1.1 WayPointType org::genivi::navigation::navigationcore::Routing::IntermediatePoint::type

The documentation for this struct was generated from the following file:

- Routing.fidl

2.10 org::genivi::navigation::navigationcore::Guidance::LaneInfo Struct Reference

Public Attributes

- UInt32 laneIndex
- ByteBuffer laneDirections
- LaneType directionToFollow
- LaneDivider divider

2.10.1 Member Data Documentation

2.10.1.1 LaneType org::genivi::navigation::navigationcore::Guidance::LaneInfo::directionToFollow

2.10.1.2 LaneDivider org::genivi::navigation::navigationcore::Guidance::LaneInfo::divider

2.10.1.3 ByteBuffer org::genivi::navigation::navigationcore::Guidance::LaneInfo::laneDirections

2.10.1.4 UInt32 org::genivi::navigation::navigationcore::Guidance::LaneInfo::laneIndex

The documentation for this struct was generated from the following file:

- Guidance.fidl

2.11 org::genivi::navigation::navigationcore::LocationInput Interface Reference

Classes

- union AddressValue

Public Types

- enum SearchStatus : BasicEnum { SEARCHING = 193, FINISHED = 194 }
- enum ValidationType : BasicEnum { OK = 208, UNKNOWN = 209, AMBIGUOUS = 210, INCONSISTENT = 211 }
- enum AddressAttribute : GeoLocalizedEnum {
  COUNTRY = 166, COUNTRYCODE = 179, STATE = 167, CITY = 168,
  STREET = 170, ROAD_NUMBER = 182, HOUSENUMBER = 171, HOUSENAME = 180,
  CROSSING = 172, DISTRICT = 173, PHONENUMBER = 174, POINAME = 175,
  TOWNCENTER = 176, LOCATION_INPUT = 177, FULL_ADDRESS = 178, POSTAL_CODE = 181,
  ROADSHIELDS = 182 }
- typedef AddressAttribute[ ] AddressAttributeList

Public Member Functions

- void getVersion (out Version version)
- void createLocationInput (in Handle sessionHandle, out LocationHandle locationInputHandle)
- void deleteLocationInput (in Handle sessionHandle, in LocationHandle locationInputHandle)
- void getSupportedAddressAttributes (out AddressAttributeList addressAttributesList)
- void setAddress (in Handle sessionHandle, in LocationHandle locationInputHandle, in Address address)
- void setSelectionCriterion (in Handle sessionHandle, in LocationHandle locationInputHandle, in AddressAttribute selectionCriterion)
- void spell (in Handle sessionHandle, in LocationHandle locationInputHandle, in String inputCharacter, in UInt16 maxWindowSize)
- void search (in Handle sessionHandle, in LocationHandle locationInputHandle, in String inputString, in UInt16 maxWindowSize)
- void requestListUpdate (in Handle sessionHandle, in LocationHandle locationInputHandle, in UInt16 offset, in UInt16 maxWindowSize)
- void selectEntry (in Handle sessionHandle, in LocationHandle locationInputHandle, in UInt16 index)
- void getEntry (in LocationHandle locationInputHandle, in UInt16 index, out Address address)
- void validateAddress (in Handle sessionHandle, in LocationHandle locationInputHandle, in Address inputAddress)
- void reverseGeocode (in Handle sessionHandle, in LocationHandle locationInputHandle, in Coordinate2D coordinate)

Public Attributes

- map_Address AddressAttribute =>AddressValue
- map_ValidationStatus AddressAttribute =>ValidationType

2.11.1 Detailed Description

#comment : LocationInput = This interface offers functions that implement the location-input functionality of a navigation system

2.11.2 Member Typedef Documentation

2.11.2.1 typedef AddressAttribute [ ] org::genivi::navigation::navigationcore::LocationInput::AddressAttributeList

2.11.3 Member Enumeration Documentation

2.11.3.1 enum org::genivi::navigation::navigationcore::LocationInput::AddressAttribute : GeoLocalizedEnum

Enumerator

COUNTRY

COUNTRYCODE

STATE

CITY

STREET

ROAD_NUMBER

HOUSENUMBER

HOUSENAME

CROSSING

DISTRICT

PHONENUMBER

POINAME

TOWNCENTER

LOCATION_INPUT

FULL_ADDRESS

POSTAL_CODE

ROADSHIELDS

2.11.3.2 enum org::genivi::navigation::navigationcore::LocationInput::SearchStatus : BasicEnum

Enumerator

SEARCHING

FINISHED

2.11.3.3 enum org::genivi::navigation::navigationcore::LocationInput::ValidationType : BasicEnum

Enumerator

OK

UNKNOWN

AMBIGUOUS

INCONSISTENT

2.11.4 Member Function Documentation

2.11.4.1 void org::genivi::navigation::navigationcore::LocationInput::createLocationInput (in Handle *sessionHandle,* out LocationHandle *locationInputHandle*)

#comment : createLocationInput = This method creates a new location input and retrieves a handle

2.11.4.2 void org::genivi::navigation::navigationcore::LocationInput::deleteLocationInput (in Handle *sessionHandle,* in LocationHandle *locationInputHandle*)

#comment : deleteLocationInput = This method deletes a location input and its associated resources

2.11.4.3 void org::genivi::navigation::navigationcore::LocationInput::getEntry (in LocationHandle *locationInputHandle,* in UInt16 *index,* out Address *address*)

#comment : getEntry = This method synchronously gets the address for the given result list entry

2.11.4.4 void org::genivi::navigation::navigationcore::LocationInput::getSupportedAddressAttributes (out AddressAttributeList *addressAttributesList*)

#comment : getSupportedAddressAttributes = This method retrieves the supported address attributes

2.11.4.5 void org::genivi::navigation::navigationcore::LocationInput::getVersion (out Version *version*)

#comment : getVersion = This method returns the API version implemented by the server application

2.11.4.6 void org::genivi::navigation::navigationcore::LocationInput::requestListUpdate (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in UInt16 *offset,* in UInt16 *maxWindowSize*)

#comment : requestListUpdate = This method sends a request for more list elements for the current session

2.11.4.7 void org::genivi::navigation::navigationcore::LocationInput::reverseGeocode (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in Coordinate2D *coordinate*)

#comment : reverseGeocode = This method transforms a geocoordinate into an address Note: the update of the input content will be notified in signal ContentUpdated

2.11.4.8 void org::genivi::navigation::navigationcore::LocationInput::search (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in String *inputString,* in UInt16 *maxWindowSize*)

#comment : search = This method sends the search input for the current session Note: when a search is started the entries of the spell input are removed

2.11.4.9 void org::genivi::navigation::navigationcore::LocationInput::selectEntry (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in UInt16 *index*)

#comment : selectEntry = This method triggers selection of a result list entry by index Note: the update of the input content will be notified in signal ContentUpdated

2.11.4.10 void org::genivi::navigation::navigationcore::LocationInput::setAddress (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in Address *address*)

#comment : setAddress = This method sets the address to start with for the LocationInput identified by the given handle

2.11.4.11 void org::genivi::navigation::navigationcore::LocationInput::setSelectionCriterion (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in **AddressAttribute** *selectionCriterion*)

