



GENIVI Alliance

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NavigationCore

Component Specification

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Page 2

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Table of contents

1 Change History.....	4
2 Introduction.....	5
3 Terminology.....	6
4 Architecture.....	7
4.1 Interfaces.....	7
4.2 Interaction with other Components.....	8
.....	8
5 API.....	9
5.1 Git Repository.....	9
5.2 Sequence Diagrams.....	9
5.2.1 navigation application creates route.....	9
5.2.2 navigation application starts route calculation.....	10
5.2.3 navigation application gets list of segments.....	11
5.2.4 navigation application enters destination.....	12
5.2.5 two clients try to change route preferences of the same route.....	13
5.2.6 navigation application sets route preferences.....	14
5.2.7 navigation application sets starting point.....	15
5.2.8 navigation application sets transportation means.....	16
5.2.9 navigation application changes waypoints order.....	17
.....	17
5.2.10 navigation application enables voice guidance.....	18
5.2.11 navigation application starts a simulation.....	19
5.2.12 navigation application starts guidance.....	20
5.2.13 navigation application stops guidance.....	21
5.2.14 HMI requests voice instruction.....	22
.....	23
5.2.15 navigation application creates location input session.....	23
5.2.16 navigation application enters location.....	24
5.2.17 navigation application enters location using speller.....	25
5.2.18 navigation application enters full address.....	26
5.3 Interfaces.....	27

1 Change History

Version	Date	Author	Change
0.1	27 Feb 2012	Marco Residori (XS Embedded)	Document Created.
0.2	19 Mar 2012	Marco Residori (XS Embedded)	Updated sequence diagrams. Updated <i>Interfaces</i> chapter.
0.3	21 Mar 2012	Marco Residori (XS Embedded)	Updated <i>Interfaces</i> chapter.
1.0	22 Mar 2012	Marco Residori (XS Embedded)	System Architecture Team (SAT) approval.
2.0 (beta)	07 Jun 2013	Marco Residori (XS Embedded)	Updated API description. API Version 2.0.
2.0	17 Jun 2013	Marco Residori (XS Embedded)	Updated API description. API fixes: GT-2691, GT-2689, GT-2651. API Version 2.0 (<i>gemini-final</i> tag)
3.0.0	21 Jan 2014	Marco Residori (XS Embedded)	Updated API description. API Version 3.0.0
3.0.1	22 May 2014	Marco Residori (XS Embedded)	Updated copyright notes.
3.0.2	30 June 2014	Marco Residori (XS Embedded)	Updated contributors list.
4.0	7 Feb 2017	Philippe COLLIOT (PSA GROUPE)	Refine the document for Franca based API

2 Introduction

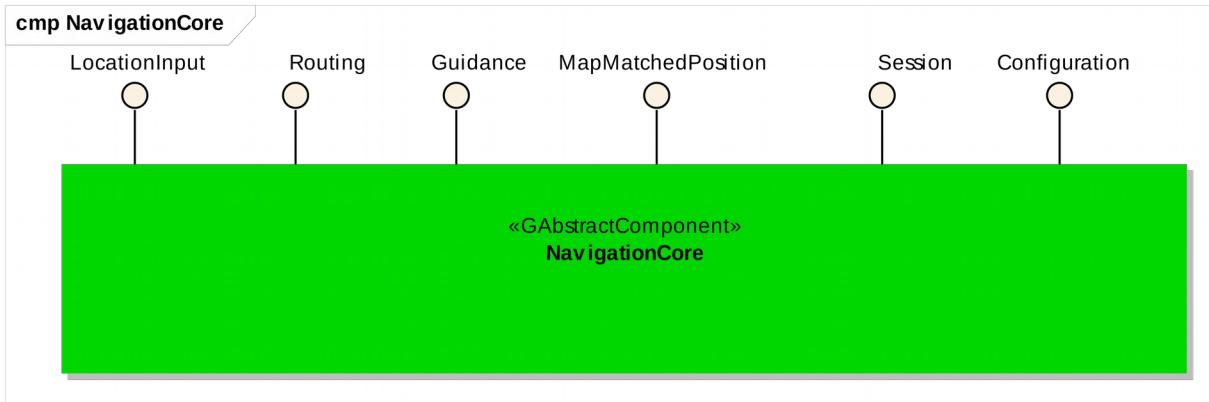
This document describes the NavigationCore API.

3 Terminology

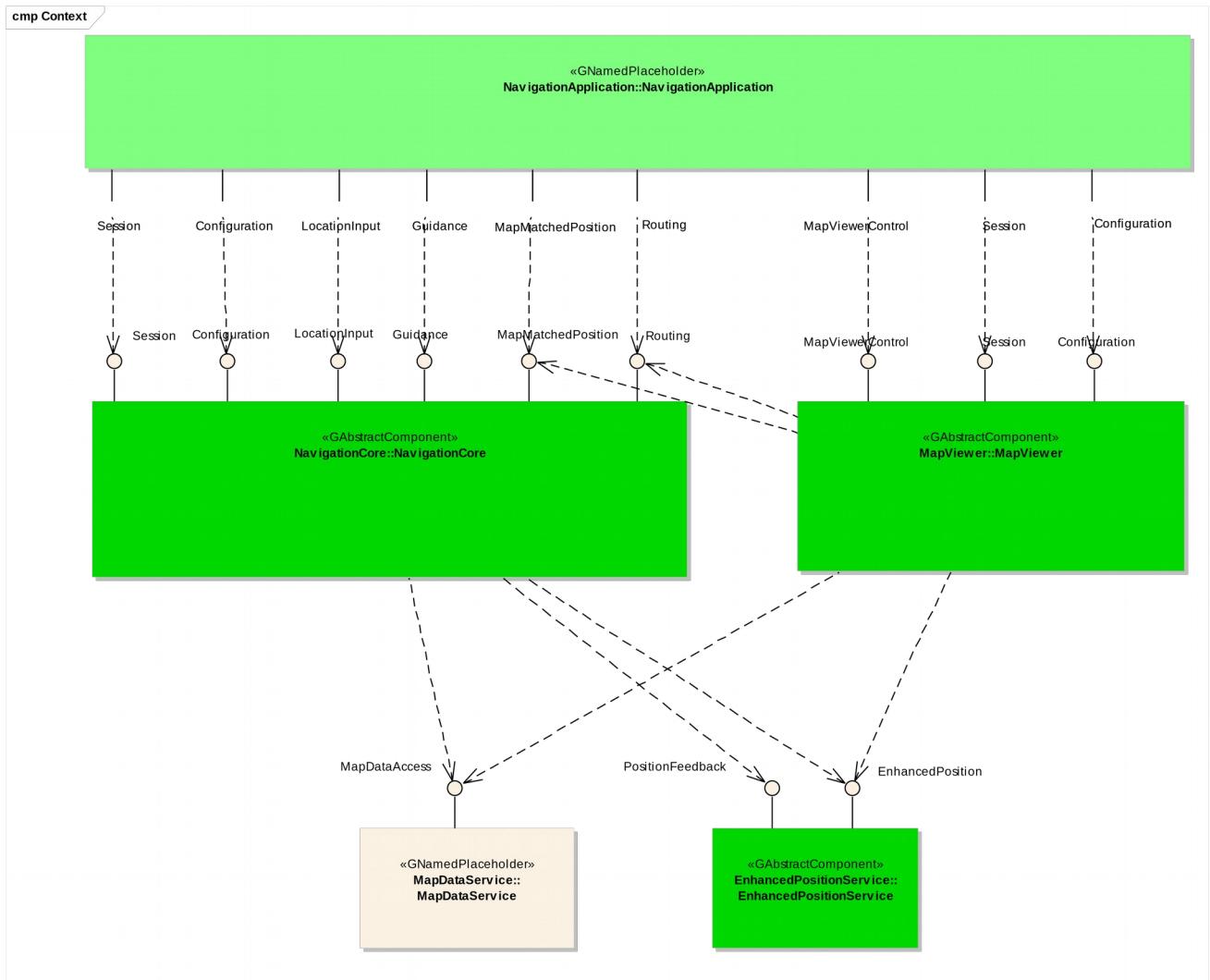
<i>Term</i>	<i>Description</i>
Link-ID	Identifier of a route segment in a database

4 Architecture

4.1 Interfaces



4.2 Interaction with other Components



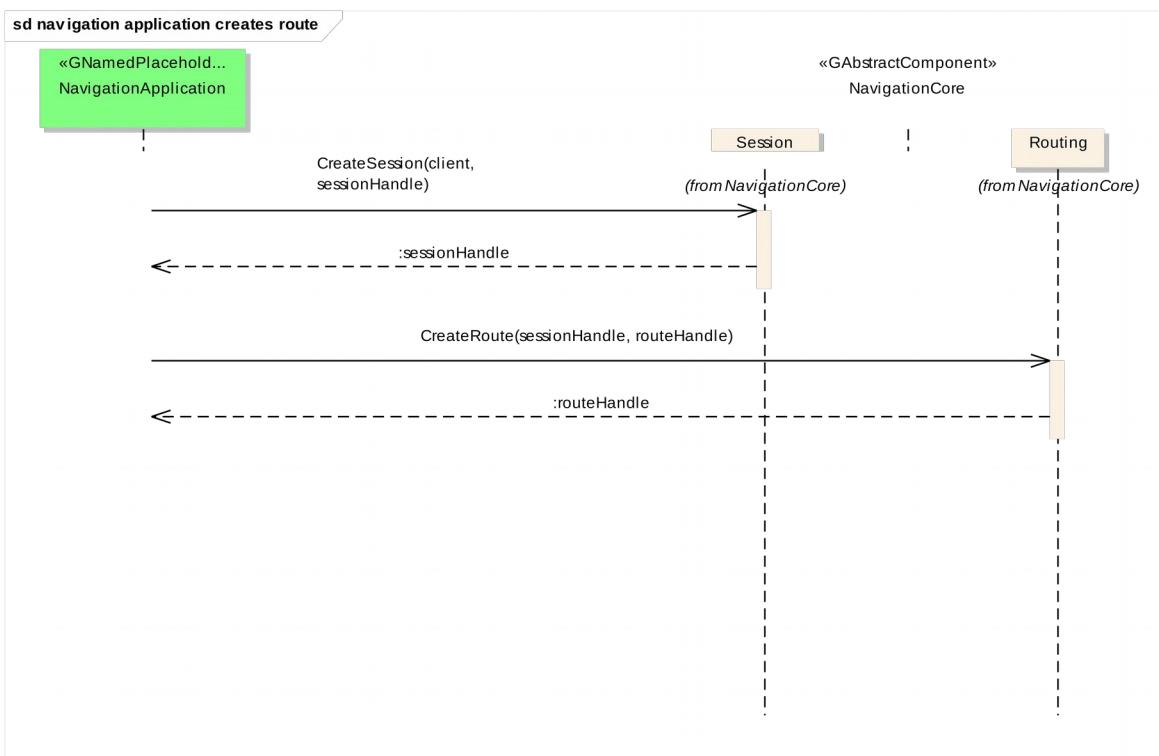
5 API

5.1 Git Repository

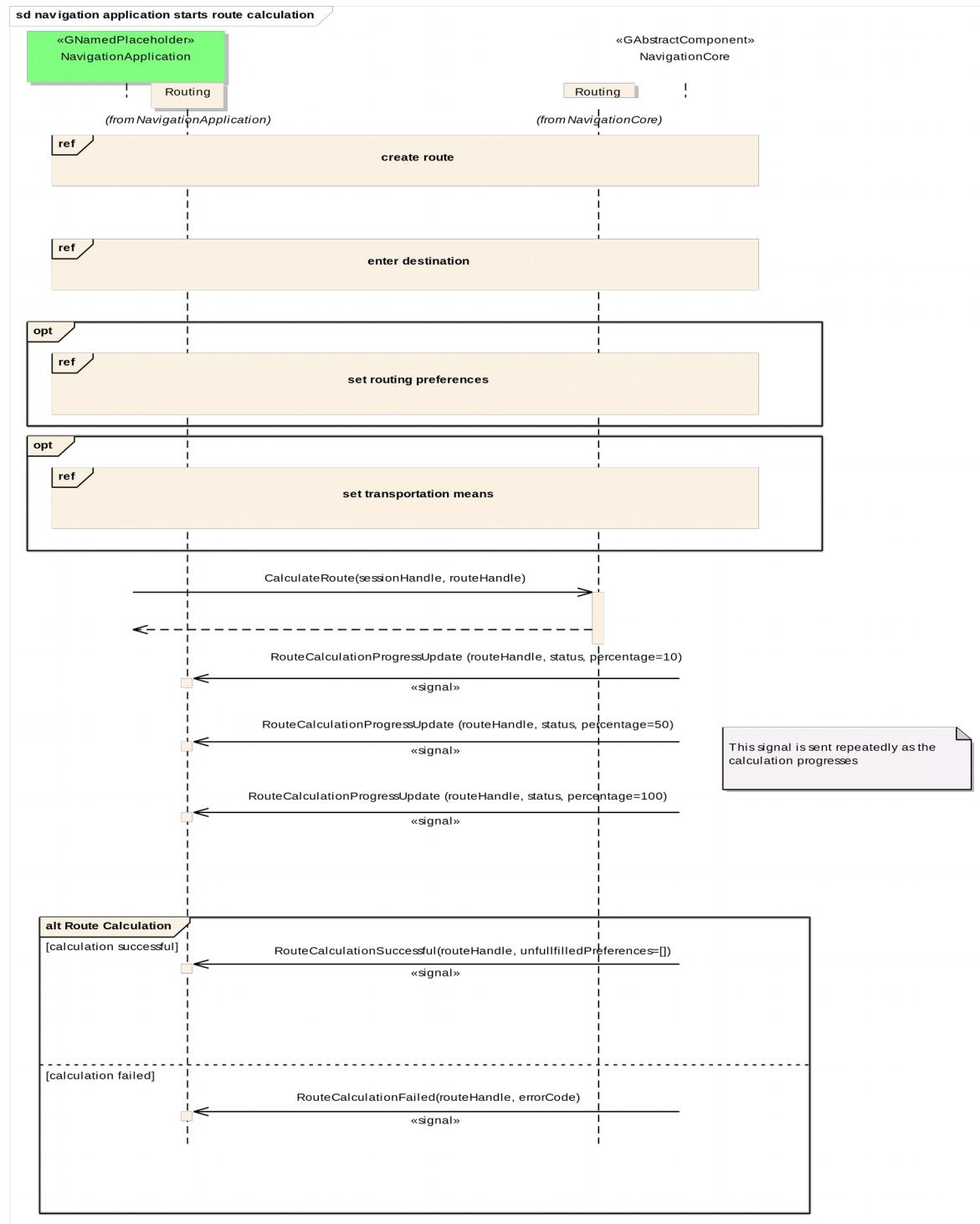
The NavigationCore interfaces can be found in the GENIVI Git repository at:
<https://github.com/GENIVI/navigation/tree/master/api/franca/navigation/navigationcore>

5.2 Sequence Diagrams

5.2.1 navigation application creates route



5.2.2 navigation application starts route calculation

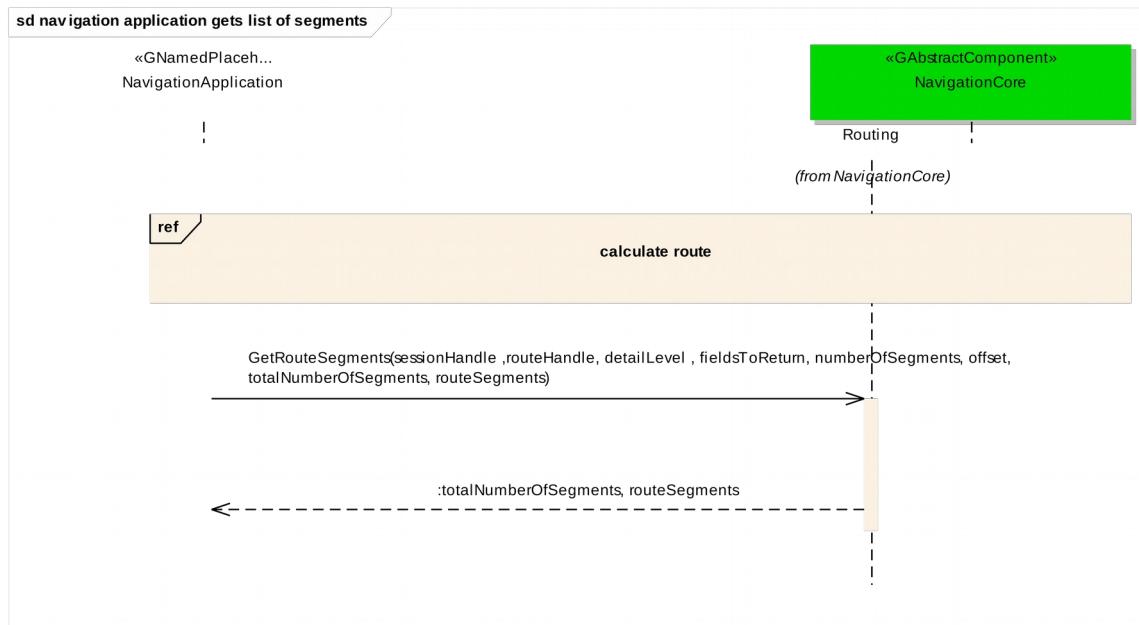


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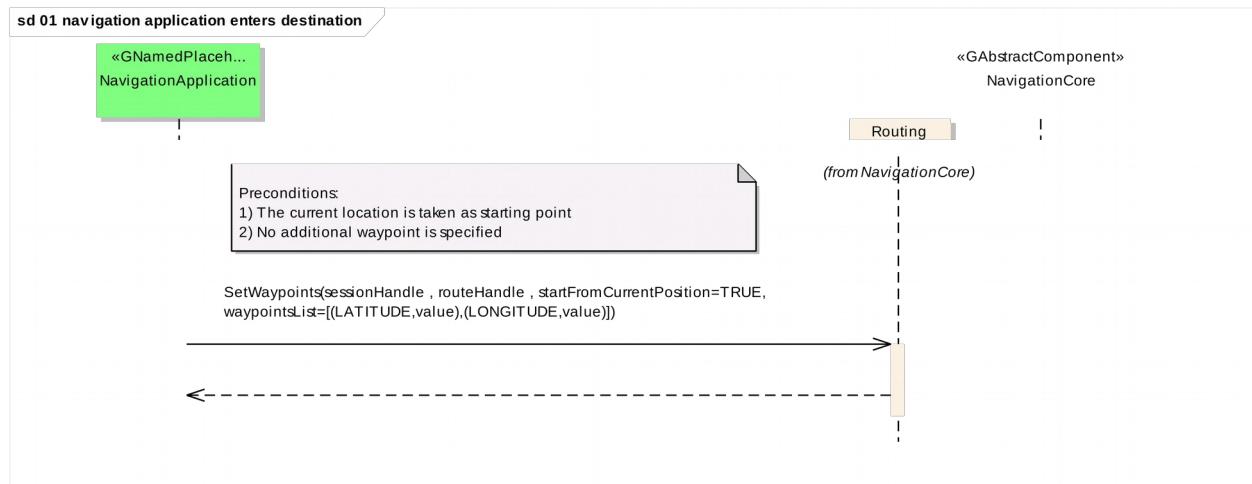
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Page 10

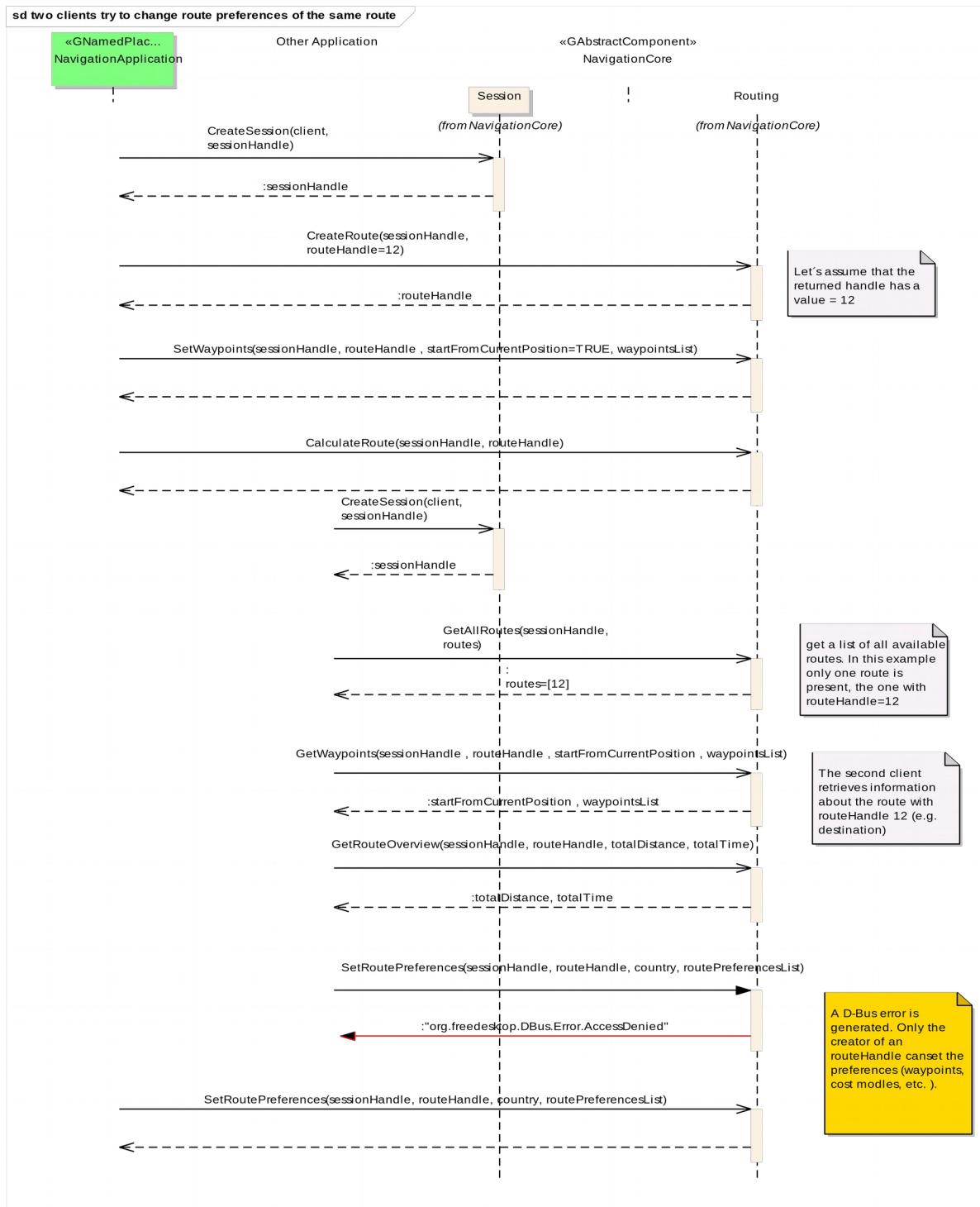
5.2.3 navigation application gets list of segments



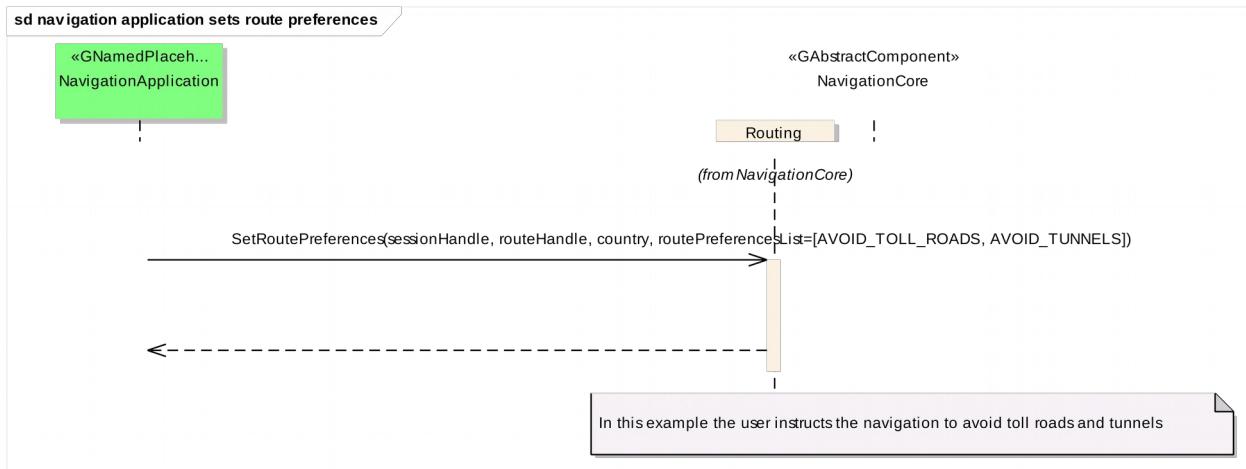
5.2.4 navigation application enters destination



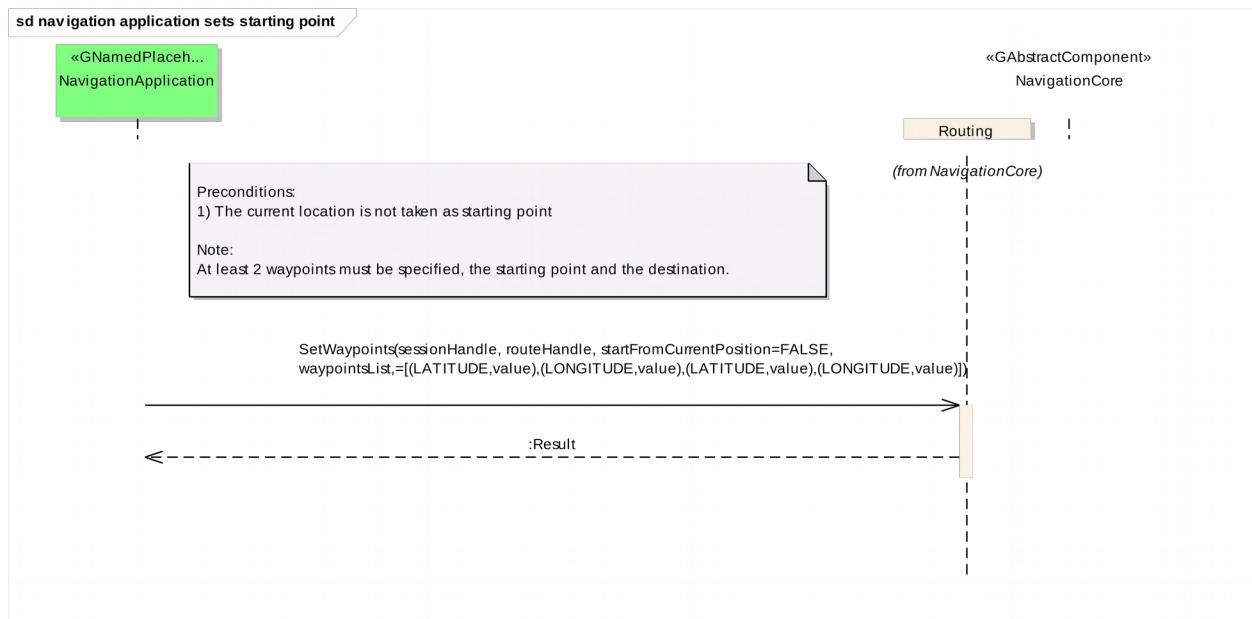
5.2.5 two clients try to change route preferences of the same route



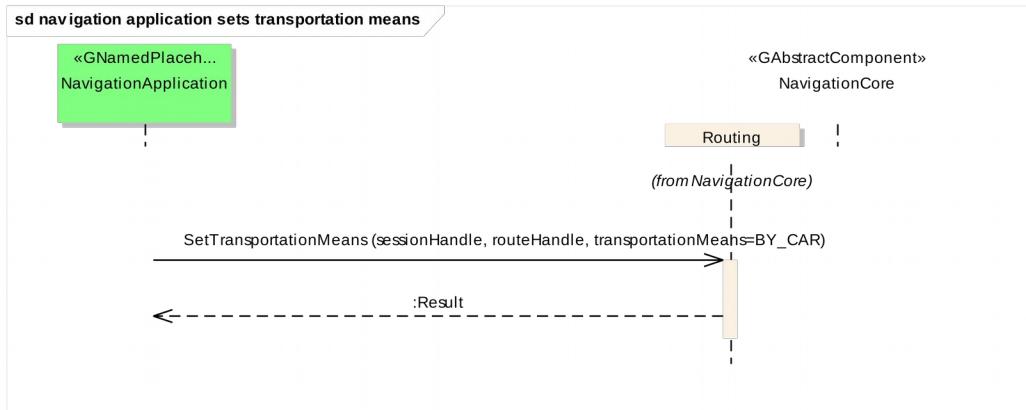
5.2.6 navigation application sets route preferences



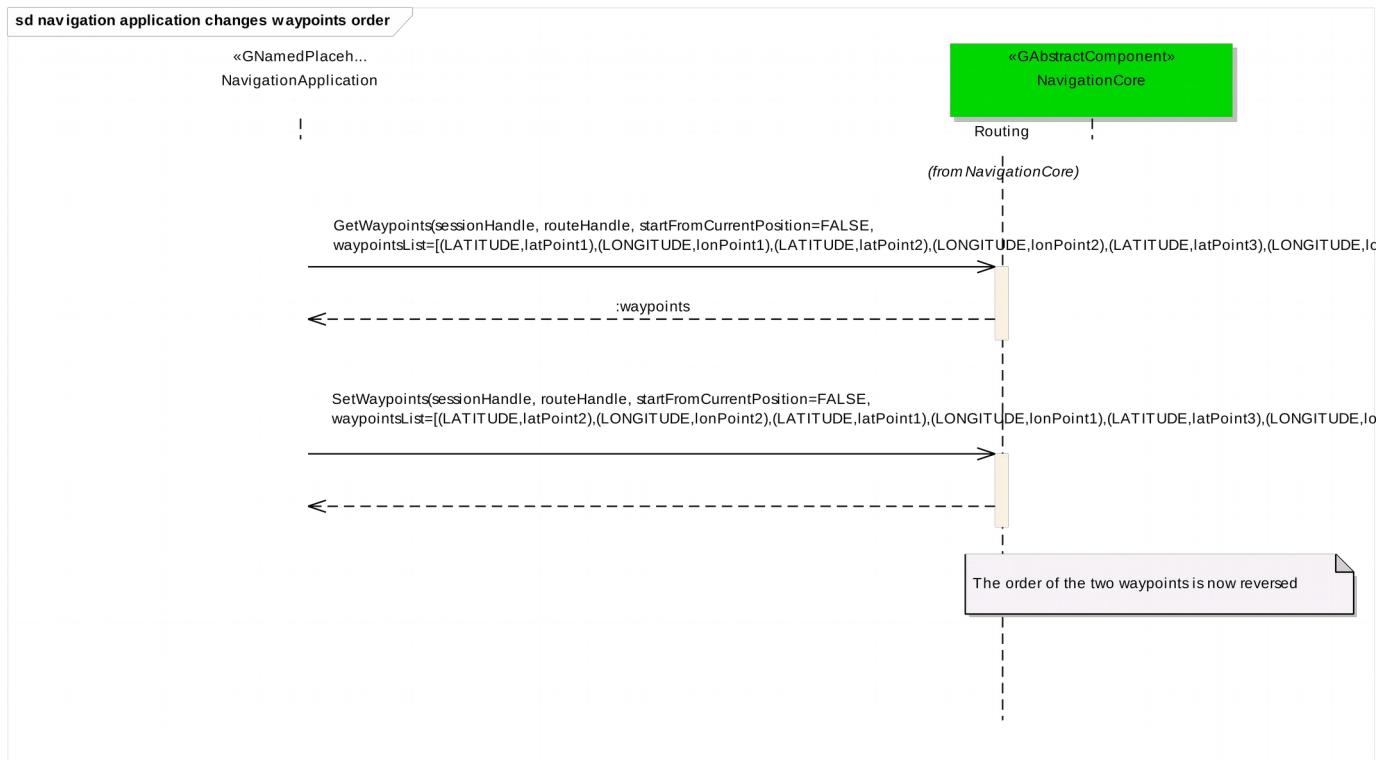
5.2.7 navigation application sets starting point



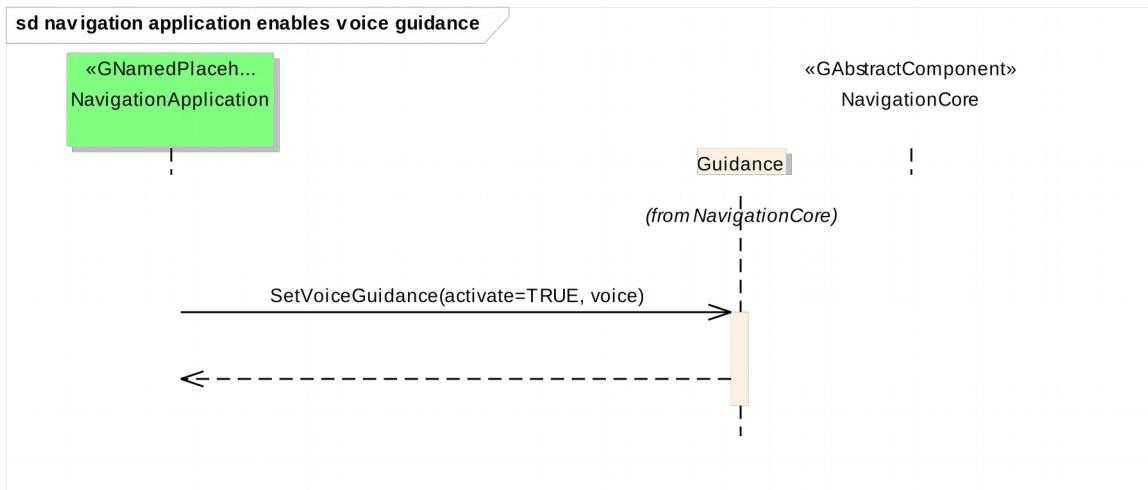
5.2.8 navigation application sets transportation means