#comment : setSelectionCriterion = This method sets the selection criterion for the current speller, search input and the corresponding result-lists for the current session

2.11.4.12 void org::genivi::navigation::navigationcore::LocationInput::spell (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in String *inputCharacter,* in UInt16 *maxWindowSize*)

#comment : spell = This method sends the next spell input for the current session Note: when a spell is started the entries of the search are removed

2.11.4.13 void org::genivi::navigation::navigationcore::LocationInput::validateAddress (in Handle *sessionHandle,* in LocationHandle *locationInputHandle,* in Address *inputAddress*)

#comment : validateAddress = This method validates an address from different sources than Navigation

2.11.5 Member Data Documentation

2.11.5.1 map_Address org::genivi::navigation::navigationcore::LocationInput::AddressAttribute =>AddressValue

2.11.5.2 map_ValidationStatus org::genivi::navigation::navigationcore::LocationInput::AddressAttribute =>ValidationType

The documentation for this interface was generated from the following file:

- LocationInput.fidl

2.12 org::genivi::navigation::navigationcore::LocationInput_client Interface Reference

Public Member Functions

- void currentSelectionCriterion (in LocationHandle locationInputHandle, in AddressAttribute selectionCriterion)
- void searchStatus (in LocationHandle locationInputHandle, in SearchStatus statusValue)
- void spellResult (in LocationHandle locationInputHandle, in String uniqueString, in String validCharacters, in Boolean fullMatch)
- void searchResultList (in LocationHandle locationInputHandle, in UInt16 totalSize, in UInt16 windowOffset, in UInt16 windowSize, in Address resultListWindow)
- void searchResultListSizeChanged (in LocationHandle locationInputHandle, in UInt16 totalSize)
- void contentUpdated (in LocationHandle locationInputHandle, in Boolean guidable, in AddressAttribute availableSelectionCriteria, in Address address)
- void addressValidationResult (in LocationHandle locationInputHandle, in Address validatedAddressList, in ValidationStatus validationStatusList)

2.12.1 Member Function Documentation

2.12.1.1 void org::genivi::navigation::navigationcore::LocationInput_client::addressValidationResult (in LocationHandle *locationInputHandle,* in Address *validatedAddressList,* in ValidationStatus *validationStatusList*)

broadcast #comment : addressValidationResult = This signal notifies the validation result of a former Validate↩ Address call

2.12.1.2 void org::genivi::navigation::navigationcore::LocationInput_client::contentUpdated (in LocationHandle *locationInputHandle,* in Boolean *guidable,* in AddressAttribute *availableSelectionCriteria,* in Address *address*)

broadcast #comment : contentUpdated = This signal updates the input content data for the specified session

2.12.1.3 void org::genivi::navigation::navigationcore::LocationInput_client::currentSelectionCriterion (in LocationHandle *locationInputHandle,* in AddressAttribute *selectionCriterion*)

broadcast #comment : currentSelectionCriterion = This signal notifies the SelectionCriterion for the current speller input or search.

2.12.1.4 void org::genivi::navigation::navigationcore::LocationInput_client::searchResultList (in LocationHandle *locationInputHandle,* in UInt16 *totalSize,* in UInt16 *windowOffset,* in UInt16 *windowSize,* in Address *resultListWindow*)

broadcast #comment : searchResultList = This signal updates the address result list (e.g. after a Search/Spell/Scroll call)

2.12.1.5 void org::genivi::navigation::navigationcore::LocationInput_client::searchResultListSizeChanged (in LocationHandle *locationInputHandle,* in UInt16 *totalSize*)

broadcast #comment : searchResultListSizeChanged = This signal updates the size of the address result list

2.12.1.6 void org::genivi::navigation::navigationcore::LocationInput_client::searchStatus (in LocationHandle *locationInputHandle,* in SearchStatus *statusValue*)

broadcast #comment : searchStatus = This signal updates the search status of the specified session

2.12.1.7 void org::genivi::navigation::navigationcore::LocationInput_client::spellResult (in LocationHandle *locationInputHandle,* in String *uniqueString,* in String *validCharacters,* in Boolean *fullMatch*)

broadcast #comment : spellResult = This signal notifies the result of the previous Spell method

The documentation for this interface was generated from the following file:

- LocationInput.fidl

2.13 org::genivi::navigation::navigationcore::Guidance::Maneuver Struct Reference

Public Attributes

- RoadShield[ ] roadShieldsAfterManeuver
- String countryCodeAfterManeuver
- String stateCodeAfterManeuver
- String roadNumberAfterManeuver
- String roadNameAfterManeuver
- RoadProperty roadPropertyAfterManeuver
- Side drivingSide
- UInt32 offsetOfNextManeuver
- ManeuverItem[ ] items

2.13.1 Member Data Documentation

2.13.1.1 String org::genivi::navigation::navigationcore::Guidance::Maneuver::countryCodeAfterManeuver

2.13.1.2 Side org::genivi::navigation::navigationcore::Guidance::Maneuver::drivingSide

2.13.1.3 ManeuverItem [ ] org::genivi::navigation::navigationcore::Guidance::Maneuver::items

2.13.1.4 UInt32 org::genivi::navigation::navigationcore::Guidance::Maneuver::offsetOfNextManeuver

2.13.1.5 String org::genivi::navigation::navigationcore::Guidance::Maneuver::roadNameAfterManeuver

2.13.1.6 String org::genivi::navigation::navigationcore::Guidance::Maneuver::roadNumberAfterManeuver

2.13.1.7 RoadProperty org::genivi::navigation::navigationcore::Guidance::Maneuver::roadPropertyAfterManeuver

2.13.1.8 RoadShield [ ] org::genivi::navigation::navigationcore::Guidance::Maneuver::roadShieldsAfterManeuver

2.13.1.9 String org::genivi::navigation::navigationcore::Guidance::Maneuver::stateCodeAfterManeuver

The documentation for this struct was generated from the following file:

- Guidance.fidl

2.14 org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue Union Reference

Public Attributes

- ManeuverDirection enumValue
- UInt16 uint16Value
- String stringValue
- RoadForm roadFormValue
- LaneInfo[ ] laneInfoValue
- Coordinate3D coordinate3DValue

2.14.1 Member Data Documentation

2.14.1.1 Coordinate3D org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::coordinate3DValue

2.14.1.2 ManeuverDirection org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::enumValue

2.14.1.3 LaneInfo [ ] org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::laneInfoValue

2.14.1.4 RoadForm org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::roadFormValue

2.14.1.5 String org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::stringValue

2.14.1.6 UInt16 org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::uint16Value

The documentation for this union was generated from the following file:

- Guidance.fidl

2.15 org::genivi::navigation::navigationcore::Guidance::ManeuverItem Struct Reference

Public Attributes

- UInt32 offsetOfManeuver
- UInt32 travelTime
- ManeuverDirectionType direction
- ManeuverType maneuver
- ManeuverData maneuverData

2.15.1 Member Data Documentation

2.15.1.1 ManeuverDirectionType org::genivi::navigation::navigationcore::Guidance::ManeuverItem::direction

2.15.1.2 ManeuverType org::genivi::navigation::navigationcore::Guidance::ManeuverItem::maneuver

2.15.1.3 ManeuverData org::genivi::navigation::navigationcore::Guidance::ManeuverItem::maneuverData

2.15.1.4 UInt32 org::genivi::navigation::navigationcore::Guidance::ManeuverItem::offsetOfManeuver

2.15.1.5 UInt32 org::genivi::navigation::navigationcore::Guidance::ManeuverItem::travelTime

The documentation for this struct was generated from the following file:

- Guidance.fidl

2.16 org::genivi::navigation::navigationcore::MapMatchedPosition Interface Reference

Classes

- union AddressItemValue
- union PositionItemValue
- union PositionOnSegmentValue
- union PositionStatusValue

Public Types

- enum PositionItemKey : PositionStatus { HEADING = 163, SPEED = 164, CLIMB = 165 }
- enum AddressItemKey : TimeStampedEnum {
  TIMEZONE_OFFSET = 17, DAYLIGHT_OFFSET = 18, COUNTRY = 166, STATE = 167,
  CITY = 168, STREET = 170, HOUSENUMBER = 171, CROSSING = 172,
  DISTRICT = 173, PHONENUMBER = 174, POINAME = 175, TOWNCENTER = 176,
  LOCATION_INPUT = 177, FULL_ADDRESS = 178, COUNTRYCODE = 179, HOUSENAME = 180,
  POSTAL_CODE = 181, ROAD_NUMBER = 334, MATCH_TYPE = 240, ROADSHIELDS = 182 }
- enum PositionStatus : GeoLocalizedEnum { GNSS_FIX_STATUS = 224, DR_STATUS = 225, MM_STATUS = 226, SIMULATION_MODE = 227 }
- enum MatchMode {
  MATCH_TYPE = 240, ON_ROAD = 241, OFF_ROAD = 242, ON_FERRY = 243,
  IN_TUNNEL = 244, ON_CARPARK = 245 }
- enum GnnsFixStatus : BasicEnum { NO_FIX = 256, TIME_FIX = 257, FIX_2D = 258, FIX_3D = 259 }
- enum PositionOnSegmentKey : TimeStampedEnum { SEGMENT_ID = 272, DIRECTION_ON_SEGMENT = 274, DISTANCE_ON_SEGMENT = 275 }
- enum SimulationStatus : BasicEnum { SIMULATION_STATUS_NO_SIMULATION = 544, SIMULATION_↩ STATUS_RUNNING = 545, SIMULATION_STATUS_PAUSED = 546, SIMULATION_STATUS_FIXED_P↩ OSITION = 547 }

Public Member Functions

- void getVersion (out Version version)
- void setSimulationMode (in Handle sessionHandle, in Boolean activate)
- void getSimulationStatus (out SimulationStatus simulationStatus)
- void setSimulationSpeed (in Handle sessionHandle, in UInt8 speedFactor)
- void getSimulationSpeed (out UInt8 speedFactor)
- void startSimulation (in Handle sessionHandle)
- void pauseSimulation (in Handle sessionHandle)
- void getPosition (in PositionItemKey valuesToReturn, out PositionItemDict position)
- void setPosition (in Handle sessionHandle, in PositionItemDict position)
- void getCurrentAddress (in AddressItemKey valuesToReturn, out AddressItemDict address)
- void getPositionOnSegment (in PositionOnSegmentKey valuesToReturn, out PositionOnSegmentDict positionOnSegment)
- void getStatus (in PositionStatus valuesToReturn, out PositionStatusDict status)

Public Attributes

- map_PositionItemDict PositionItemKey =>PositionItemValue
- map_AddressItemDict AddressItemKey =>AddressItemValue
- map_PositionOnSegmentDict PositionOnSegmentKey =>PositionOnSegmentValue
- map_PositionStatusDict PositionStatus =>PositionStatusValue

2.16.1 Detailed Description

#comment : MapMatchedPosition = This interface offers functions to retrieve the map matched position and to simulate positioning

2.16.2 Member Enumeration Documentation

2.16.2.1 enum org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemKey : TimeStampedEnum

Enumerator

TIMEZONE_OFFSET

DAYLIGHT_OFFSET

COUNTRY

STATE

CITY

STREET

HOUSENUMBER

CROSSING

DISTRICT

PHONENUMBER

POINAME

TOWNCENTER

LOCATION_INPUT

FULL_ADDRESS

COUNTRYCODE

HOUSENAME

POSTAL_CODE

ROAD_NUMBER

MATCH_TYPE

ROADSHIELDS

2.16.2.2 enum org::genivi::navigation::navigationcore::MapMatchedPosition::GnnsFixStatus : BasicEnum

Enumerator

NO_FIX

TIME_FIX

FIX_2D

FIX_3D

2.16.2.3 enum org::genivi::navigation::navigationcore::MapMatchedPosition::MatchMode

Enumerator

MATCH_TYPE

ON_ROAD

OFF_ROAD

ON_FERRY

IN_TUNNEL

ON_CARPARK

2.16.2.4 enum org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemKey : PositionStatus

Enumerator

HEADING

SPEED

CLIMB

2.16.2.5 enum org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentKey : TimeStampedEnum

Enumerator

SEGMENT_ID

DIRECTION_ON_SEGMENT

DISTANCE_ON_SEGMENT

2.16.2.6 enum org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatus : GeoLocalizedEnum

Enumerator

GNSS_FIX_STATUS

DR_STATUS

MM_STATUS

SIMULATION_MODE

2.16.2.7 enum org::genivi::navigation::navigationcore::MapMatchedPosition::SimulationStatus : BasicEnum

Enumerator

SIMULATION_STATUS_NO_SIMULATION

SIMULATION_STATUS_RUNNING

SIMULATION_STATUS_PAUSED

SIMULATION_STATUS_FIXED_POSITION

2.16.3 Member Function Documentation

2.16.3.1 void org::genivi::navigation::navigationcore::MapMatchedPosition::getCurrentAddress (in **AddressItemKey** *valuesToReturn,* out AddressItemDict *address*)

#comment : getCurrentAddress = This method returns the current address

2.16.3.2 void org::genivi::navigation::navigationcore::MapMatchedPosition::getPosition (in **PositionItemKey** *valuesToReturn,* out PositionItemDict *position*)

#comment : getPosition = This method returns the current position

2.16.3.3 void org::genivi::navigation::navigationcore::MapMatchedPosition::getPositionOnSegment (in **PositionOnSegmentKey** *valuesToReturn,* out PositionOnSegmentDict *positionOnSegment*)

#comment : positionOnSegment = This method returns the vehicle position on a route segment

2.16.3.4 void org::genivi::navigation::navigationcore::MapMatchedPosition::getSimulationSpeed (out UInt8 *speedFactor*)

#comment : getSimulationSpeed = returns the speed factor for the simulation mode

2.16.3.5 void org::genivi::navigation::navigationcore::MapMatchedPosition::getSimulationStatus (out **SimulationStatus** *simulationStatus*)

#comment : getSimulationStatus = This method retrieves the simulation status

2.16.3.6 void org::genivi::navigation::navigationcore::MapMatchedPosition::getStatus (in **PositionStatus** *valuesToReturn,* out PositionStatusDict *status*)