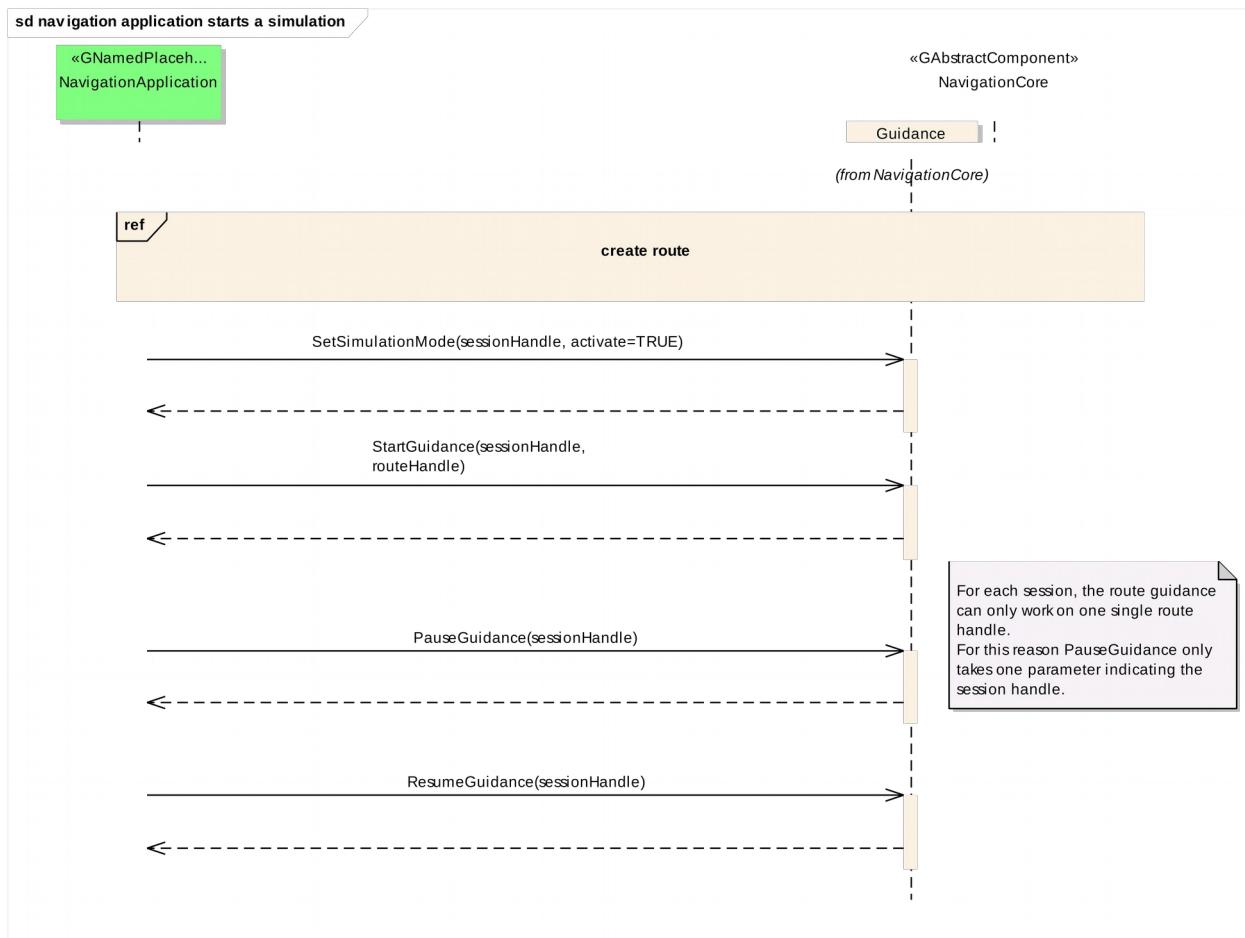
5.2.9 navigation application changes waypoints order



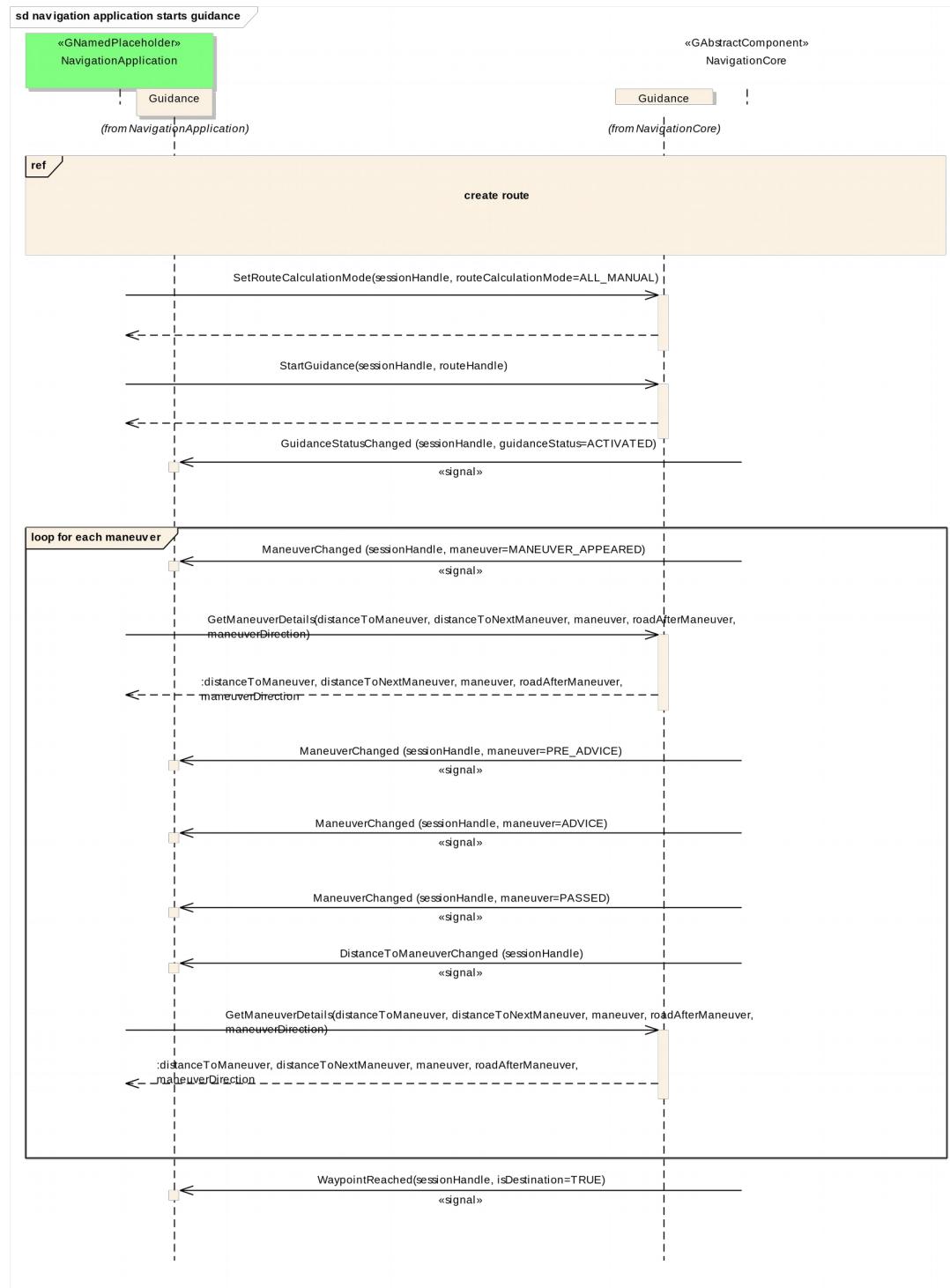
5.2.10 navigation application enables voice guidance



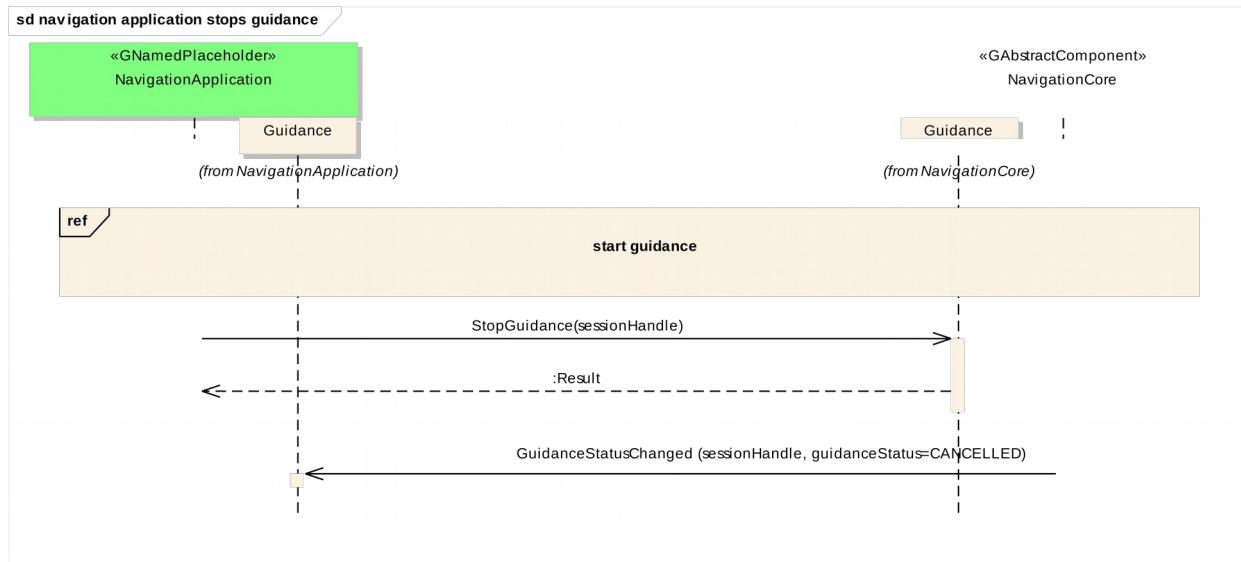
5.2.11 navigation application starts a simulation



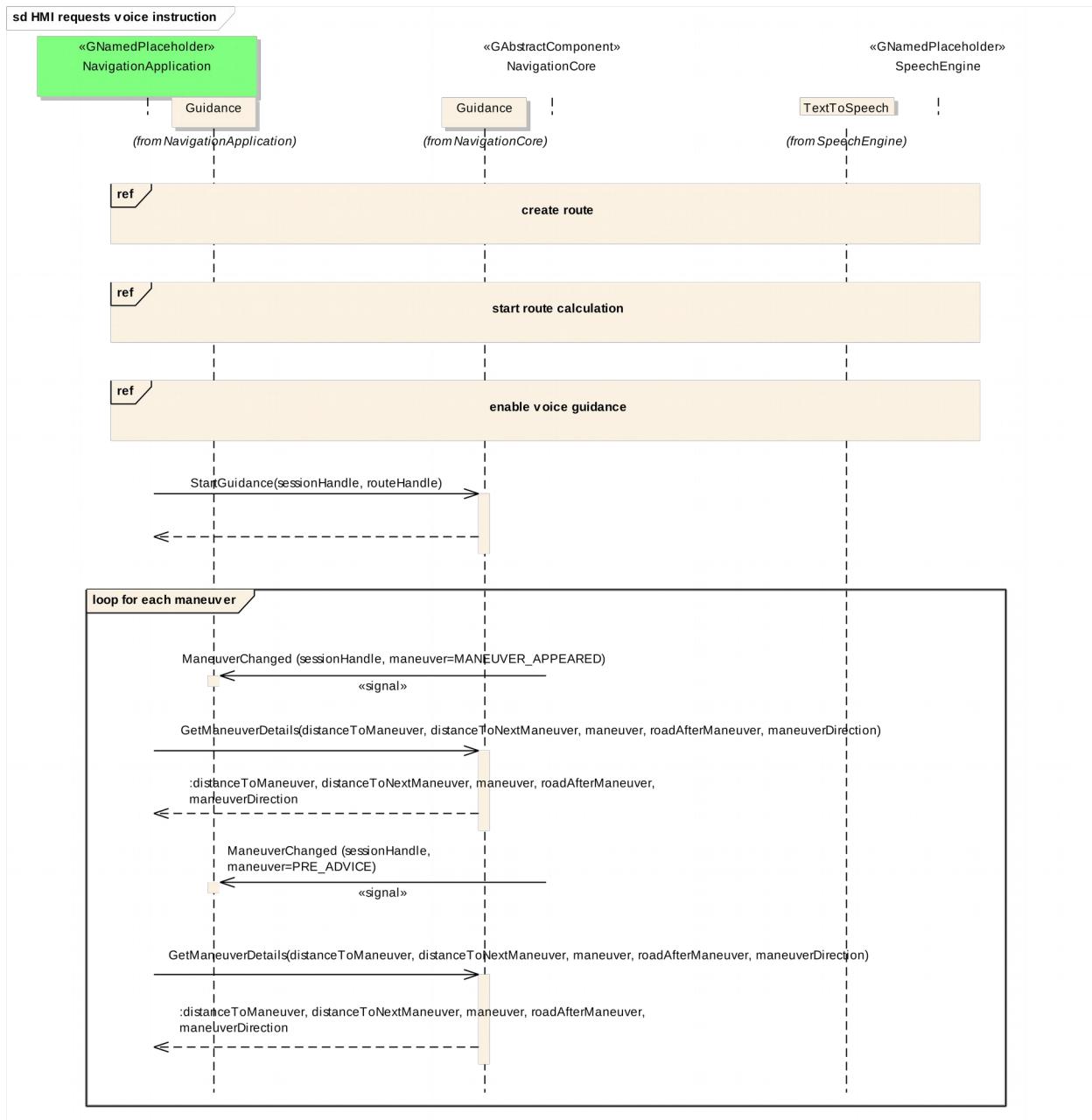
5.2.12 navigation application starts guidance



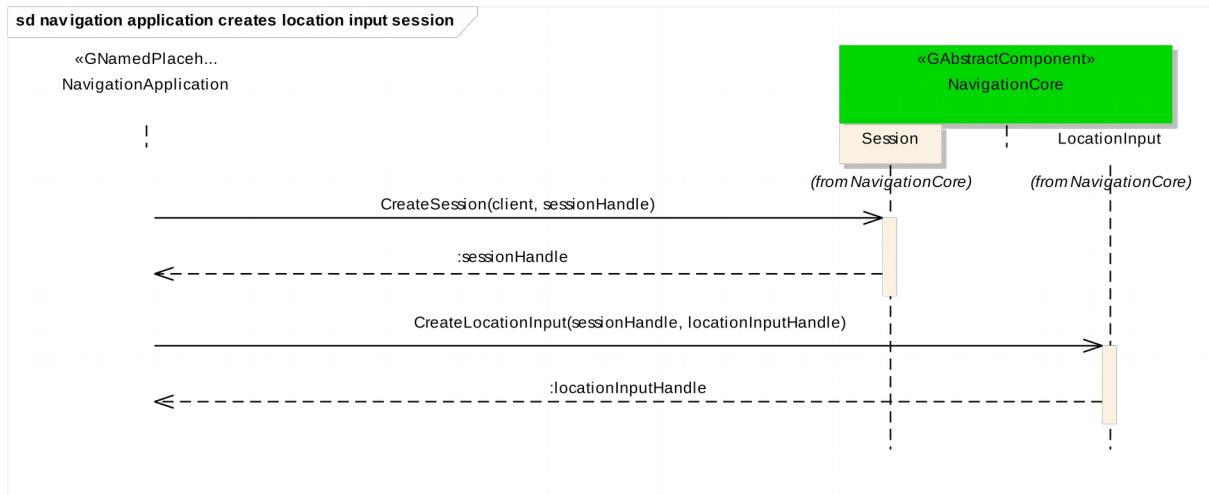
5.2.13 navigation application stops guidance