#comment : getStatus = This method returns the current status

2.16.3.7 void org::genivi::navigation::navigationcore::MapMatchedPosition::getVersion (out Version *version*)

#comment : getVersion = This method returns the API version implemented by the server application

2.16.3.8 void org::genivi::navigation::navigationcore::MapMatchedPosition::pauseSimulation (in Handle *sessionHandle*)

#comment : pauseSimulation = This method freezes the current location

2.16.3.9 void org::genivi::navigation::navigationcore::MapMatchedPosition::setPosition (in Handle *sessionHandle,* in PositionItemDict *position*)

#comment : setPosition = This method sets the position to a specific location

2.16.3.10 void org::genivi::navigation::navigationcore::MapMatchedPosition::setSimulationMode (in Handle *sessionHandle,* in Boolean *activate*)

#comment : setSimulationMode = This method activates or deactivates the simulation mode

2.16.3.11 void org::genivi::navigation::navigationcore::MapMatchedPosition::setSimulationSpeed (in Handle *sessionHandle,* in UInt8 *speedFactor*)

2.16.3.12 void org::genivi::navigation::navigationcore::MapMatchedPosition::startSimulation (in Handle *sessionHandle*)

#comment : startSimulation = This method starts, or resumes, a Follow Active Route simulation

2.16.4 Member Data Documentation

2.16.4.1 map_AddressItemDict org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemKey =>AddressItemValue

2.16.4.2 map_PositionItemDict org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemKey =>PositionItemValue

2.16.4.3 map_PositionOnSegmentDict org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentKey =>PositionOnSegmentValue

2.16.4.4 map_PositionStatusDict org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatus =>PositionStatusValue

The documentation for this interface was generated from the following file:

- MapMatchedPosition.fidl

2.17 org::genivi::navigation::navigationcore::MapMatchedPosition_client Interface Reference

Public Member Functions

- void simulationStatusChanged (in SimulationStatus simulationStatus)
- void simulationSpeedChanged (in UInt8 speedFactor)
- void positionUpdate (in PositionItemKey changedValues)
- void addressUpdate (in AddressItemKey changedValues)
- void positionOnSegmentUpdate (in PositionOnSegmentKey changedValues)
- void statusUpdate (in PositionStatus changedValues)
- void offRoadPositionChanged (in UInt32 distance, in Int32 direction)

2.17.1 Member Function Documentation

2.17.1.1 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::addressUpdate (in AddressItemKey *changedValues*)

broadcast #comment : addressUpdate = This signal is called to notify a client application that the current address changed

2.17.1.2 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::offRoadPositionChanged (in UInt32 *distance,* in Int32 *direction*)

broadcast #comment : offroadPositionChanged = This signal is emitted when the heading and the distance to the closest point on the road network changes

2.17.1.3 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::positionOnSegmentUpdate (in PositionOnSegmentKey *changedValues*)

broadcast #comment : positionOnSegmentUpdate = This signal is called to notify the client that the vehicle position on the route segment changed

2.17.1.4 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::positionUpdate (in PositionItemKey *changedValues*)

broadcast #comment : positionUpdate = This signal is called to notify a client application of a position change. The update frequency is implementation specific. The maximal allowed frequency is 10Hz

2.17.1.5 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::simulationSpeedChanged (in UInt8 *speedFactor*)

broadcast #comment : simulationSpeedChanged = This signal is emitted when the simulation speed factor has changed

2.17.1.6 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::simulationStatusChanged (in SimulationStatus *simulationStatus*)

broadcast #comment : simulationStatusChanged = This signal is emitted when the Simulation Status has changed

2.17.1.7 void org::genivi::navigation::navigationcore::MapMatchedPosition_client::statusUpdate (in PositionStatus *changedValues*)

broadcast #comment : statusUpdate = This signal is emitted to notifiy a client application that the current status changed

The documentation for this interface was generated from the following file:

- MapMatchedPosition.fidl

2.18 org::genivi::navigation::navigationcore::NavigationCoreTypes Interface Reference

Classes

- struct RoadShield
- struct RoadShieldAffix

Public Types

- enum TimeStampedEnum : BasicEnum { TIMESTAMP = 16 }
- enum GeoLocalizedEnum : TimeStampedEnum { LATITUDE = 160, LONGITUDE = 161, ALTITUDE = 162 }
- enum RoadShieldAffixType {
  NONE = 700, NORTH = 701, EAST = 702, SOUTH = 703,
  WEST = 704, ALTERNATE = 705, BYPASS = 706, BUSINESS_LOOP = 707,
  BUSINESS_ROUTE = 708, BUSINESS_SPUR = 709, EXTENDED = 710, COLLECTOR = 711,
  EXPRESS = 712 }

2.18.1 Member Enumeration Documentation

2.18.1.1 enum org::genivi::navigation::navigationcore::NavigationCoreTypes::GeoLocalizedEnum : TimeStampedEnum

Enumerator

LATITUDE

LONGITUDE

ALTITUDE

2.18.1.2 enum org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffixType

Enumerator

NONE

NORTH

EAST

SOUTH

WEST

ALTERNATE

BYPASS

BUSINESS_LOOP

BUSINESS_ROUTE

BUSINESS_SPUR

EXTENDED

COLLECTOR

EXPRESS

2.18.1.3 enum org::genivi::navigation::navigationcore::NavigationCoreTypes::TimeStampedEnum : BasicEnum

Enumerator

TIMESTAMP

The documentation for this interface was generated from the following file:

- NavigationCoreTypes.fidl

2.19 org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue Union Reference

Public Attributes

- Timestamp timestamp
- Boolean status
- GnnsFixStatus fix
- Double doubleValue
- Int32 intValue

2.19.1 Member Data Documentation

2.19.1.1 Double org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue::doubleValue

2.19.1.2 GnnsFixStatus org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue::fix

2.19.1.3 Int32 org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue::intValue

2.19.1.4 Boolean org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue::status

2.19.1.5 Timestamp org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue::timestamp

The documentation for this union was generated from the following file:

- MapMatchedPosition.fidl

2.20 org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue Union Reference

Public Attributes

- Boolean directionOnSegment
- Double distanceOnSegment
- ByteBuffer segment
- Timestamp timestamp

2.20.1 Member Data Documentation

2.20.1.1 Boolean org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue::directionOnSegment

2.20.1.2 Double org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue::distanceOnSegment

2.20.1.3 ByteBuffer org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue::segment

2.20.1.4 Timestamp org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue::timestamp

The documentation for this union was generated from the following file:

- MapMatchedPosition.fidl

2.21 org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue Union Reference

Public Attributes

- Boolean statusValue
- GnnsFixStatus fixStatus
- Timestamp timestamp

2.21.1 Member Data Documentation

2.21.1.1 GnnsFixStatus org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue::fixStatus

2.21.1.2 Boolean org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue::statusValue

2.21.1.3 Timestamp org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue::timestamp

The documentation for this union was generated from the following file:

- MapMatchedPosition.fidl

2.22 org::genivi::navigation::navigationcore::Routing::RoadPreference Struct Reference

Public Attributes

- PreferenceMode mode
- RoutePreferenceSource source

2.22.1 Member Data Documentation

2.22.1.1 PreferenceMode org::genivi::navigation::navigationcore::Routing::RoadPreference::mode

2.22.1.2 RoutePreferenceSource org::genivi::navigation::navigationcore::Routing::RoadPreference::source

The documentation for this struct was generated from the following file:

- Routing.fidl

2.23 org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield Struct Reference

Public Attributes

- String roadNumber
- RoadShieldAffix[ ] affixes
- String iconSetId

2.23.1 Member Data Documentation

2.23.1.1 RoadShieldAffix [ ] org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield::affixes

2.23.1.2 String org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield::iconSetId

2.23.1.3 String org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield::roadNumber

The documentation for this struct was generated from the following file:

- NavigationCoreTypes.fidl

2.24 org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffix Struct Reference

Public Attributes

- RoadShieldAffixType affixType
- String affixContent

2.24.1 Member Data Documentation

2.24.1.1 String org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffix::affixContent

2.24.1.2 RoadShieldAffixType org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffix::affixType

The documentation for this struct was generated from the following file:

- NavigationCoreTypes.fidl

2.25 org::genivi::navigation::navigationcore::Routing::RouteOverviewItem Union Reference

Public Attributes

- UInt32 uValue

2.25.1 Member Data Documentation

2.25.1.1 UInt32 org::genivi::navigation::navigationcore::Routing::RouteOverviewItem::uValue

The documentation for this union was generated from the following file:

- Routing.fidl

2.26 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem Union Reference

Public Attributes

- Double doubleValue
- IntermediatePoint[ ] intermediatePoints
- String stringValue
- UInt8[ ] linkId
- Int32 int32Value
- Int16 int16Value
- UInt32 uInt32Value
- UInt16 uInt16Value

2.26.1 Member Data Documentation

2.26.1.1 Double org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::doubleValue

2.26.1.2 Int16 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::int16Value

2.26.1.3 Int32 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::int32Value

2.26.1.4 IntermediatePoint [ ] org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::intermediatePoints

2.26.1.5 UInt8 [ ] org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::linkId

2.26.1.6 String org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::stringValue

2.26.1.7 UInt16 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::uInt16Value

2.26.1.8 UInt32 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::uInt32Value

The documentation for this union was generated from the following file:

- Routing.fidl

2.27 org::genivi::navigation::navigationcore::Routing Interface Reference

Classes

- struct BlockedRouteElement
- struct ConditionPreference
- struct IntermediatePoint
- struct RoadPreference
- union RouteOverviewItem
- union RouteSegmentItem
- union WayPointItem

Public Types

- enum CalculationStatus : BasicEnum { CALCULATION_OK = 304, NO_POSITION = 305 }
- enum CalculationError : BasicEnum { UNMATCHED_POSITION = 306, UNREACHABLE_DESTINATION = 307, UNFULFILLED_PREFERENCE_MODE = 308 }
- enum CostModel : BasicEnum {
  FASTEST = 352, SHORTEST = 353, ECOLOGICAL = 354, SCENIC = 355,
  EASY = 356, OFF_ROAD = 357, BALANCED = 358, CHEAPEST = 359 }
- enum RoutePreferenceSource : BasicEnum {
  FERRY = 368, TOLL_ROADS = 369, TUNNELS = 370, HIGHWAYS_MOTORWAYS = 371,
  VEHICLE_SIZE_LIMIT = 372, CRIME_AREAS = 373 }
- enum TransportationMeans : BasicEnum {
  BY_CAR = 384, ON_FOOT = 385, LONG_RANGE_TRAINS = 386, PUBLIC_TRANSPORTATION = 387,
  BY_BICYCLE = 388, BY_TRUCK = 389 }
- enum Schedule : BasicEnum { ARRIVAL_TIME = 394, ARRIVAL_DATE = 395, DEPARTURE_TIME = 396, DEPARTURE_DATE = 397 }

- enum PreferenceMode : BasicEnum {
  PROHIBIT = 400, AVOID = 401, USE = 402, PREFER = 403,
  IGNORE = 404 }
- enum ConditionPreferenceSource : BasicEnum { TRAFFIC_REALTIME = 512 }
- enum TimeStampedEnum : BasicEnum { TIMESTAMP = 16 }
- enum GeoLocalizedEnum : TimeStampedEnum { LATITUDE = 160, LONGITUDE = 161, ALTITUDE = 162 }
- enum WayPointType { HARD_POINT = 290, SOFT_POINT = 291 }
- enum RouteOverviewType : Schedule { TOTAL_TIME = 398, TOTAL_DISTANCE = 399 }
- enum WaypointElementType {
  LATITUDE = 160, LONGITUDE = 161, ALTITUDE = 162, LOCATION_INPUT = 17,
  WAYPOINT_TYPE = 289 }
- enum RouteSegmentType : BasicEnum {
  LINK_ID = 320, START_LATITUDE = 321, END_LATITUDE = 322, START_LONGITUDE = 323,
  END_LONGITUDE = 324, START_ALTITUDE = 325, END_ALTITUDE = 326, ROAD_NAME = 327,
  DISTANCE = 328, TIME = 329, MANEUVER = 330, INSTRUCTION = 331,
  BORDER_CROSSING = 332, ADDITIONAL_INFORMATION = 333, ROAD_NUMBER = 334, START_OF↩
  FSET = 335,
  INTERMEDIATE_POINTS = 288, HIGHWAY_EXIT = 116, SPEED = 164, TIME_ZONE,
  DAYLIGHT_SAVING_TIME }

Public Member Functions

- void getVersion (out Version version)
- void createRoute (in Handle sessionHandle, out Handle routeHandle)
- void deleteRoute (in Handle sessionHandle, in Handle routeHandle)
- void setCostModel (in Handle sessionHandle, in Handle routeHandle, in CostModel costModel)
- void getCostModel (in Handle routeHandle, out CostModel costModel)
- void getSupportedCostModels (out CostModel costModelsList)
- void setRoutePreferences (in Handle sessionHandle, in Handle routeHandle, in String countryCode, in RoadPreference roadPreferenceList, in ConditionPreference conditionPreferenceList)
- void getRoutePreferences (in Handle routeHandle, in String countryCode, out RoadPreference road↩
  PreferenceList, out ConditionPreference conditionPreferenceList)
- void getSupportedRoutePreferences (out RoadPreference routePreferencesList, out ConditionPreference conditionPreferenceList)
- void setRouteSchedule (in Handle sessionHandle, in Handle routeHandle, in RouteSchedule routeSchedule)
- void getRouteSchedule (in Handle routeHandle, in Schedule valuesToReturn, out RouteSchedule route↩
  Schedule)
- void setTransportationMeans (in Handle sessionHandle, in Handle routeHandle, in TransportationMeans transportationMeansList)
- void getTransportationMeans (in Handle routeHandle, out TransportationMeans transportationMeansList)
- void getSupportedTransportationMeans (out TransportationMeans transportationMeansList)
- void setExcludedAreas (in Handle sessionHandle, in Handle routeHandle, in Polygon excludedAreas)
- void getExcludedAreas (in Handle routeHandle, out Polygon excludedAreas)
- void setWaypoints (in Handle sessionHandle, in Handle routeHandle, in Boolean startFromCurrentPosition, in WayPoint waypointsList)
- void getWaypoints (in Handle routeHandle, out Boolean startFromCurrentPosition, out WayPoint waypoints↩
  List)
- void calculateRoute (in Handle sessionHandle, in Handle routeHandle)
- void cancelRouteCalculation (in Handle sessionHandle, in Handle routeHandle)
- void calculateAlternativeRoutes (in Handle sessionHandle, in Handle calculatedRoute, in UInt16 numberOf↩
  AlternativeRoutes, out Handle alternativeRoutesList)
- void getRouteSegments (in Handle routeHandle, in Int16 detailLevel, in RouteSegmentType valuesToReturn, in UInt32 numberOfSegments, in UInt32 offset, out UInt32 totalNumberOfSegments, out RouteSegment routeSegments)