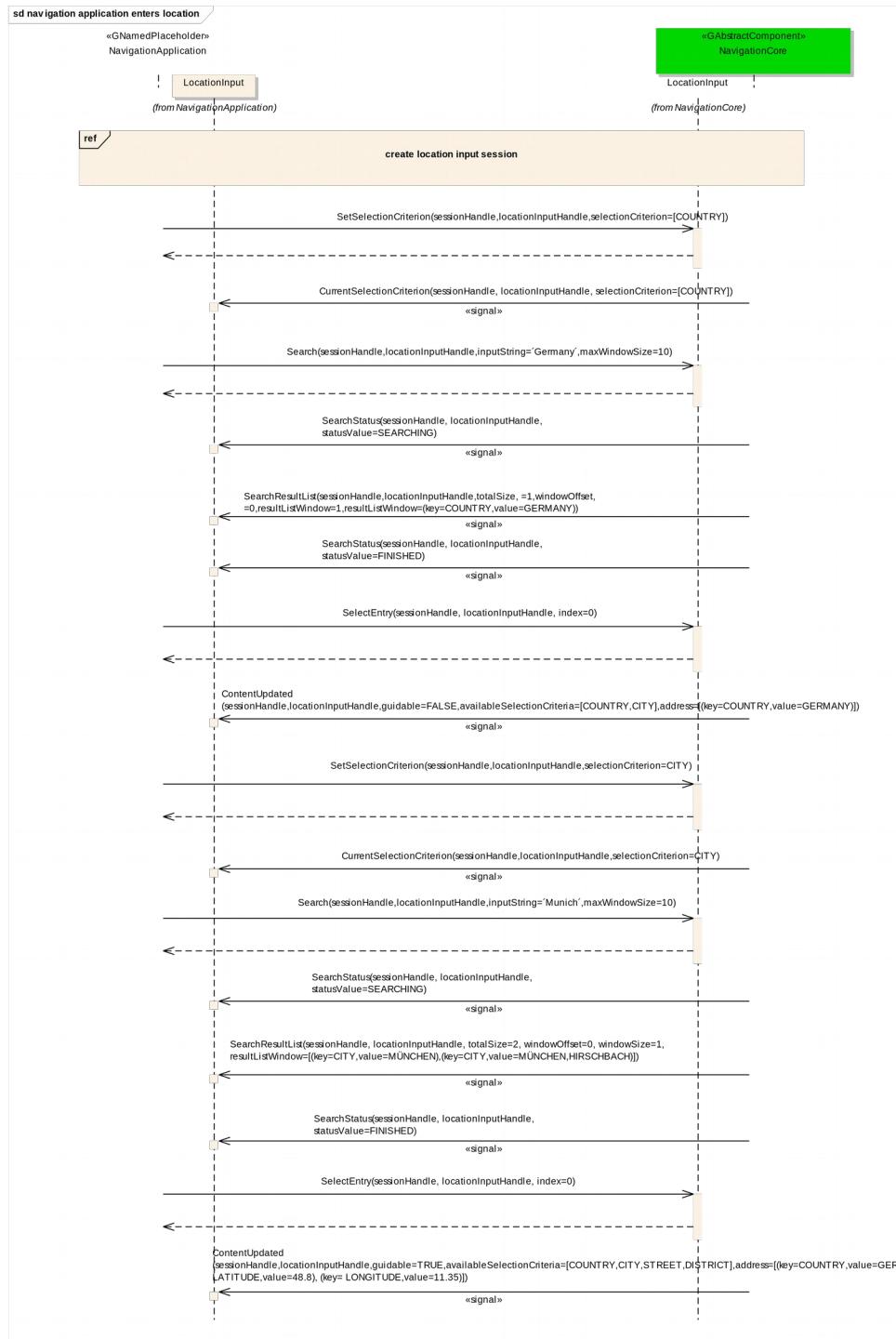
5.2.14 HMI requests voice instruction



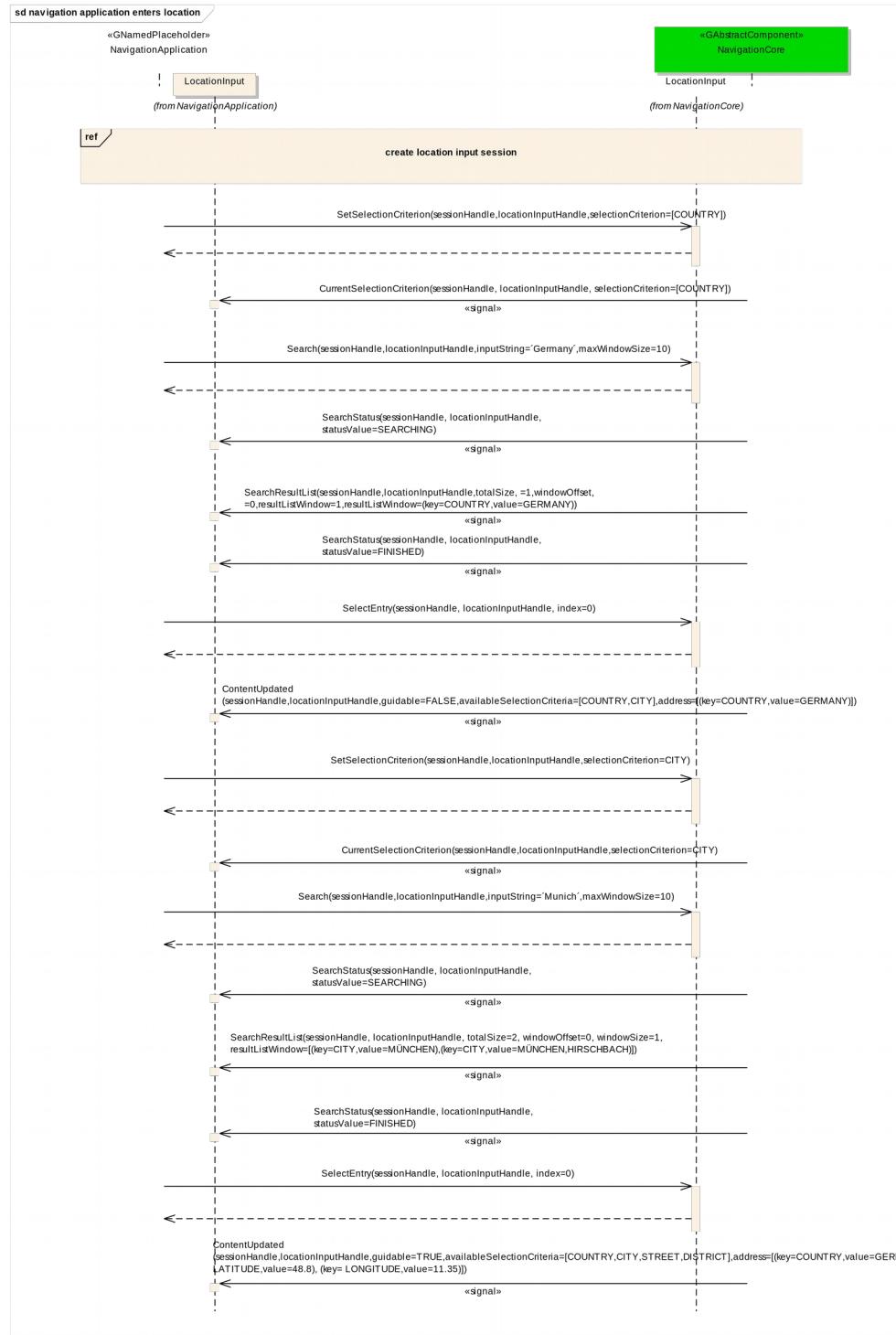
5.2.15 navigation application creates location input session



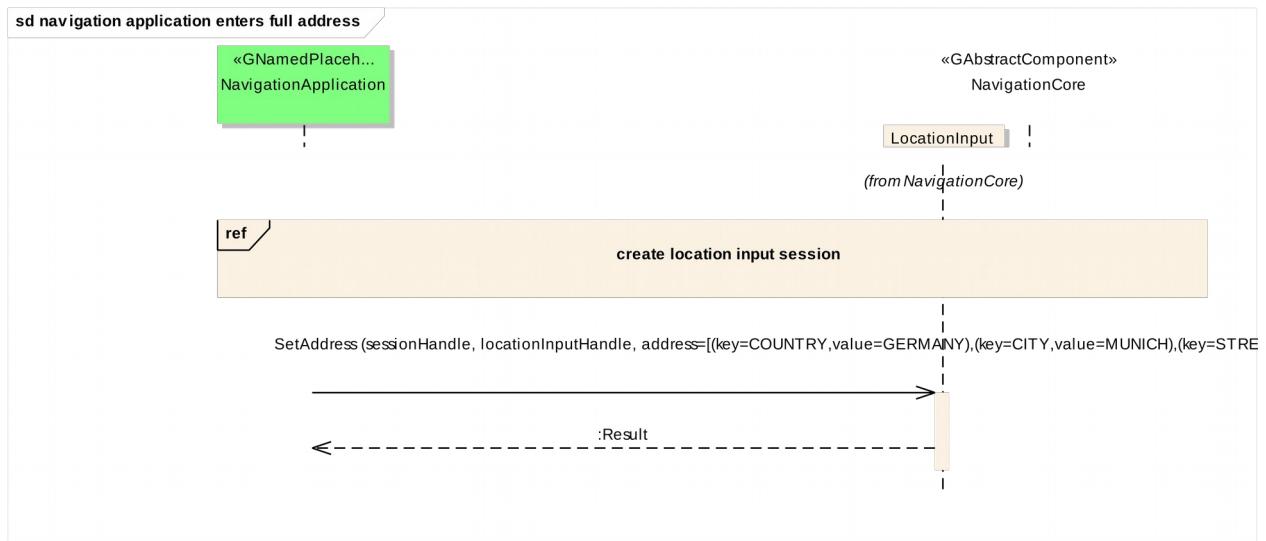
5.2.16 navigation application enters location



5.2.17 navigation application enters location using speller



5.2.18 navigation application enters full address



5.3 Interfaces

POIService

Generated by Doxygen 1.8.11

Contents

1 Namespace Documentation	1
1.1 org Module Reference	1
1.2 org::genivi Module Reference	2
1.3 org::genivi::navigation Module Reference	2
1.4 org::genivi::navigation::poiservice Module Reference	2
 2 Class Documentation	 2
2.1 org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails Struct Reference	2
2.1.1 Member Data Documentation	2
2.2 org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue Union Reference	3
2.2.1 Member Data Documentation	3
2.3 org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory Struct Reference	3
2.3.1 Member Data Documentation	3
2.4 org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate Struct Reference	3
2.4.1 Member Data Documentation	4
2.5 org::genivi::navigation::poiservice::POIServiceTypes::Category Struct Reference	4
2.5.1 Member Data Documentation	4
2.6 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndLevel Struct Reference	4
2.6.1 Member Data Documentation	4
2.7 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName Struct Reference	5
2.7.1 Member Data Documentation	5
2.8 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndRadius Struct Reference	5
2.8.1 Member Data Documentation	5
2.9 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndReason Struct Reference	5
2.9.1 Member Data Documentation	6
2.10 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndStatus Struct Reference	6
2.10.1 Member Data Documentation	6
2.11 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute Struct Reference	6
2.11.1 Member Data Documentation	6

2.12 org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails Struct Reference	7
2.12.1 Member Data Documentation	7
2.13 org::genivi::navigation::poiservice::POIServiceTypes::CategorySortOption Struct Reference	7
2.13.1 Member Data Documentation	7
2.14 org::genivi::navigation::poiservice::POIServiceTypes::Details Struct Reference	8
2.14.1 Member Data Documentation	8
2.15 org::genivi::navigation::poiservice::POIServiceTypes::Icon Union Reference	8
2.15.1 Member Data Documentation	8
2.16 org::genivi::navigation::poiservice::POIServiceTypes::Media Union Reference	8
2.16.1 Member Data Documentation	9
2.17 org::genivi::navigation::poiservice::POIServiceTypes::Operator Struct Reference	9
2.17.1 Member Data Documentation	9
2.18 org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails Struct Reference	9
2.18.1 Member Data Documentation	9
2.19 org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute Struct Reference	10
2.19.1 Member Data Documentation	10
2.20 org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails Struct Reference	10
2.20.1 Member Data Documentation	10
2.21 org::genivi::navigation::poiservice::POIConfiguration Interface Reference	11
2.21.1 Detailed Description	11
2.21.2 Member Typedef Documentation	11
2.21.3 Member Enumeration Documentation	11
2.21.4 Member Function Documentation	12
2.21.5 Member Data Documentation	14
2.22 org::genivi::navigation::poiservice::POIConfiguration_client Interface Reference	14
2.22.1 Member Function Documentation	14
2.23 org::genivi::navigation::poiservice::POIContentAccess Interface Reference	14
2.23.1 Detailed Description	14
2.23.2 Member Function Documentation	15
2.24 org::genivi::navigation::poiservice::POIContentAccessModule Interface Reference	16

2.24.1 Detailed Description	16
2.24.2 Member Function Documentation	16
2.25 org::genivi::navigation::poiservice::POIContentAccessModule_client Interface Reference	18
2.25.1 Member Function Documentation	18
2.26 org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails Struct Reference	19
2.26.1 Member Data Documentation	19
2.27 org::genivi::navigation::poiservice::POISearch Interface Reference	19
2.27.1 Detailed Description	20
2.27.2 Member Function Documentation	20
2.28 org::genivi::navigation::poiservice::POISearch_client Interface Reference	22
2.28.1 Member Function Documentation	22
2.29 org::genivi::navigation::poiservice::POIServiceTypes Interface Reference	23
2.29.1 Member Typedef Documentation	24
2.29.2 Member Enumeration Documentation	24
2.30 org::genivi::navigation::poiservice::POIServiceTypes::SearchResult Struct Reference	29
2.30.1 Member Data Documentation	29
2.31 org::genivi::navigation::poiservice::POIServiceTypes::SearchResultDetails Struct Reference	29
2.31.1 Member Data Documentation	30
3 File Documentation	30
3.1 POIConfiguration.fidl File Reference	30
3.2 POIContentAccess.fidl File Reference	30
3.3 POIContentAccessModule.fidl File Reference	30
3.4 POISearch.fidl File Reference	31
3.5 POIServiceTypes.fidl File Reference	31
Index	33

1 Namespace Documentation

1.1 org Module Reference

Modules

- genivi

1.2 org::genivi Module Reference

Modules

- [navigation](#)

1.3 org::genivi::navigation Module Reference

Modules

- module [poiservice](#)

1.4 org::genivi::navigation::poiservice Module Reference

Classes

- interface [POIConfiguration](#)
- interface [POIConfiguration_client](#)
- interface [POIContentAccess](#)
- interface [POIContentAccessModule](#)
- interface [POIContentAccessModule_client](#)
- interface [POISearch](#)
- interface [POISearch_client](#)
- interface [POIServiceTypes](#)

2 Class Documentation

2.1 org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails Struct Reference

Public Attributes

- [AttributeID id](#)
- [CategoryID categoryId](#)
- [AttributeType type](#)
- [AttributeValue value](#)
- [OperatorType oper](#)
- Boolean [mandatory](#)

2.1.1 Member Data Documentation

2.1.1.1 CategoryID [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::categoryId](#)

2.1.1.2 AttributeID [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::id](#)

2.1.1.3 Boolean [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::mandatory](#)

2.1.1.4 OperatorType [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::oper](#)

2.1.1.5 AttributeType [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::type](#)

2.1.1.6 AttributeValue [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails::value](#)

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

- [POIServiceTypes.fidl](#)

2.2 org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue Union Reference

Public Attributes

- Int32 [intValue](#)
- String [stringValue](#)
- Boolean [boolValue](#)

2.2.1 Member Data Documentation

2.2.1.1 Boolean [org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue::boolValue](#)

2.2.1.2 Int32 [org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue::intValue](#)

2.2.1.3 String [org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue::stringValue](#)

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

- [POIServiceTypes.fidl](#)

2.3 org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory Struct Reference

Public Attributes

- Details [details](#)
- CategoryAttribute[] [attributeList](#)
- CategorySortOption[] [sortOptions](#)

2.3.1 Member Data Documentation

2.3.1.1 CategoryAttribute [] [org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory::attributeList](#)

2.3.1.2 Details [org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory::details](#)

2.3.1.3 CategorySortOption [] [org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory::sortOptions](#)

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

- [POIServiceTypes.fidl](#)

2.4 org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate Struct Reference

Public Attributes

- CategoryID [id](#)
- CategoryAttribute[] [attributeList](#)
- CategorySortOption[] [sortOptions](#)

2.4.1 Member Data Documentation

2.4.1.1 **CategoryAttribute** [] org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate::attributeList

2.4.1.2 **CategoryID** org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate::id

2.4.1.3 **CategorySortOption** [] org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate::sortOptions

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

- [POIServiceTypes.fidl](#)

2.5 org::genivi::navigation::poiservice::POIServiceTypes::Category Struct Reference

Public Attributes

- [CategoryDetails details](#)
- [CategoryAttribute\[\] attributeList](#)
- [CategorySortOption\[\] sortOptions](#)

2.5.1 Member Data Documentation

2.5.1.1 **CategoryAttribute** [] org::genivi::navigation::poiservice::POIServiceTypes::Category::attributeList

2.5.1.2 **CategoryDetails** org::genivi::navigation::poiservice::POIServiceTypes::Category::details

2.5.1.3 **CategorySortOption** [] org::genivi::navigation::poiservice::POIServiceTypes::Category::sortOptions

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

- [POIServiceTypes.fidl](#)

2.6 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndLevel Struct Reference

Public Attributes

- [CategoryID uniqueId](#)
- [Boolean topLevel](#)

2.6.1 Member Data Documentation

2.6.1.1 **Boolean** org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndLevel::topLevel

2.6.1.2 **CategoryID** org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndLevel::uniqueId

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

- [POIServiceTypes.fidl](#)