- void getRouteOverview (in Handle routeHandle, in RouteOverviewType valuesToReturn, out RouteOverview routeOverview)
- void getRouteBoundingBox (in Handle routeHandle, out Rectangle boundingBox)
- void getAllRoutes (out Handle routesList)
- void setBlockedRouteStretches (in Handle sessionHandle, in Handle routeHandle, in BlockedRouteElement blockParameters)
- void getBlockedRouteStretches (in Handle routeHandle, out BlockedRouteElement blockParameters)

Public Attributes

- map_UnfullfilledRoutePreference PreferenceMode =>RoutePreferenceSource
- map_RouteSchedule Schedule =>UInt32
- map_RouteOverview RouteOverviewType =>RouteOverviewItem
- map_WayPoint WaypointElementType =>WayPointItem
- map_RouteSegment RouteSegmentType =>RouteSegmentItem

2.27.1 Detailed Description

#comment : This interface offers functions that implement the routing functionality of a navigation system

2.27.2 Member Enumeration Documentation

2.27.2.1 enum org::genivi::navigation::navigationcore::Routing::CalculationError : BasicEnum

Enumerator

UNMATCHED_POSITION

UNREACHABLE_DESTINATION

UNFULFILLED_PREFERENCE_MODE

2.27.2.2 enum org::genivi::navigation::navigationcore::Routing::CalculationStatus : BasicEnum

Enumerator

CALCULATION_OK

NO_POSITION

2.27.2.3 enum org::genivi::navigation::navigationcore::Routing::ConditionPreferenceSource : BasicEnum

Enumerator

TRAFFIC_REALTIME

2.27.2.4 enum org::genivi::navigation::navigationcore::Routing::CostModel : BasicEnum

Enumerator

FASTEST

SHORTEST

ECOLOGICAL

SCENIC

EASY

OFF_ROAD

BALANCED

CHEAPEST

2.27.2.5 enum org::genivi::navigation::navigationcore::Routing::GeoLocalizedEnum : TimeStampedEnum

Enumerator

LATITUDE

LONGITUDE

ALTITUDE

2.27.2.6 enum org::genivi::navigation::navigationcore::Routing::PreferenceMode : BasicEnum

Enumerator

PROHIBIT

AVOID

USE

PREFER

IGNORE

2.27.2.7 enum org::genivi::navigation::navigationcore::Routing::RouteOverviewType : Schedule

Enumerator

TOTAL_TIME

TOTAL_DISTANCE

2.27.2.8 enum org::genivi::navigation::navigationcore::Routing::RoutePreferenceSource : BasicEnum

Enumerator

FERRY

TOLL_ROADS

TUNNELS

HIGHWAYS_MOTORWAYS

VEHICLE_SIZE_LIMIT

CRIME_AREAS

2.27.2.9 enum org::genivi::navigation::navigationcore::Routing::RouteSegmentType : BasicEnum

Enumerator

LINK_ID
START_LATITUDE
END_LATITUDE
START_LONGITUDE
END_LONGITUDE
START_ALTITUDE
END_ALTITUDE
ROAD_NAME
DISTANCE
TIME
MANEUVER
INSTRUCTION
BORDER_CROSSING
ADDITIONAL_INFORMATION
ROAD_NUMBER
START_OFFSET
INTERMEDIATE_POINTS
HIGHWAY_EXIT
SPEED
TIME_ZONE
DAYLIGHT_SAVING_TIME

2.27.2.10 enum org::genivi::navigation::navigationcore::Routing::Schedule : BasicEnum

Enumerator

ARRIVAL_TIME
ARRIVAL_DATE
DEPARTURE_TIME
DEPARTURE_DATE

2.27.2.11 enum org::genivi::navigation::navigationcore::Routing::TimeStampedEnum : BasicEnum

Enumerator

TIMESTAMP

2.27.2.12 enum org::genivi::navigation::navigationcore::Routing::TransportationMeans : BasicEnum

Enumerator

BY_CAR
ON_FOOT
LONG_RANGE_TRAINS
PUBLIC_TRANSPORTATION
BY_BICYCLE
BY_TRUCK

2.27.2.13 enum org::genivi::navigation::navigationcore::Routing::WaypointElementType

Enumerator

LATITUDE

LONGITUDE

ALTITUDE

LOCATION_INPUT

WAYPOINT_TYPE

2.27.2.14 enum org::genivi::navigation::navigationcore::Routing::WayPointType

Enumerator

HARD_POINT

SOFT_POINT

2.27.3 Member Function Documentation

2.27.3.1 void org::genivi::navigation::navigationcore::Routing::calculateAlternativeRoutes (in Handle *sessionHandle,* in Handle *calculatedRoute,* in UInt16 *numberOfAlternativeRoutes,* out Handle *alternativeRoutesList*)

#comment :#comment : calculateAlternativeRoutes = This method allows a client to calculate alternative routes of a route that already calculated.

2.27.3.2 void org::genivi::navigation::navigationcore::Routing::calculateRoute (in Handle *sessionHandle,* in Handle *routeHandle*)

#comment : calculateRoute = This method starts a route calculation

2.27.3.3 void org::genivi::navigation::navigationcore::Routing::cancelRouteCalculation (in Handle *sessionHandle,* in Handle *routeHandle*)

#comment : cancelRouteCalculation = This method cancels a route calculation

2.27.3.4 void org::genivi::navigation::navigationcore::Routing::createRoute (in Handle *sessionHandle,* out Handle *routeHandle*)

#comment : This method creates a route

2.27.3.5 void org::genivi::navigation::navigationcore::Routing::deleteRoute (in Handle *sessionHandle,* in Handle *routeHandle*)

#comment : This method deletes a route and its associated resources

2.27.3.6 void org::genivi::navigation::navigationcore::Routing::getAllRoutes (out Handle *routesList*)

#comment : getAllRoutes = This method retrieves the handles of all created routes

2.27.3.7 void org::genivi::navigation::navigationcore::Routing::getBlockedRouteStretches (in Handle *routeHandle,* out **BlockedRouteElement** *blockParameters*)

#comment : getBlockedRouteStretches = This method retrieves all blocked streches on a given route