2.7 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName Struct Reference

Public Attributes

- CategoryID [uniqueId](#)
- String [name](#)
- Boolean [topLevel](#)

2.7.1 Member Data Documentation

2.7.1.1 String [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName::name](#)

2.7.1.2 Boolean [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName::topLevel](#)

2.7.1.3 CategoryID [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName::uniqueId](#)

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

- [POIServiceTypes.fidl](#)

2.8 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndRadius Struct Reference

Public Attributes

- CategoryID [id](#)
- UInt32 [radius](#)

2.8.1 Member Data Documentation

2.8.1.1 CategoryID [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndRadius::id](#)

2.8.1.2 UInt32 [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndRadius::radius](#)

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

- [POIServiceTypes.fidl](#)

2.9 org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndReason Struct Reference

Public Attributes

- CategoryID [unique_id](#)
- [UpdateReason reason](#)

2.9.1 Member Data Documentation

2.9.1.1 **UpdateReason** `org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndReason::reason`

2.9.1.2 **CategoryID** `org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndReason::unique_id`

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

- [POIServiceTypes.fidl](#)

2.10 `org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndStatus Struct Reference`

Public Attributes

- `CategoryID uniqueId`
- `Boolean status`

2.10.1 Member Data Documentation

2.10.1.1 `Boolean org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndStatus::status`

2.10.1.2 `CategoryID org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndStatus::uniqueId`

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

- [POIServiceTypes.fidl](#)

2.11 `org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute Struct Reference`

Public Attributes

- `AttributeID id`
- `String name`
- `AttributeType type`
- `Operator[] operators`

2.11.1 Member Data Documentation

2.11.1.1 `AttributeID org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute::id`

2.11.1.2 `String org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute::name`

2.11.1.3 `Operator[] org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute::operators`

2.11.1.4 `AttributeType org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute::type`

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

- [POIServiceTypes.fidl](#)

2.12 org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails Struct Reference

Public Attributes

- CategoryID [uniqueId](#)
- StandardCategory [standardCategoryId](#)
- CategoryID[] [parentsId](#)
- Icon [icons](#)
- String [name](#)
- Boolean [topLevel](#)
- String [description](#)
- Media [media](#)

2.12.1 Member Data Documentation

2.12.1.1 String [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::description](#)

2.12.1.2 Icon [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::icons](#)

2.12.1.3 Media [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::media](#)

2.12.1.4 String [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::name](#)

2.12.1.5 CategoryID [] [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::parentsId](#)

2.12.1.6 StandardCategory [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::standardCategoryId](#)

2.12.1.7 Boolean [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::topLevel](#)

2.12.1.8 CategoryID [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails::uniqueId](#)

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

- [POIServiceTypes.fidl](#)

2.13 org::genivi::navigation::poiservice::POIServiceTypes::CategorySortOption Struct Reference

Public Attributes

- CategoryID [id](#)
- String [name](#)

2.13.1 Member Data Documentation

2.13.1.1 CategoryID [org::genivi::navigation::poiservice::POIServiceTypes::CategorySortOption::id](#)

2.13.1.2 String [org::genivi::navigation::poiservice::POIServiceTypes::CategorySortOption::name](#)

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

- [POIServiceTypes.fidl](#)

2.14 org::genivi::navigation::poiservice::POIServiceTypes::Details Struct Reference

Public Attributes

- CategoryID[] [parentsId](#)
- [Icon icons](#)
- String [name](#)
- String [shortDesc](#)
- [Media media](#)

2.14.1 Member Data Documentation

2.14.1.1 [Icon org::genivi::navigation::poiservice::POIServiceTypes::Details::icons](#)

2.14.1.2 [Media org::genivi::navigation::poiservice::POIServiceTypes::Details::media](#)

2.14.1.3 String [org::genivi::navigation::poiservice::POIServiceTypes::Details::name](#)

2.14.1.4 CategoryID [] [org::genivi::navigation::poiservice::POIServiceTypes::Details::parentsId](#)

2.14.1.5 String [org::genivi::navigation::poiservice::POIServiceTypes::Details::shortDesc](#)

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

- [POIServiceTypes.fidl](#)

2.15 org::genivi::navigation::poiservice::POIServiceTypes::Icon Union Reference

Public Attributes

- ResourceID[] [id](#)
- String [url](#)

2.15.1 Member Data Documentation

2.15.1.1 ResourceID [] [org::genivi::navigation::poiservice::POIServiceTypes::Icon::id](#)

2.15.1.2 String [org::genivi::navigation::poiservice::POIServiceTypes::Icon::url](#)

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

- [POIServiceTypes.fidl](#)

2.16 org::genivi::navigation::poiservice::POIServiceTypes::Media Union Reference

Public Attributes

- ResourceID[] [id](#)
- String [url](#)

2.16.1 Member Data Documentation

2.16.1.1 **ResourceID** [] org::genivi::navigation::poiservice::POIServiceTypes::Media::id

2.16.1.2 **String** org::genivi::navigation::poiservice::POIServiceTypes::Media::url

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

- [POIServiceTypes.fidl](#)

2.17 org::genivi::navigation::poiservice::POIServiceTypes::Operator Struct Reference

Public Attributes

- **OperatorType** type
- **String** name
- **AttributeValue** value

2.17.1 Member Data Documentation

2.17.1.1 **String** org::genivi::navigation::poiservice::POIServiceTypes::Operator::name

2.17.1.2 **OperatorType** org::genivi::navigation::poiservice::POIServiceTypes::Operator::type

2.17.1.3 **AttributeValue** org::genivi::navigation::poiservice::POIServiceTypes::Operator::value

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

- [POIServiceTypes.fidl](#)

2.18 org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails Struct Reference

Public Attributes

- **String** name
- **Coordinate3D** location
- **PoiAttribute**[] attributeList

2.18.1 Member Data Documentation

2.18.1.1 **PoiAttribute** [] org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails::attributeList

2.18.1.2 **Coordinate3D** org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails::location

2.18.1.3 **String** org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails::name

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

- [POIServiceTypes.fidl](#)

2.19 org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute Struct Reference

Public Attributes

- [AttributeID id](#)
- [AttributeType type](#)
- [AttributeValue value](#)

2.19.1 Member Data Documentation

2.19.1.1 [AttributeID org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute::id](#)

2.19.1.2 [AttributeType org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute::type](#)

2.19.1.3 [AttributeValue org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute::value](#)

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

- [POIServiceTypes.fidl](#)

2.20 org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails Struct Reference

Public Attributes

- [POI_ID sourceld](#)
- String [name](#)
- CategoryID [category](#)
- Coordinate3D [location](#)
- UInt16 [distance](#)
- [PoiAttribute\[\] attributeList](#)

2.20.1 Member Data Documentation

2.20.1.1 [PoiAttribute \[\] org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::attributeList](#)

2.20.1.2 [CategoryID org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::category](#)

2.20.1.3 [UInt16 org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::distance](#)

2.20.1.4 [Coordinate3D org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::location](#)

2.20.1.5 [String org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::name](#)

2.20.1.6 [POI_ID org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails::sourceld](#)

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

- [POIServiceTypes.fidl](#)

2.21 org::genivi::navigation::poiservice::POIConfiguration Interface Reference

Public Types

- enum `UnitsOfMeasurementAttribute` { `INVALID` = 0, `LENGTH` = 49 }
- enum `UnitsOfMeasurementValue` {
 `METER` = 50, `MILE` = 51, `KM` = 52, `YARD` = 53,
`FOOT` = 54 }
- enum `Units` {
 `METER` = 50, `MILE` = 51, `KM` = 52, `YARD` = 53,
`FOOT` = 54 }
- enum `TimeFormat` { `INVALID` = 0, `TWELVEH` = 1, `TWENTYFOURH` = 2 }
- 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` `unitsOfMeasurementList`)
- void `getUnitsOfMeasurement` (out `UnitsOfMeasurement` `unitsOfMeasurementList`)
- void `getSupportedUnitsOfMeasurement` (out `UnitsOfMeasurementList` `unitsOfMeasurementList`)

Public Attributes

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

2.21.1 Detailed Description

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

2.21.2 Member Typedef Documentation

2.21.2.1 typedef `UnitsOfMeasurementValue[] org::genivi::navigation::poiservice::POIConfiguration::UnitsOfMeasurementListValue`

2.21.3 Member Enumeration Documentation

2.21.3.1 enum `org::genivi::navigation::poiservice::POIConfiguration::CoordinatesFormat`

Enumerator

`INVALID`
`DEGREES`
`MINUTES`
`SECONDS`

2.21.3.2 enum org::genivi::navigation::poiservice::POIConfiguration::TimeFormat

Enumerator

INVALID

TWELVEH

TWENTYFOURH

2.21.3.3 enum org::genivi::navigation::poiservice::POIConfiguration::Units

Enumerator

METER

MILE

KM

YARD

FOOT

2.21.3.4 enum org::genivi::navigation::poiservice::POIConfiguration::UnitsOfMeasurementAttribute

Enumerator

INVALID

LENGTH

2.21.3.5 enum org::genivi::navigation::poiservice::POIConfiguration::UnitsOfMeasurementValue

Enumerator

METER

MILE

KM

YARD

FOOT

2.21.4 Member Function Documentation

2.21.4.1 void org::genivi::navigation::poiservice::POIConfiguration::getCoordinatesFormat (out CoordinatesFormat *coordinatesFormat*)

#comment : Get the coordinates format .

2.21.4.2 void org::genivi::navigation::poiservice::POIConfiguration::getLocale (out String *languageCode*, out String *countryCode*, out String *scriptCode*)

#comment : Get the current language set .

2.21.4.3 void org::genivi::navigation::poiservice::POIConfiguration::getSupportedCoordinatesFormat (out CoordinatesFormat *coordinatesFormatList*)

#comment : Get the supported set of coordinates format .

2.21.4.4 void org::genivi::navigation::poiservice::POIConfiguration::getSupportedLocales (*out Locale localeList*)

#comment : Get the supported set of locales .

2.21.4.5 void org::genivi::navigation::poiservice::POIConfiguration::getSupportedTimeFormats (*out TimeFormat timeFormatList*)

#comment : Get the supported set of time format .

2.21.4.6 void org::genivi::navigation::poiservice::POIConfiguration::getSupportedUnitsOfMeasurement (*out UnitsOfMeasurementList unitsOfMeasurementList*)

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

2.21.4.7 void org::genivi::navigation::poiservice::POIConfiguration::getTimeFormat (*out TimeFormat format*)

#comment : Get the current time format .

2.21.4.8 void org::genivi::navigation::poiservice::POIConfiguration::getUnitsOfMeasurement (*out UnitsOfMeasurement unitsOfMeasurementList*)

#comment : Get the units of measurement .

2.21.4.9 void org::genivi::navigation::poiservice::POIConfiguration::getVersion (*out Version version*)

#comment : This method returns the API version .

2.21.4.10 void org::genivi::navigation::poiservice::POIConfiguration::setCoordinatesFormat (*in CoordinatesFormat coordinatesFormat*)

#comment : Set the coordinates format.

2.21.4.11 void org::genivi::navigation::poiservice::POIConfiguration::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.

2.21.4.12 void org::genivi::navigation::poiservice::POIConfiguration::setTimeFormat (*in TimeFormat format*)

#comment : Set the time format.

2.21.4.13 void org::genivi::navigation::poiservice::POIConfiguration::setUnitsOfMeasurement (*in UnitsOfMeasurement unitsOfMeasurementList*)

#comment : Set the units of measurement .

2.21.5 Member Data Documentation

2.21.5.1 map_UnitsOfMeasurement org::genivi::navigation::poiservice::POIConfiguration::UnitsOfMeasurementAttribute => UnitsOfMeasurementValue

2.21.5.2 map_UnitsOfMeasurementList org::genivi::navigation::poiservice::POIConfiguration::UnitsOfMeasurementAttribute => UnitsOfMeasurementListValue

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

- [POIConfiguration.fidl](#)

2.22 org::genivi::navigation::poiservice::POIConfiguration_client Interface Reference

Public Member Functions

- void [configurationChanged](#) (in Settings changedSettings)

2.22.1 Member Function Documentation

2.22.1.1 void org::genivi::navigation::poiservice::POIConfiguration_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:

- [POIConfiguration.fidl](#)

2.23 org::genivi::navigation::poiservice::POIContentAccess Interface Reference

Public Member Functions

- void [registerContentAccessModule](#) (in String moduleName, out ContentAccessModuleID camId)
- void [unRegisterContentAccessModule](#) (in ContentAccessModuleID camId)
- void [registerPoiCategories](#) (in ContentAccessModuleID camId, in CategoryID poiCategories)
- void [updateCategories](#) (in ContentAccessModuleID camId, in CAMCategoryUpdate poiCategories)
- void [addCategories](#) (in ContentAccessModuleID camId, in CAMCategory poiCategories, out CategoryID poiCategoriesId)
- void [removeCategories](#) (in ContentAccessModuleID camId, in CategoryID poiCategories)

2.23.1 Detailed Description

#comment : This interface offers a set of common methods for Content Access Modules (CAM). The CAM provide and update POI and categories information from remote sources to the POIService modules.

2.23.2 Member Function Documentation

2.23.2.1 void org::genivi::navigation::poiservice::POIContentAccess::addCategories (in ContentAccessModuleID *camId*, in CAMCategory *poiCategories*, out CategoryID *poiCategoriesId*)

#comment : Add new categories to the POI service component. The CAM provides for each categories the name, the parent categories, the top level attribute, the list of attributes, the icons,

2.23.2.2 void org::genivi::navigation::poiservice::POIContentAccess::registerContentAccessModule (in String *moduleName*, out ContentAccessModuleID *camId*)

#comment : Register to the POI provider module When the CAM registers, it provides a name and then get a unique id. This id must be used everytime the CAM communicates with the POI service component. After the registration is done, the CAM can start to update POI categories and POI attributes as well as registers POI categories to search for.

2.23.2.3 void org::genivi::navigation::poiservice::POIContentAccess::registerPoiCategories (in ContentAccessModuleID *camId*, in CategoryID *poiCategories*)

#comment : Register to the POI provider module the categories you can search for POI. The categories could be predefined one or customized ones. In order to register a customized category, you might need to create it before and add it to the POI service component.

2.23.2.4 void org::genivi::navigation::poiservice::POIContentAccess::removeCategories (in ContentAccessModuleID *camId*, in CategoryID *poiCategories*)

#comment : Remove categories from the POI service component. It could be a predefined or a customized one. Depending on the local database write policy, the CAM might only not be able to remove some categories.

2.23.2.5 void org::genivi::navigation::poiservice::POIContentAccess::unRegisterContentAccessModule (in ContentAccessModuleID *camId*)

#comment : Remove CAM from POI provider module.

2.23.2.6 void org::genivi::navigation::poiservice::POIContentAccess::updateCategories (in ContentAccessModuleID *camId*, in CAMCategoryUpdate *poiCategories*)

#comment : Update categories in the POI service component. It could be a predefined or a customized one. The CAM provides for each categories the list of attributes (mandatory like name or optional) it wants to update. Depending on the local database write policy, the CAM might only be able to update customized attributes for a category and not the predefined ones so some update could be rejected.

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

- [POIContentAccess.fidl](#)

2.24 org::genivi::navigation::poiservice::POIContentAccessModule Interface Reference

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 `getAvailableCategories` (out CategoryAndName *categories*)
- void `getRootCategory` (out CategoryID *category*)
- void `getChildrenCategories` (in CategoryID *category*, out CategoryAndLevel *categories*)
- void `getParentCategories` (in CategoryID *category*, out CategoryAndLevel *categories*)
- void `createCategory` (in CAMCategory *category*, out CategoryID *unique_id*)
- void `removeCategories` (in CategoryID *categories*)
- void `addPOIs` (in CategoryID *unique_id*, in PoiAddedDetails *poiList*)
- void `removePOIs` (in POI_ID *ids*)
- void `poiSearchStarted` (in Handle *poiSearchHandle*, in UInt16 *maxSize*, in Coordinate3D *location*, in CategoryAndRadius *poiCategories*, in AttributeDetails *poiAttributes*, in String *inputString*, in SortOption *sort←Option*)
- void `poiSearchCanceled` (in Handle *poiSearchHandle*)
- void `resultListRequested` (in ContentAccessModuleID *camId*, in Handle *poiSearchHandle*, in AttributeID *attributeList*, out SearchStatusState *statusValue*, out UInt16 *resultListSize*, out PoiCAMDetails *resultList*)
- void `poiDetailsRequested` (in POI_ID *source_id*, out SearchResultDetails *results*)

2.24.1 Detailed Description

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

2.24.2 Member Function Documentation

2.24.2.1 void org::genivi::navigation::poiservice::POIContentAccessModule::addPOIs (in CategoryID *unique_id*, in PoiAddedDetails *poiList*)

#comment : Adds a list of POIs to a category. Because of required time to add it to the database, a signal is emitted when the update is done, that gives the id of the elements added

2.24.2.2 void org::genivi::navigation::poiservice::POIContentAccessModule::createCategory (in CAMCategory *category*, out CategoryID *unique_id*)

#comment : Creates a category by name and return an unique id.

2.24.2.3 void org::genivi::navigation::poiservice::POIContentAccessModule::getAvailableCategories (out CategoryAndName *categories*)

#comment : This method retrieves the list od POI categories available (pre-defined and custom).

2.24.2.4 void org::genivi::navigation::poiservice::POIContentAccessModule::getChildrenCategories (in CategoryID *category*, out CategoryAndLevel *categories*)

#comment : Get the children categories id and type (top level) from the a parent unique id.

2.24.2.5 void org::genivi::navigation::poiservice::POIContentAccessModule::getLocale (out String *languageCode*, out String *countryCode*, out String *scriptCode*)

#comment : Get the current language set for the search by poi provider module.

2.24.2.6 void org::genivi::navigation::poiservice::POIContentAccessModule::getParentCategories (in CategoryID *category*, out CategoryAndLevel *categories*)

#comment : Get the parent categories id and type (top level) from the a unique id.

2.24.2.7 void org::genivi::navigation::poiservice::POIContentAccessModule::getRootCategory (out CategoryID *category*)

#comment : Get the root category id. That would be ALL_CATEGORIES.

2.24.2.8 void org::genivi::navigation::poiservice::POIContentAccessModule::getSupportedLocales (out Locale *localeList*)

#comment : Get the supported set of locales for the search by poi provider module.

2.24.2.9 void org::genivi::navigation::poiservice::POIContentAccessModule::getVersion (out Version *version*)

#comment : This method returns the API version implemented by the content access module.

2.24.2.10 void org::genivi::navigation::poiservice::POIContentAccessModule::poiDetailsRequested (in POI_ID *source_id*, out SearchResultDetails *results*)

#comment : This method retrieves the details associated to one or more POI. It contains the name, the parent categories, the list of attributes, the icons,

2.24.2.11 void org::genivi::navigation::poiservice::POIContentAccessModule::poiSearchCanceled (in Handle *poiSearchHandle*)

#comment : This method cancels the search for the current id.

2.24.2.12 void org::genivi::navigation::poiservice::POIContentAccessModule::poiSearchStarted (in Handle *poiSearchHandle*, in UInt16 *maxSize*, in Coordinate3D *location*, in CategoryAndRadius *poiCategories*, in AttributeDetails *poiAttributes*, in String *inputString*, in SortOption *sortOption*)

#comment : This method is sent by the POI service component to inform all the CAM that a new POI search was started. It provides all the relevant search parameters. Of course the CAM will only be aware of the search if it registers one of the search categories.

2.24.2.13 void org::genivi::navigation::poiservice::POIContentAccessModule::removeCategories (in CategoryID *categories*)

#comment : Removes a list of categories. Because of required time to remove it from the database, a signal is emitted when the deletion is done.

2.24.2.14 void org::genivi::navigation::poiservice::POIContentAccessModule::removePOIs (in POI_ID *ids*)

#comment : Removes a list of POIs to a category. Because of required time to remove it from the database, a signal is emitted when the update is done.

2.24.2.15 void org::genivi::navigation::poiservice::POIContentAccessModule::resultListRequested (in ContentAccessModuleID *camId*, in Handle *poiSearchHandle*, in AttributeID *attributeList*, out SearchStatusState *statusValue*, out UInt16 *resultListSize*, out PoiCAMDetails *resultList*)

#comment : This method provides the poi results list found by the CAM. As the POI unique id is managed by the POI component, the CAM only provides the POI name, the category and coordinates as well as all the relevant detailed information.

2.24.2.16 void org::genivi::navigation::poiservice::POIContentAccessModule::setLocale (in String *languageCode*, in String *countryCode*, in String *scriptCode*)

#comment : Set the current language set for the search by poi provider module. The language defines the poi and categories name and details language. If the language is not supported, the default details will be returned in the native language.

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

- [POIContentAccessModule.fidl](#)

2.25 org::genivi::navigation::poiservice::POIContentAccessModule_client Interface Reference

Public Member Functions

- void [ConfigurationChanged](#) (in Settings *changedSettings*)
- void [CategoriesRemoved](#) (in CategoryID *categories*)
- void [POIAdded](#) (in POI_ID *pois*)
- void [POIRemoved](#) (in POI_ID *pois*)
- void [SearchStatusChanged](#) (in Handle *poiSearchHandle*, in SearchStatusState *statusValue*, in POI_ID *pois*)

2.25.1 Member Function Documentation

2.25.1.1 void org::genivi::navigation::poiservice::POIContentAccessModule_client::CategoriesRemoved (in CategoryID *categories*)

broadcast #comment : CategoriesRemoved = This signal is emitted when a list of categories and associated content has been removed from the database.

2.25.1.2 void org::genivi::navigation::poiservice::POIContentAccessModule_client::ConfigurationChanged (in Settings *changedSettings*)

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

2.25.1.3 void org::genivi::navigation::poiservice::POIContentAccessModule_client::POIAdded (in POI_ID *pois*)

broadcast #comment : POIAdded = This signal is emitted when a list of POIs and associated content has been added to the database. It returns the ids.

2.25.1.4 void org::genivi::navigation::poiservice::POIContentAccessModule_client::POIRemoved (in POI_ID *pois*)

broadcast #comment : POIRemoved = This signal is emitted when a list of POIs and associated content has been removed from the database.

2.25.1.5 void org::genivi::navigation::poiservice::POIContentAccessModule_client::SearchStatusChanged (in Handle *poiSearchHandle*, in SearchStatusState *statusValue*, in POI_ID *pois*)

broadcast #comment : SearchStatusChanged = This signal updates the search or proximity alert status of the specified handle.

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

- [POIContentAccessModule.fidl](#)

2.26 org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails Struct Reference

Public Attributes

- [POI_ID id](#)
- String [name](#)
- Coordinate3D [location](#)

2.26.1 Member Data Documentation

2.26.1.1 POI_ID org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails::id

2.26.1.2 Coordinate3D org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails::location

2.26.1.3 String org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails::name

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

- [POIServiceTypes.fidl](#)

2.27 org::genivi::navigation::poiservice::POISearch Interface Reference

Public Member Functions

- void [getVersion](#) (out Version *version*)
- void [validateCategories](#) (in CategoryID *categories*, out CategoryAndStatus *results*)
- void [getAvailableCategories](#) (out CategoryAndName *categories*)
- void [getRootCategory](#) (out CategoryID *category*)
- void [getChildrenCategories](#) (in CategoryID *category*, out CategoryAndLevel *categories*)
- void [getParentCategories](#) (in CategoryID *category*, out CategoryAndLevel *categories*)
- void [getCategoriesWithStandardCategoryId](#) (in StandardCategory *standardCategoryId*, out CategoryID *categories*)
- void [getCategoriesDetails](#) (in CategoryID *categories*, out Category *results*)
- void [createPoiSearchHandle](#) (out Handle *poiSearchHandle*)

- void `deletePoiSearchHandle` (in Handle `poiSearchHandle`)
- void `setCenter` (in Handle `poiSearchHandle`, in Coordinate3D `location`)
- void `setRouteHandle` (in Handle `poiSearchHandle`, in Handle `sessionHandle`, in Handle `routeHandle`, in UInt32 `startSearchOffset`, in UInt32 `endSearchOffset`)
- void `setCategories` (in Handle `poiSearchHandle`, in CategoryAndRadius `poiCategories`)
- void `setAttributes` (in Handle `poiSearchHandle`, in AttributeDetails `poiAttributes`)
- void `startPoiSearch` (in Handle `poiSearchHandle`, in String `inputString`, in SortOption `sortOption`)
- void `cancelPoiSearch` (in Handle `poiSearchHandle`)
- void `startPoiProximityAlert` (in Handle `poiSearchHandle`, in String `inputString`, in SortOption `sortOption`)
- void `cancelPoiProximityAlert` (in Handle `poiSearchHandle`)
- void `requestResultList` (in Handle `poiSearchHandle`, in UInt16 `offset`, in UInt16 `maxWindowSize`, in AttributeID `attributeList`, out SearchStatusState `statusValue`, out UInt16 `resultListSize`, out SearchResult `resultListWindow`)
- void `getPoiDetails` (in POI_ID `id`, out SearchResultDetails `results`)

2.27.1 Detailed Description

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

2.27.2 Member Function Documentation

2.27.2.1 void org::genivi::navigation::poiservice::POISearch::cancelPoiProximityAlert (in Handle `poiSearchHandle`)

#comment : This method cancels the search for the current session.

2.27.2.2 void org::genivi::navigation::poiservice::POISearch::cancelPoiSearch (in Handle `poiSearchHandle`)

#comment : This method cancels the search for the current session.

2.27.2.3 void org::genivi::navigation::poiservice::POISearch::createPoiSearchHandle (out Handle `poiSearchHandle`)

#comment : This method creates a new search input and retrieves a handle .

2.27.2.4 void org::genivi::navigation::poiservice::POISearch::deletePoiSearchHandle (in Handle `poiSearchHandle`)

#comment : This method deletes a search input and its associated resources.

2.27.2.5 void org::genivi::navigation::poiservice::POISearch::getAvailableCategories (out CategoryAndName `categories`)

#comment : This method retrieves the list of POI categories available (pre-defined and custom).

2.27.2.6 void org::genivi::navigation::poiservice::POISearch::getCategoriesDetails (in CategoryID `categories`, out CategoryResults `results`)

#comment : This method retrieves the details associated to one or more POI categories. It contains the name, the parent categories, the top level attribute, the list of attributes, the icons,

2.27.2.7 void org::genivi::navigation::poiservice::POISearch::getCategoriesWithStandardCategoryId (in StandardCategory `standardCategoryId`, out CategoryID `categories`)

#comment : Get the categories that are marked with the given standard category.

2.27.2.8 void org::genivi::navigation::poiservice::POISearch::getChildrenCategories (in CategoryID *category*, out CategoryAndLevel *categories*)

#comment : Get the children categories id and type (top level) from the a parent unique id.

2.27.2.9 void org::genivi::navigation::poiservice::POISearch::getParentCategories (in CategoryID *category*, out CategoryAndLevel *categories*)

#comment : Get the parent categories id and type (top level) from the a unique id.

2.27.2.10 void org::genivi::navigation::poiservice::POISearch::getPoiDetails (in POI_ID *id*, out SearchResultDetails *results*)

#comment : This method retrieves the details associated to one or more POI. It contains the name, the parent categories, the list of attributes, the icons,

2.27.2.11 void org::genivi::navigation::poiservice::POISearch::getRootCategory (out CategoryID *category*)

#comment : Get the root category id. That would be ALL_CATEGORIES.

2.27.2.12 void org::genivi::navigation::poiservice::POISearch::getVersion (out Version *version*)

#comment : This method returns the API version implemented by the content access module.

2.27.2.13 void org::genivi::navigation::poiservice::POISearch::requestResultList (in Handle *poiSearchHandle*, in UInt16 *offset*, in UInt16 *maxWindowSize*, in AttributeID *attributeList*, out SearchStatusState *statusValue*, out UInt16 *resultListSize*, out SearchResult *resultListWindow*)

#comment : This method gets the poi result list (e.g. after a Search/Scroll call) .

2.27.2.14 void org::genivi::navigation::poiservice::POISearch::setAttributes (in Handle *poiSearchHandle*, in AttributeDetails *poiAttributes*)

#comment : This method set POI attributes (optional) for the current search input and the corresponding result-lists for the current session An attribute is attached to a category.

2.27.2.15 void org::genivi::navigation::poiservice::POISearch::setCategories (in Handle *poiSearchHandle*, in CategoryAndRadius *poiCategories*)

#comment : This method sets the POI categories for the current search input and the corresponding result-lists for the current session .

2.27.2.16 void org::genivi::navigation::poiservice::POISearch::setCenter (in Handle *poiSearchHandle*, in Coordinate3D *location*)

#comment : This method sets the location to start the search around. If a route handle was defined before, it will be replaced by this location.

2.27.2.17 void org::genivi::navigation::poiservice::POISearch::setRouteHandle (in Handle *poiSearchHandle*, in Handle *sessionHandle*, in Handle *routeHandle*, in UInt32 *startSearchOffset*, in UInt32 *endSearchOffset*)

#comment : This method allows to start a POI search along a guided route. The route handle must be valid or the POI search will failed. If a search location was defined before, it will be replaced by the route.

2.27.2.18 void org::genivi::navigation::poiservice::POISearch::startPoiProximityAlert (in Handle *poiSearchHandle*, in String *inputString*, in SortOption *sortOption*)

#comment : This method starts to check for POI around vehicle according to the criteria defined with the unique handle. By default, it will search for POI around vehicle position with default radius defined for each categories. If a route handle was defined, it will search along the route with default category's radius.

2.27.2.19 void org::genivi::navigation::poiservice::POISearch::startPoiSearch (in Handle *poiSearchHandle*, in String *inputString*, in SortOption *sortOption*)

#comment : This method sends the search input for the search handle. The search will start with the either the location or the route handle. If no position or route handle were configured, the search will use the vehicle position as center location.

2.27.2.20 void org::genivi::navigation::poiservice::POISearch::validateCategories (in CategoryID *categories*, out CategoryAndStatus *results*)

#comment : This method allows the application to validate that POI categories are supported by the POI component and the Content access modules.

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

- [POISearch.fidl](#)

2.28 org::genivi::navigation::poiservice::POISearch_client Interface Reference

Public Member Functions

- void [categoriesUpdated](#) (in CategoryAndReason *poiCategories*)
- void [poiStatus](#) (in Handle *poiSearchHandle*, in SearchStatusState *statusValue*)
- void [resultListChanged](#) (in Handle *poiSearchHandle*, in UInt16 *resultListSize*)

2.28.1 Member Function Documentation

2.28.1.1 void org::genivi::navigation::poiservice::POISearch_client::categoriesUpdated (in CategoryAndReason *poiCategories*)

broadcast #comment : This signal indicates that one or more POI categories were added, updated or removed.

2.28.1.2 void org::genivi::navigation::poiservice::POISearch_client::poiStatus (in Handle *poiSearchHandle*, in SearchStatusState *statusValue*)

broadcast #comment : This signal updates the search or proximity alert status of the specified handle.

2.28.1.3 void org::genivi::navigation::poiservice::POISearch_client::resultListChanged (in Handle *poiSearchHandle*, in UInt16 *resultListSize*)

broadcast #comment : This signal updates in the poi results list.

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

- [POISearch.fidl](#)

2.29 org::genivi::navigation::poiservice::POIServiceTypes Interface Reference

Classes

- struct [AttributeDetails](#)
- union [AttributeValue](#)
- struct [CAMCategory](#)
- struct [CAMCategoryUpdate](#)
- struct [Category](#)
- struct [CategoryAndLevel](#)
- struct [CategoryAndName](#)
- struct [CategoryAndRadius](#)
- struct [CategoryAndReason](#)
- struct [CategoryAndStatus](#)
- struct [CategoryAttribute](#)
- struct [CategoryDetails](#)
- struct [CategorySortOption](#)
- struct [Details](#)
- union [Icon](#)
- union [Media](#)
- struct [Operator](#)
- struct [PoiAddedDetails](#)
- struct [PoiAttribute](#)
- struct [PoiCAMDetails](#)
- struct [PoiDetails](#)
- struct [SearchResult](#)
- struct [SearchResultDetails](#)

Public Types

- enum [CategoryIDSet](#) : BasicEnum {

AIRPORT = 1, SPORTING = 2, FERRY_TERMINAL = 3, ENTERTAINMENT = 4,

HOTEL_MOTEL = 5, RESTAURANT = 6, PARKING = 7, FUEL_STATION = 8,

SERVICE_AREA = 9, CAR_REPAIR_SHOP = 10, CAR_DEALER = 11, CAR_RENTAL_AGENCY = 12,

MEDICAL = 13, SHOPPING = 14, BUSINESS_AREA = 15, LANDMARK = 16,

FLASH_RADAR = 17, POI_TRUCK = 18, SANCTUARY = 19, TOLLOBOOTH = 20,

KIOSK = 21, WATER_CLOSET = 22, BANK_AND_FINANCIAL = 23, TRAVEL = 24,

TOURIST = 25, PUBLIC_BUILDING = 26, RAILWAY_STATION = 27, DESTINATION_FLAG = 204,

FAVORITE = 205, FAVORITE_HOME = 206, FAVORITE_ADDRESSBOOK = 207, USER_IMPORT = 208,

USER_CONTACT = 209, MOTORWAY_EXIT = 210, ALL_CATEGORIES = 65535 }
- enum [StandardCategory](#) {