2.27.3.8 void org::genivi::navigation::navigationcore::Routing::getCostModel (in Handle *routeHandle,* out **CostModel** *costModel*)

#comment : This method retrieves the selected cost model

2.27.3.9 void org::genivi::navigation::navigationcore::Routing::getExcludedAreas (in Handle *routeHandle,* out Polygon *excludedAreas*)

#comment : getExcludedAreas = This method retrieves the areas to be excluded when calculating a route

2.27.3.10 void org::genivi::navigation::navigationcore::Routing::getRouteBoundingBox (in Handle *routeHandle,* out Rectangle *boundingBox*)

#comment : getRouteBoundingBox = This method retrieves the bounding box containing a calculated route

2.27.3.11 void org::genivi::navigation::navigationcore::Routing::getRouteOverview (in Handle *routeHandle,* in **RouteOverviewType** *valuesToReturn,* out RouteOverview *routeOverview*)

#comment : getRouteOverview = This method retrieves general information about a given route

2.27.3.12 void org::genivi::navigation::navigationcore::Routing::getRoutePreferences (in Handle *routeHandle,* in String *countryCode,* out **RoadPreference** *roadPreferenceList,* out **ConditionPreference** *conditionPreferenceList*)

#comment : This method retrieves a list of selected route preferences

2.27.3.13 void org::genivi::navigation::navigationcore::Routing::getRouteSchedule (in Handle *routeHandle,* in **Schedule** *valuesToReturn,* out RouteSchedule *routeSchedule*)

#comment : This method gets the time schedule for the route to be calculated

2.27.3.14 void org::genivi::navigation::navigationcore::Routing::getRouteSegments (in Handle *routeHandle,* in Int16 *detailLevel,* in **RouteSegmentType** *valuesToReturn,* in UInt32 *numberOfSegments,* in UInt32 *offset,* out UInt32 *totalNumberOfSegments,* out RouteSegment *routeSegments*)

#comment : getRouteSegments = This method retrieves a list of segments for a given route starting from the one closest to the current position to the one closest to the destination

2.27.3.15 void org::genivi::navigation::navigationcore::Routing::getSupportedCostModels (out **CostModel** *costModelsList*)

#comment : This method retrieves a list of supported cost models

2.27.3.16 void org::genivi::navigation::navigationcore::Routing::getSupportedRoutePreferences (out **RoadPreference** *routePreferencesList,* out **ConditionPreference** *conditionPreferenceList*)

#comment : This method retrieves a list of supported route preferences

2.27.3.17 **void org::genivi::navigation::navigationcore::Routing::getSupportedTransportationMeans (out TransportationMeans *transportationMeansList*)**

#comment : getSupportedTransportationMeans = This method retrieves a list of supported means of transportation

2.27.3.18 **void org::genivi::navigation::navigationcore::Routing::getTransportationMeans (in Handle *routeHandle,* out TransportationMeans *transportationMeansList*)**

#comment : getTransportationMeans = This method retrieves the selected means of transportation

2.27.3.19 **void org::genivi::navigation::navigationcore::Routing::getVersion (out Version *version*)**

#comment : This method returns the API version implemented by the server application

2.27.3.20 **void org::genivi::navigation::navigationcore::Routing::getWaypoints (in Handle *routeHandle,* out Boolean *startFromCurrentPosition,* out WayPoint *waypointsList*)**

#comment : getWaypoints = This method retrieves a list of waypoints

2.27.3.21 **void org::genivi::navigation::navigationcore::Routing::setBlockedRouteStretches (in Handle *sessionHandle,* in Handle *routeHandle,* in BlockedRouteElement *blockParameters*)**

#comment : setBlockedRouteStretches = This method sets blocked streches on a given route

2.27.3.22 **void org::genivi::navigation::navigationcore::Routing::setCostModel (in Handle *sessionHandle,* in Handle *routeHandle,* in CostModel *costModel*)**

#comment : This method sets the cost model

2.27.3.23 **void org::genivi::navigation::navigationcore::Routing::setExcludedAreas (in Handle *sessionHandle,* in Handle *routeHandle,* in Polygon *excludedAreas*)**

#comment : setExcludedAreas = This method sets the areas to be excluded when calculating a route

2.27.3.24 **void org::genivi::navigation::navigationcore::Routing::setRoutePreferences (in Handle *sessionHandle,* in Handle *routeHandle,* in String *countryCode,* in RoadPreference *roadPreferenceList,* in ConditionPreference *conditionPreferenceList*)**

#comment : This method sets a list of route preferences

2.27.3.25 **void org::genivi::navigation::navigationcore::Routing::setRouteSchedule (in Handle *sessionHandle,* in Handle *routeHandle,* in RouteSchedule *routeSchedule*)**

#comment : This method sets the time schedule for the route to be calculated

2.27.3.26 **void org::genivi::navigation::navigationcore::Routing::setTransportationMeans (in Handle *sessionHandle,* in Handle *routeHandle,* in TransportationMeans *transportationMeansList*)**

#comment : This method sets a list of means of transportation that must be considered when calculating a route

2.27.3.27 void org::genivi::navigation::navigationcore::Routing::setWaypoints (in Handle *sessionHandle,* in Handle *routeHandle,* in Boolean *startFromCurrentPosition,* in WayPoint *waypointsList*)

#comment : setWaypoints = This method sets a list of waypoints

2.27.4 Member Data Documentation

2.27.4.1 map_UnfullfilledRoutePreference org::genivi::navigation::navigationcore::Routing::PreferenceMode =>RoutePreferenceSource

2.27.4.2 map_RouteOverview org::genivi::navigation::navigationcore::Routing::RouteOverviewType =>RouteOverviewItem

2.27.4.3 map_RouteSegment org::genivi::navigation::navigationcore::Routing::RouteSegmentType =>RouteSegmentItem

2.27.4.4 map_RouteSchedule org::genivi::navigation::navigationcore::Routing::Schedule =>UInt32

2.27.4.5 map_WayPoint org::genivi::navigation::navigationcore::Routing::WaypointElementType =>WayPointItem

The documentation for this interface was generated from the following file:

- Routing.fidl

2.28 org::genivi::navigation::navigationcore::Routing_client Interface Reference

Public Member Functions

- void routeDeleted (in Handle routeHandle)
- void routeCalculationCancelled (in Handle routeHandle)
- void routeCalculationSuccessful (in Handle routeHandle, in UnfullfilledRoutePreference unfullfilled↩ Preferences)
- void routeCalculationFailed (in Handle Handle, in CalculationError errorCode, in UnfullfilledRoutePreference unfullfilledPreferences)
- void routeCalculationProgressUpdate (in Handle routeHandle, in CalculationStatus status, in UInt8 percentage)
- void alternativeRoutesAvailable (in Handle routeHandlesList)

2.28.1 Member Function Documentation

2.28.1.1 void org::genivi::navigation::navigationcore::Routing_client::alternativeRoutesAvailable (in Handle *routeHandlesList*)

broadcast #comment : alternativeRoutesAvailable = This signal is emitted when alternative routes have been computed in the background and are available for guidance.