NOT_STANDARD_CATEGORY, VEHICLE_REPAIR = 1, PETROL_STATION = 2, EVS_CHARGING_STATION = 3,

CONTROLLED_ACCESS_INTERSECTION = 4, CONTROLLED_ACCESS_ENTRY_EXIT = 5, CONTROLLED_ACCESS_SMART_IC = 6, RENT_A_CAR = 7,

CAR_WASH = 8, CAR_DEALERSHIP = 9, MOTOR_CYCLE DEALERSHIP = 10, TRUCK_DEALERSHIP = 11,

PARKING_GARAGE = 12, OPEN_PARKING = 13, REST_AREA = 14, ROAD_ASSISTANCE = 15,

CAMPING = 16, CARAVAN_SITE = 17, COACH_AND_LORRY_PARKING = 18, MOTORING_ORG_OFFICE = 19,

CAR SHIPPING TERMINAL = 20, HOTEL_MOTEL = 5, RESTAURANT = 6, FAST_FOOD = 23,

COFFEE_SHOP = 24, BAR_OR_PUB = 25, CINEMA = 26, MUSEUM = 27,

THEATRE = 28, LIBRARY = 29, HOSPITAL = 30, PHYSICIAN = 31,

DENTIST = 32, PHARMACY = 33, VETERINARIAN_SERVICE = 34, POLICE_STATION = 35,

POST_OFFICE = 36, CITY_HALL = 37, EMBASSY = 38, COURT_HOUSE = 39,

GOVERNMENT_OFFICE = 40, COMMUNITY_CENTER = 41, SHOPPING_CENTER = 42, STORE = 43,

BANK = 44, ATM = 45, CURRENCY_EXCHANGE = 46, TOURIST_OFFICE = 47,

TRAVEL_AGENCY = 48, TOURIST_ATTRACTION = 49, HISTORICAL_MONUMENT = 50, NATIONAL = 51 }

```

PARK = 51,
CITY_CENTER = 52, HAMLET = 53, ZOO = 54, AMUSEMENT_PARK = 55,
GOING_OUT = 56, STADIUM = 57, SPORTS_CENTER = 58, RECREATION = 59,
SKI_RESORT = 60, SWIMMING_POOL = 61, GOLF_COURSE = 62, FERRY_TERMINAL = 3,
MARINA = 64, HARBOUR = 65, BUSINESS_FACILITY = 66, EXHIBITION_CONference_CENTER = 67,
RAILWAY_STATION = 27, PUBLIC_TRANSIT_STOP = 69, PARK_AND_RIDE = 70, AIRPORT = 1,
AIRLINE_ACCESS = 72, TAXI_STAND = 73, EMERGENCY_CALL_STATION = 74, EMERGENCY_MEDICAL_SERVICE = 75,
FIRST_AID_POST = 76, FIRE_BRIGADE = 77, PLACE_OF_WORSHIP = 78, EDUCATION = 79,
CUSTOMS = 80, FRONTIER_CROSSING = 81, TOLL_LOCATION = 82, PUBLIC_RESTROOM = 83,
PUBLIC_PHONE = 84, KINDERGARTEN = 85, MOUNTAIN_PASS_SUMMIT = 86, SPEED_CAMERA = 87
}

• enum AttributeType { STRING = 500, INTEGER = 501, COORDINATES = 502, BOOLEAN = 503 }

• enum SearchStatusState : BasicEnum { NOT_STARTED = 510, SEARCHING = 511, FINISHED = 512 }

• enum OperatorType : BasicEnum { MORE_THAN = 520, LESS_THAN = 521, EQUAL = 522 }

• enum SortOption { SORT_DEFAULT = 560, SORT_BY_DISTANCE = 561, SORT_BY_TIME = 562, ATTRIBUTE_CUSTOM = 563 }

• enum RouteStatus { OFF_ROUTE = 600, ON_ROUTE = 601, INSIDE_CORRIDOR = 602 }

• enum UpdateReason {
    ADDED = 700, REMOVED = 701, ATTR_ADDED = 702, ATTR_MODIFIED = 703,
    ATTR_REMOVED = 704
}

• enum ConfigurationChangedReason { LOCALES }

• enum Settings {
    INVALID = 0, UNITS_OF_MEASUREMENT = 48, LOCALE = 37, TIME_FORMAT = 3,
    COORDINATES_FORMAT = 6
}

• typedef UInt32 POI_ID

• typedef UInt32 ResourceID

• typedef UInt32 AttributeID

• typedef UInt8 ContentAccessModuleID

```

2.29.1 Member Typedef Documentation

2.29.1.1 typedef UInt32 org::genivi::navigation::poiservice::POIServiceTypes::AttributeID

2.29.1.2 typedef UInt8 org::genivi::navigation::poiservice::POIServiceTypes::ContentAccessModuleID

2.29.1.3 typedef UInt32 org::genivi::navigation::poiservice::POIServiceTypes::POI_ID

2.29.1.4 typedef UInt32 org::genivi::navigation::poiservice::POIServiceTypes::ResourceID

2.29.2 Member Enumeration Documentation

2.29.2.1 enum org::genivi::navigation::poiservice::POIServiceTypes::AttributeType

Enumerator

STRING

INTEGER

COORDINATES

BOOLEAN

2.29.2.2 enum org::genivi::navigation::poiservice::POIServiceTypes::CategoryIDSet : BasicEnum

Enumerator

AIRPORT
SPORTING
FERRY_TERMINAL
ENTERTAINMENT
HOTEL_MOTEL
RESTAURANT
PARKING
FUEL_STATION
SERVICE_AREA
CAR_REPAIR_SHOP
CAR DEALER
CAR_RENTAL_AGENCY
MEDICAL
SHOPPING
BUSINESS_AREA
LANDMARK
FLASH_RADAR
POI_TRUCK
SANCTUARY
TOLLBOOTH
KIOSK
WATER_CLOSET
BANK_AND_FINANCIAL
TRAVEL
TOURIST
PUBLIC_BUILDING
RAILWAY_STATION
DESTINATION_FLAG
FAVORITE
FAVORITE_HOME
FAVORITE_ADDRESSBOOK
USER_IMPORT
USER_CONTACT
MOTORWAY_EXIT
ALL_CATEGORIES

2.29.2.3 enum org::genivi::navigation::poiservice::POIServiceTypes::ConfigurationChangedReason

Enumerator

LOCALES

2.29.2.4 enum org::genivi::navigation::poiservice::POIServiceTypes::OperatorType : BasicEnum

Enumerator

MORE_THAN

LESS_THAN

EQUAL

2.29.2.5 enum org::genivi::navigation::poiservice::POIServiceTypes::RouteStatus

Enumerator

OFF_ROUTE

ON_ROUTE

INSIDE_CORRIDOR

2.29.2.6 enum org::genivi::navigation::poiservice::POIServiceTypes::SearchStatusState : BasicEnum

Enumerator

NOT_STARTED

SEARCHING

FINISHED

2.29.2.7 enum org::genivi::navigation::poiservice::POIServiceTypes::Settings

Enumerator

INVALID

UNITS_OF_MEASUREMENT

LOCALE

TIME_FORMAT

COORDINATES_FORMAT

2.29.2.8 enum org::genivi::navigation::poiservice::POIServiceTypes::SortOption

Enumerator

SORT_DEFAULT

SORT_BY_DISTANCE

SORT_BY_TIME

ATTRIBUTE_CUSTOM

2.29.2.9 enum org::genivi::navigation::poiservice::POIServiceTypes::StandardCategory

Enumerator

NOT_STANDARD_CATEGORY
VEHICLE_REPAIR
PETROL_STATION
EVS_CHARGING_STATION
CONTROLLED_ACCESS_INTERSECTION
CONTROLLED_ACCESS_ENTRY_EXIT
CONTROLLED_ACCESS_SMART_IC
RENT_A_CAR
CAR_WASH
CAR DEALERSHIP
MOTOR_CYCLE_DEALERSHIP
TRUCK_DEALERSHIP
PARKING_GARAGE
OPEN_PARKING
REST_AREA
ROAD_ASSISTANCE
CAMPING
CARAVAN_SITE
COACH_AND_LORRY_PARKING
MOTORING_ORG_OFFICE
CAR_SHIPPING_TERMINAL
HOTEL_MOTEL
RESTAURANT
FAST_FOOD
COFFEE_SHOP
BAR_OR_PUB
CINEMA
MUSEUM
THEATRE
LIBRARY
HOSPITAL
PHYSICIAN
DENTIST
PHARMACY
VETERINARIAN_SERVICE
POLICE_STATION
POST_OFFICE
CITY_HALL
EMBASSY
COURT_HOUSE
GOVERNMENT_OFFICE
COMMUNITY_CENTER

SHOPPING_CENTER
STORE
BANK
ATM
CURRENCY_EXCHANGE
TOURIST_OFFICE
TRAVEL_AGENCY
TOURIST_ATTRACTION
HISTORICAL_MONUMENT
NATIONAL_PARK
CITY_CENTER
HAMLET
ZOO
AMUSEMENT_PARK
GOING_OUT
STADIUM
SPORTS_CENTER
RECREATION
SKI_RESORT
SWIMMING_POOL
GOLF.Course
FERRY_TERMINAL
MARINA
HARBOUR
BUSINESS_FACILITY
EXHIBITION_CONFERENCE_CENTER
RAILWAY_STATION
PUBLIC_TRANSIT_STOP
PARK_AND_RIDE
AIRPORT
AIRLINE_ACCESS
TAXI_STAND
EMERGENCY_CALL_STATION
EMERGENCY_MEDICAL_SERVICE
FIRST_AID_POST
FIRE_BRIGADE
PLACE_OF_WORSHIP
EDUCATION
CUSTOMS
FRONTIER_CROSSING
TOLL_LOCATION
PUBLIC_RESTROOM
PUBLIC_PHONE
KINDERGARTEN
MOUNTAIN_PASS_SUMMIT
SPEED_CAMERA

2.29.2.10 enum org::genivi::navigation::poiservice::POIServiceTypes::UpdateReason

Enumerator

ADDED

REMOVED

ATTR_ADDED

ATTR_MODIFIED

ATTR_REMOVED

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

- [POIServiceTypes.fidl](#)

2.30 org::genivi::navigation::poiservice::POIServiceTypes::SearchResult Struct Reference

Public Attributes

- [POI_ID id](#)
- [UInt32 distance](#)
- [RouteStatus routeStatus](#)
- [PoiAttribute\[\] attributeList](#)

2.30.1 Member Data Documentation

2.30.1.1 PoiAttribute [] org::genivi::navigation::poiservice::POIServiceTypes::SearchResult::attributeList

2.30.1.2 UInt32 org::genivi::navigation::poiservice::POIServiceTypes::SearchResult::distance

2.30.1.3 POI_ID org::genivi::navigation::poiservice::POIServiceTypes::SearchResult::id

2.30.1.4 RouteStatus org::genivi::navigation::poiservice::POIServiceTypes::SearchResult::routeStatus

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

- [POIServiceTypes.fidl](#)

2.31 org::genivi::navigation::poiservice::POIServiceTypes:: SearchResultDetails Struct Reference

Public Attributes

- [PoiDetails details](#)
- [CategoryID\[\] categories](#)
- [PoiAttribute\[\] attributeList](#)

2.31.1 Member Data Documentation

2.31.1.1 **PoiAttribute** [] org::genivi::navigation::poiservice::POIServiceTypes::SearchResultDetails::attributeList

2.31.1.2 **CategoryID** [] org::genivi::navigation::poiservice::POIServiceTypes::SearchResultDetails::categories

2.31.1.3 **PoiDetails** org::genivi::navigation::poiservice::POIServiceTypes::SearchResultDetails::details

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

- [POIServiceTypes.fidl](#)

3 File Documentation

3.1 POIConfiguration.fidl File Reference

Classes

- interface [org::genivi::navigation::poiservice::POIConfiguration](#)
- interface [org::genivi::navigation::poiservice::POIConfiguration_client](#)

Modules

- module [org::genivi::navigation::poiservice](#)

3.2 POIContentAccess.fidl File Reference

Classes

- interface [org::genivi::navigation::poiservice::POIContentAccess](#)

Modules

- module [org::genivi::navigation::poiservice](#)

3.3 POIContentAccessModule.fidl File Reference

Classes

- interface [org::genivi::navigation::poiservice::POIContentAccessModule](#)
- interface [org::genivi::navigation::poiservice::POIContentAccessModule_client](#)

Modules

- module [org::genivi::navigation::poiservice](#)

3.4 POISearch.fidl File Reference

Classes

- interface [org::genivi::navigation::poiservice::POISearch](#)
- interface [org::genivi::navigation::poiservice::POISearch_client](#)

Modules

- module [org::genivi::navigation::poiservice](#)

3.5 POIServiceTypes.fidl File Reference

Classes

- interface [org::genivi::navigation::poiservice::POIServiceTypes](#)
- union [org::genivi::navigation::poiservice::POIServiceTypes::Icon](#)
- union [org::genivi::navigation::poiservice::POIServiceTypes::Media](#)
- union [org::genivi::navigation::poiservice::POIServiceTypes::AttributeValue](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::Details](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::Operator](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAttribute](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategorySortOption](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CAMCategory](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CAMCategoryUpdate](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::PoiAttribute](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndRadius](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::PoiDetails](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::SearchResultDetails](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::SearchResult](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::PoiCAMDetails](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::AttributeDetails](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryDetails](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::Category](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndLevel](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndName](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndReason](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::CategoryAndStatus](#)
- struct [org::genivi::navigation::poiservice::POIServiceTypes::PoiAddedDetails](#)

Modules

- module [org::genivi::navigation::poiservice](#)

Index

ADDED
 org::genivi::navigation::poiservice::POIService←
 Types, 29

AIRLINE_ACCESS
 org::genivi::navigation::poiservice::POIService←
 Types, 28

AIRPORT
 org::genivi::navigation::poiservice::POIService←
 Types, 25, 28

ALL_CATEGORIES
 org::genivi::navigation::poiservice::POIService←
 Types, 25

AMUSEMENT_PARK
 org::genivi::navigation::poiservice::POIService←
 Types, 28

ATTR_ADDED
 org::genivi::navigation::poiservice::POIService←
 Types, 29

ATTR_MODIFIED
 org::genivi::navigation::poiservice::POIService←
 Types, 29

ATTR_REMOVED
 org::genivi::navigation::poiservice::POIService←
 Types, 29

ATTRIBUTE_CUSTOM
 org::genivi::navigation::poiservice::POIService←
 Types, 26

ATM
 org::genivi::navigation::poiservice::POIService←
 Types, 28

addCategories
 org::genivi::navigation::poiservice::POIContent←
 Access, 15

addPOIs
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 16

AttributeID
 org::genivi::navigation::poiservice::POIService←
 Types, 24

attributeList
 org::genivi::navigation::poiservice::POIService←
 Types::CAMCategory, 3
 org::genivi::navigation::poiservice::POIService←
 Types::CAMCategoryUpdate, 4
 org::genivi::navigation::poiservice::POIService←
 Types::Category, 4
 org::genivi::navigation::poiservice::POIService←
 Types::PoiAddedDetails, 9
 org::genivi::navigation::poiservice::POIService←
 Types::PoiCAMDetails, 10
 org::genivi::navigation::poiservice::POIService←
 Types::SearchResult, 29
 org::genivi::navigation::poiservice::POIService←
 Types:: SearchResultDetails, 30

AttributeType

org::genivi::navigation::poiservice::POIService←
 Types, 24

BANK_AND_FINANCIAL
 org::genivi::navigation::poiservice::POIService←
 Types, 25

BANK
 org::genivi::navigation::poiservice::POIService←
 Types, 28

BAR_OR_PUB
 org::genivi::navigation::poiservice::POIService←
 Types, 27

BOOLEAN
 org::genivi::navigation::poiservice::POIService←
 Types, 24

BUSINESS_AREA
 org::genivi::navigation::poiservice::POIService←
 Types, 25

BUSINESS_FACILITY
 org::genivi::navigation::poiservice::POIService←
 Types, 28

boolValue
 org::genivi::navigation::poiservice::POIService←
 Types::AttributeValue, 3

CAMPING
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CAR DEALERSHIP
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CAR DEALER
 org::genivi::navigation::poiservice::POIService←
 Types, 25

CAR_RENTAL_AGENCY
 org::genivi::navigation::poiservice::POIService←
 Types, 25

CAR_REPAIR_SHOP
 org::genivi::navigation::poiservice::POIService←
 Types, 25

CAR SHIPPING TERMINAL
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CAR_WASH
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CARAVAN_SITE
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CINEMA
 org::genivi::navigation::poiservice::POIService←
 Types, 27

CITY_CENTER
 org::genivi::navigation::poiservice::POIService←
 Types, 28

CITY_HALL

org::genivi::navigation::poiservice::POIService ←
Types, 27

COACH_AND_LORRY_PARKING
org::genivi::navigation::poiservice::POIService ←
Types, 27

COFFEE_SHOP
org::genivi::navigation::poiservice::POIService ←
Types, 27

COMMUNITY_CENTER
org::genivi::navigation::poiservice::POIService ←
Types, 27

CONTROLLED_ACCESS_ENTRY_EXIT
org::genivi::navigation::poiservice::POIService ←
Types, 27

CONTROLLED_ACCESS_INTERSECTION
org::genivi::navigation::poiservice::POIService ←
Types, 27

CONTROLLED_ACCESS_SMART_IC
org::genivi::navigation::poiservice::POIService ←
Types, 27