2.28.1.2 void org::genivi::navigation::navigationcore::Routing_client::routeCalculationCancelled (in Handle *routeHandle*)

broadcast #comment : routeCalculationCancelled = This signal informs a client that a route calculation was cancelled

2.28.1.3 void org::genivi::navigation::navigationcore::Routing_client::routeCalculationFailed (in Handle *Handle,* in CalculationError *errorCode,* in UnfullfilledRoutePreference *unfullfilledPreferences*)

broadcast #comment : routeCalculationFailed = This signal informs a client that a route calculation failed

2.28.1.4 void org::genivi::navigation::navigationcore::Routing_client::routeCalculationProgressUpdate (in Handle *routeHandle,* in CalculationStatus *status,* in UInt8 *percentage*)

broadcast #comment : routeCalculationProgressUpdate = This signal informs a client about a route calculation progress

2.28.1.5 void org::genivi::navigation::navigationcore::Routing_client::routeCalculationSuccessful (in Handle *routeHandle,* in UnfullfilledRoutePreference *unfullfilledPreferences*)

broadcast #comment : routeCalculationSuccessful = This signal informs a client that a route calculation was successful

2.28.1.6 void org::genivi::navigation::navigationcore::Routing_client::routeDeleted (in Handle *routeHandle*)

broadcast #comment : routeDeleted = This signal is emitted to inform clients that the current route has been deleted

The documentation for this interface was generated from the following file:

- Routing.fidl

2.29 org::genivi::navigation::navigationcore::Session Interface Reference

Public Member Functions

- void getVersion (out Version version)
- void createSession (in String clientApp, out Handle sessionHandle)
- void deleteSession (in Handle sessionHandle)
- void getSessionStatus (in Handle sessionHandle, out SessionStatus sessionStatus)
- void getAllSessions (out Session sessionsList)

2.29.1 Detailed Description

#comment : This interface offers methods that implement the navigation core session functionality of a navigation system.

2.29.2 Member Function Documentation

2.29.2.1 void org::genivi::navigation::navigationcore::Session::createSession (in String *clientApp,* out Handle *sessionHandle*)

#comment : createSession = This method creates a new session and retrieves a handle .

2.29.2.2 void org::genivi::navigation::navigationcore::Session::deleteSession (in Handle *sessionHandle*)

#comment : deleteSession = This method deletes a session and its associated resources .

2.29.2.3 void org::genivi::navigation::navigationcore::Session::getAllSessions (out Session *sessionsList*)

#comment : This method returns a list of all available sessions .

2.29.2.4 void org::genivi::navigation::navigationcore::Session::getSessionStatus (in Handle *sessionHandle,* out SessionStatus *sessionStatus*)

#comment : This method returns whether a given session handle is available or not (for example because it was deleted) .

2.29.2.5 void org::genivi::navigation::navigationcore::Session::getVersion (out Version *version*)

#comment : This method returns the API version .

The documentation for this interface was generated from the following file:

- Session.fidl

2.30 org::genivi::navigation::navigationcore::Session_client Interface Reference

Public Member Functions

- void sessionDeleted (in Handle sessionHandle)

2.30.1 Member Function Documentation

2.30.1.1 void org::genivi::navigation::navigationcore::Session_client::sessionDeleted (in Handle *sessionHandle*)

broadcast #comment : sessionDeleted = This signal is emitted when a session is deleted

The documentation for this interface was generated from the following file:

- Session.fidl

2.31 org::genivi::navigation::navigationcore::Routing::WayPointItem Union Reference

Public Attributes

- Double coordinateValue
- WayPointType waypointValue
- UInt8[ ] metaData

2.31.1 Member Data Documentation

2.31.1.1 Double org::genivi::navigation::navigationcore::Routing::WayPointItem::coordinateValue

2.31.1.2 UInt8 [ ] org::genivi::navigation::navigationcore::Routing::WayPointItem::metaData

2.31.1.3 WayPointType org::genivi::navigation::navigationcore::Routing::WayPointItem::waypointValue

The documentation for this union was generated from the following file:

- Routing.fidl

2.32 org::genivi::navigation::navigationcore::Guidance::WaypointStruct Struct Reference

Public Attributes

- UInt32 waypointOffset
- UInt32 travelTime
- Int32 direction
- Side side
- Int16 timeZone
- Int16 daylightSavingTime
- Boolean isDestination
- UInt16 number

2.32.1 Member Data Documentation

2.32.1.1 Int16 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::daylightSavingTime

2.32.1.2 Int32 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::direction

2.32.1.3 Boolean org::genivi::navigation::navigationcore::Guidance::WaypointStruct::isDestination

2.32.1.4 UInt16 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::number

2.32.1.5 Side org::genivi::navigation::navigationcore::Guidance::WaypointStruct::side

2.32.1.6 Int16 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::timeZone

2.32.1.7 UInt32 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::travelTime

2.32.1.8 UInt32 org::genivi::navigation::navigationcore::Guidance::WaypointStruct::waypointOffset

The documentation for this struct was generated from the following file:

- Guidance.fidl

3 File Documentation

3.1 Configuration.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::Configuration
- interface org::genivi::navigation::navigationcore::Configuration_client

Modules

- module org::genivi::navigation::navigationcore

3.2 Guidance.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::Guidance
- union org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue
- struct org::genivi::navigation::navigationcore::Guidance::LaneInfo
- struct org::genivi::navigation::navigationcore::Guidance::WaypointStruct
- struct org::genivi::navigation::navigationcore::Guidance::ManeuverItem
- struct org::genivi::navigation::navigationcore::Guidance::Maneuver
- interface org::genivi::navigation::navigationcore::Guidance_client

Modules

- module org::genivi::navigation::navigationcore

3.3 LocationInput.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::LocationInput
- union org::genivi::navigation::navigationcore::LocationInput::AddressValue
- interface org::genivi::navigation::navigationcore::LocationInput_client

Modules

- module org::genivi::navigation::navigationcore

3.4 MapMatchedPosition.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::MapMatchedPosition
- union org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue
- union org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue
- union org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue
- union org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue
- interface org::genivi::navigation::navigationcore::MapMatchedPosition_client

Modules

- module org::genivi::navigation::navigationcore

3.5 NavigationCoreTypes.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::NavigationCoreTypes
- struct org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffix
- struct org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield

Modules

- module org::genivi::navigation::navigationcore

3.6 Routing.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::Routing
- struct org::genivi::navigation::navigationcore::Routing::RoadPreference
- struct org::genivi::navigation::navigationcore::Routing::ConditionPreference
- struct org::genivi::navigation::navigationcore::Routing::IntermediatePoint
- union org::genivi::navigation::navigationcore::Routing::RouteOverviewItem
- union org::genivi::navigation::navigationcore::Routing::WayPointItem
- union org::genivi::navigation::navigationcore::Routing::RouteSegmentItem
- struct org::genivi::navigation::navigationcore::Routing::BlockedRouteElement
- interface org::genivi::navigation::navigationcore::Routing_client

Modules

- module org::genivi::navigation::navigationcore

3.7 Session.fidl File Reference

Classes

- interface org::genivi::navigation::navigationcore::Session
- interface org::genivi::navigation::navigationcore::Session_client

Modules

- module org::genivi::navigation::navigationcore

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