COORDINATES_FORMAT
org::genivi::navigation::poiservice::POIService ←
Types, 26

COORDINATES
org::genivi::navigation::poiservice::POIService ←
Types, 24

COURT_HOUSE
org::genivi::navigation::poiservice::POIService ←
Types, 27

CURRENCY_EXCHANGE
org::genivi::navigation::poiservice::POIService ←
Types, 28

CUSTOMS
org::genivi::navigation::poiservice::POIService ←
Types, 28

cancelPoiProximityAlert
org::genivi::navigation::poiservice::POISearch, 20

cancelPoiSearch
org::genivi::navigation::poiservice::POISearch, 20

categories
org::genivi::navigation::poiservice::POIService ←
Types::SearchResultDetails, 30

CategoriesRemoved
org::genivi::navigation::poiservice::POIContent ←
AccessModule_client, 18

categoriesUpdated
org::genivi::navigation::poiservice::POISearch ←
client, 22

category
org::genivi::navigation::poiservice::POIService ←
Types::PoiCAMDetails, 10

CategoryIDSet
org::genivi::navigation::poiservice::POIService ←
Types, 24

categoryId
org::genivi::navigation::poiservice::POIService ←
Types::AttributeDetails, 2

ConfigurationChanged

org::genivi::navigation::poiservice::POIContent ←
AccessModule_client, 18

configurationChanged
org::genivi::navigation::poiservice::POIConfiguration ←
_client, 14

ConfigurationChangedReason
org::genivi::navigation::poiservice::POIService ←
Types, 25

ContentAccessModuleID
org::genivi::navigation::poiservice::POIService ←
Types, 24

CoordinatesFormat
org::genivi::navigation::poiservice::POIConfiguration,
11

createCategory
org::genivi::navigation::poiservice::POIContent ←
AccessModule, 16

createPoiSearchHandle
org::genivi::navigation::poiservice::POISearch, 20

DEGREES
org::genivi::navigation::poiservice::POIConfiguration,
11

DENTIST
org::genivi::navigation::poiservice::POIService ←
Types, 27

DESTINATION_FLAG
org::genivi::navigation::poiservice::POIService ←
Types, 25

deletePoiSearchHandle
org::genivi::navigation::poiservice::POISearch, 20

description
org::genivi::navigation::poiservice::POIService ←
Types::CategoryDetails, 7

details

- org::genivi::navigation::poiservice::POIService ←
Types::CAMCategory, 3
- org::genivi::navigation::poiservice::POIService ←
Types::Category, 4
- org::genivi::navigation::poiservice::POIService ←
Types::SearchResultDetails, 30

distance

- org::genivi::navigation::poiservice::POIService ←
Types::PoiCAMDetails, 10
- org::genivi::navigation::poiservice::POIService ←
Types::SearchResult, 29

EDUCATION
org::genivi::navigation::poiservice::POIService ←
Types, 28

EMBASSY
org::genivi::navigation::poiservice::POIService ←
Types, 27

EMERGENCY_CALL_STATION
org::genivi::navigation::poiservice::POIService ←
Types, 28

EMERGENCY_MEDICAL_SERVICE
org::genivi::navigation::poiservice::POIService ←
Types, 28

ENTERTAINMENT
 org::genivi::navigation::poiservice::POIService←
 Types, 25

EQUAL
 org::genivi::navigation::poiservice::POIService←
 Types, 26

EVS_CHARGING_STATION
 org::genivi::navigation::poiservice::POIService←
 Types, 27

EXHIBITION_CONFERENCE_CENTER
 org::genivi::navigation::poiservice::POIService←
 Types, 28

FAST_FOOD
 org::genivi::navigation::poiservice::POIService←
 Types, 27

FAVORITE_ADDRESSBOOK
 org::genivi::navigation::poiservice::POIService←
 Types, 25

FAVORITE_HOME
 org::genivi::navigation::poiservice::POIService←
 Types, 25

FAVORITE
 org::genivi::navigation::poiservice::POIService←
 Types, 25

FERRY_TERMINAL
 org::genivi::navigation::poiservice::POIService←
 Types, 25, 28

FINISHED
 org::genivi::navigation::poiservice::POIService←
 Types, 26

FIRE_BRIGADE
 org::genivi::navigation::poiservice::POIService←
 Types, 28

FIRST_AID_POST
 org::genivi::navigation::poiservice::POIService←
 Types, 28

FLASH_RADAR
 org::genivi::navigation::poiservice::POIService←
 Types, 25

FOOT
 org::genivi::navigation::poiservice::POIConfiguration,
 12

FRONTIER_CROSSING
 org::genivi::navigation::poiservice::POIService←
 Types, 28

FUEL_STATION
 org::genivi::navigation::poiservice::POIService←
 Types, 25

GOING_OUT
 org::genivi::navigation::poiservice::POIService←
 Types, 28

GOLF.Course
 org::genivi::navigation::poiservice::POIService←
 Types, 28

GOVERNMENT_OFFICE
 org::genivi::navigation::poiservice::POIService←
 Types, 27

getAvailableCategories
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 16

getCategoriesDetails
 org::genivi::navigation::poiservice::POISearch, 20

getCategoriesWithStandardCategoryId
 org::genivi::navigation::poiservice::POISearch, 20

getChildrenCategories
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 16

getCoordinatesFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 12

getLocale
 org::genivi::navigation::poiservice::POIConfiguration,
 12

getLocale
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 16

getParentCategories
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 17

getPoiDetails
 org::genivi::navigation::poiservice::POISearch, 21

getRootCategory
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 17

getSupportedCoordinatesFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 12

getSupportedLocales
 org::genivi::navigation::poiservice::POIConfiguration,
 12

getSupportedTimeFormats
 org::genivi::navigation::poiservice::POIConfiguration,
 13

getSupportedUnitsOfMeasurement
 org::genivi::navigation::poiservice::POIConfiguration,
 13

getTimeFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 13

getUnitsOfMeasurement
 org::genivi::navigation::poiservice::POIConfiguration,
 13

getVersion
 org::genivi::navigation::poiservice::POIConfiguration,
 13

getVersion
 org::genivi::navigation::poiservice::POIContent←
 AccessModule, 17

HAMLET

org::genivi::navigation::poiservice::POIService ←
 Types, 28

HARBOUR
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

HISTORICAL_MONUMENT
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

HOSPITAL
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

HOTEL_MOTEL
 org::genivi::navigation::poiservice::POIService ←
 Types, 25, 27

INSIDE_CORRIDOR
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

INTEGER
 org::genivi::navigation::poiservice::POIService ←
 Types, 24

INVALID
 org::genivi::navigation::poiservice::POIConfiguration,
 11, 12
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

icons
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryDetails, 7
 org::genivi::navigation::poiservice::POIService ←
 Types::Details, 8

id
 org::genivi::navigation::poiservice::POIService ←
 Types::AttributeDetails, 2
 org::genivi::navigation::poiservice::POIService ←
 Types::CAMCategoryUpdate, 4
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAndRadius, 5
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAttribute, 6
 org::genivi::navigation::poiservice::POIService ←
 Types::CategorySortOption, 7
 org::genivi::navigation::poiservice::POIService ←
 Types::Icon, 8
 org::genivi::navigation::poiservice::POIService ←
 Types::Media, 9
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiAttribute, 10
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiDetails, 19
 org::genivi::navigation::poiservice::POIService ←
 Types::SearchResult, 29

intValue
 org::genivi::navigation::poiservice::POIService ←
 Types::AttributeValue, 3

KINDERGARTEN
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

KIOSK
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

KM
 org::genivi::navigation::poiservice::POIConfiguration,
 12

LANDMARK
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

LENGTH
 org::genivi::navigation::poiservice::POIConfiguration,
 12

LESS_THAN
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

LIBRARY
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

LOCALES
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

LOCALE
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

location
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiAddedDetails, 9
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiCAMDetails, 10
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiDetails, 19

MARINA
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

MEDICAL
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

METER
 org::genivi::navigation::poiservice::POIConfiguration,
 12

MILE
 org::genivi::navigation::poiservice::POIConfiguration,
 12

MINUTES
 org::genivi::navigation::poiservice::POIConfiguration,
 11

MORE_THAN
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

MOTOR_CYCLE_DEALERSHIP
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

MOTORING_ORG_OFFICE
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

MOTORWAY_EXIT

org::genivi::navigation::poiservice::POIService ←
 Types, 25
MOUNTAIN_PASS_SUMMIT
 org::genivi::navigation::poiservice::POIService ←
 Types, 28
MUSEUM
 org::genivi::navigation::poiservice::POIService ←
 Types, 27
mandatory
 org::genivi::navigation::poiservice::POIService ←
 Types::AttributeDetails, 2
media
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryDetails, 7
 org::genivi::navigation::poiservice::POIService ←
 Types::Details, 8
NATIONAL_PARK
 org::genivi::navigation::poiservice::POIService ←
 Types, 28
NOT_STANDARD_CATEGORY
 org::genivi::navigation::poiservice::POIService ←
 Types, 27
NOT_STARTED
 org::genivi::navigation::poiservice::POIService ←
 Types, 26
name
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAndName, 5
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAttribute, 6
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryDetails, 7
 org::genivi::navigation::poiservice::POIService ←
 Types::CategorySortOption, 7
 org::genivi::navigation::poiservice::POIService ←
 Types::Details, 8
 org::genivi::navigation::poiservice::POIService ←
 Types::Operator, 9
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiAddedDetails, 9
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiCAMDetails, 10
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiDetails, 19
OFF_ROUTE
 org::genivi::navigation::poiservice::POIService ←
 Types, 26
ON_ROUTE
 org::genivi::navigation::poiservice::POIService ←
 Types, 26
OPEN_PARKING
 org::genivi::navigation::poiservice::POIService ←
 Types, 27
oper
 org::genivi::navigation::poiservice::POIService ←
 Types::AttributeDetails, 2
OperatorType
 org::genivi::navigation::poiservice::POIService ←
 Types, 25
operators
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAttribute, 6
org, 1
org::genivi, 2
org::genivi::navigation, 2
org::genivi::navigation::poiservice, 2
org::genivi::navigation::poiservice::POIConfiguration, 11
 CoordinatesFormat, 11
 DEGREES, 11
 FOOT, 12
 getCoordinatesFormat, 12
 getLocale, 12
 getSupportedCoordinatesFormat, 12
 getSupportedLocales, 12
 getSupportedTimeFormats, 13
 getSupportedUnitsOfMeasurement, 13
 getTimeFormat, 13
 getUnitsOfMeasurement, 13
 getVersion, 13
 INVALID, 11, 12
 KM, 12
 LENGTH, 12
 METER, 12
 MILE, 12
 MINUTES, 11
 SECONDS, 11
 setCoordinatesFormat, 13
 setLocale, 13
 setTimeFormat, 13
 setUnitsOfMeasurement, 13
 TWELVEH, 12
 TWENTYFOURH, 12
 TimeFormat, 11
 Units, 12
 UnitsOfMeasurementAttribute, 12, 14
 UnitsOfMeasurementListValue, 11
 UnitsOfMeasurementValue, 12
 YARD, 12
org::genivi::navigation::poiservice::POIConfiguration ←
 client, 14
 configurationChanged, 14
org::genivi::navigation::poiservice::POIContentAccess,
 14
 addCategories, 15
 registerContentAccessModule, 15
 registerPoiCategories, 15
 removeCategories, 15
 unRegisterContentAccessModule, 15
 updateCategories, 15
org::genivi::navigation::poiservice::POIContent ←
 AccessModule, 16
 addPOIs, 16
 createCategory, 16
 getAvailableCategories, 16
 getChildrenCategories, 16

getLocale, 16
 getParentCategories, 17
 getRootCategory, 17
 getSupportedLocales, 17
 getVersion, 17
 poiDetailsRequested, 17
 poiSearchCanceled, 17
 poiSearchStarted, 17
 removeCategories, 17
 removePOIs, 17
 resultListRequested, 17
 setLocale, 18
 org::genivi::navigation::poiservice::POIContent→
 AccessModule_client, 18
 CategoriesRemoved, 18
 ConfigurationChanged, 18
 POIAdded, 18
 POIRemoved, 18
 SearchStatusChanged, 19
 org::genivi::navigation::poiservice::POISearch, 19
 cancelPoiProximityAlert, 20
 cancelPoiSearch, 20
 createPoiSearchHandle, 20
 deletePoiSearchHandle, 20
 getAvailableCategories, 20
 getCategoriesDetails, 20
 getCategoriesWithStandardCategoryId, 20
 getChildrenCategories, 20
 getParentCategories, 21
 getPoiDetails, 21
 getRootCategory, 21
 getVersion, 21
 requestResultList, 21
 setAttributes, 21
 setCategories, 21
 setCenter, 21
 setRouteHandle, 21
 startPoiProximityAlert, 21
 startPoiSearch, 22
 validateCategories, 22
 org::genivi::navigation::poiservice::POISearch_client,
 22
 categoriesUpdated, 22
 poiStatus, 22
 resultListChanged, 22
 org::genivi::navigation::poiservice::POIServiceTypes, 23
 ADDED, 29
 AIRLINE_ACCESS, 28
 AIRPORT, 25, 28
 ALL_CATEGORIES, 25
 AMUSEMENT_PARK, 28
 ATTR_ADDED, 29
 ATTR_MODIFIED, 29
 ATTR_REMOVED, 29
 ATTRIBUTE_CUSTOM, 26
 ATM, 28
 AttributeID, 24
 AttributeType, 24
 BANK_AND_FINANCIAL, 25
 BANK, 28
 BAR_OR_PUB, 27
 BOOLEAN, 24
 BUSINESS_AREA, 25
 BUSINESS_FACILITY, 28
 CAMPING, 27
 CAR DEALERSHIP, 27
 CAR DEALER, 25
 CAR RENTAL_AGENCY, 25
 CAR REPAIR_SHOP, 25
 CAR SHIPPING TERMINAL, 27
 CAR WASH, 27
 CARAVAN_SITE, 27
 CINEMA, 27
 CITY_CENTER, 28
 CITY_HALL, 27
 COACH_AND_LORRY_PARKING, 27
 COFFEE_SHOP, 27
 COMMUNITY_CENTER, 27
 CONTROLLED_ACCESS_ENTRY_EXIT, 27
 CONTROLLED_ACCESS_INTERSECTION, 27
 CONTROLLED_ACCESS_SMART_IC, 27
 COORDINATES_FORMAT, 26
 COORDINATES, 24
 COURT_HOUSE, 27
 CURRENCY_EXCHANGE, 28
 CUSTOMS, 28
 CategoryIDSet, 24
 ConfigurationChangedReason, 25
 ContentAccessModuleID, 24
 DENTIST, 27
 DESTINATION_FLAG, 25
 EDUCATION, 28
 EMBASSY, 27
 EMERGENCY_CALL_STATION, 28
 EMERGENCY_MEDICAL_SERVICE, 28
 ENTERTAINMENT, 25
 EQUAL, 26
 EVS_CHARGING_STATION, 27
 EXHIBITION_CONFERENCE_CENTER, 28
 FAST_FOOD, 27
 FAVORITE_ADDRESSBOOK, 25
 FAVORITE_HOME, 25
 FAVORITE, 25
 FERRY_TERMINAL, 25, 28
 FINISHED, 26
 FIRE_BRIGADE, 28
 FIRST_AID_POST, 28
 FLASH_RADAR, 25
 FRONTIER_CROSSING, 28
 FUEL_STATION, 25
 GOING_OUT, 28
 GOLF_COURSE, 28
 GOVERNMENT_OFFICE, 27
 HAMLET, 28
 HARBOUR, 28
 HISTORICAL_MONUMENT, 28

HOSPITAL, 27
HOTEL_MOTEL, 25, 27
INSIDE_CORRIDOR, 26
INTEGER, 24
INVALID, 26
KINDERGARTEN, 28
KIOSK, 25
LANDMARK, 25
LESS_THAN, 26
LIBRARY, 27
LOCALES, 25
LOCALE, 26
MARINA, 28
MEDICAL, 25
MORE_THAN, 26
MOTOR_CYCLE DEALERSHIP, 27
MOTORING_ORG_OFFICE, 27
MOTORWAY_EXIT, 25
MOUNTAIN_PASS_SUMMIT, 28
MUSEUM, 27
NATIONAL_PARK, 28
NOT_STANDARD_CATEGORY, 27
NOT_STARTED, 26
OFF_ROUTE, 26
ON_ROUTE, 26
OPEN_PARKING, 27
OperatorType, 25
PARK_AND_RIDE, 28
PARKING_GARAGE, 27
PARKING, 25
PETROL_STATION, 27
PHARMACY, 27
PHYSICIAN, 27
PLACE_OF_WORSHIP, 28
POI_ID, 24
POI_TRUCK, 25
POLICE_STATION, 27
POST_OFFICE, 27
PUBLIC_BUILDING, 25
PUBLIC_PHONE, 28
PUBLIC_RESTROOM, 28
PUBLIC_TRANSIT_STOP, 28
RAILWAY_STATION, 25, 28
RECREATION, 28
REMOVED, 29
RENT_A_CAR, 27
REST_AREA, 27
RESTAURANT, 25, 27
ROAD_ASSISTANCE, 27
ResourceId, 24
RouteStatus, 26
SANCTUARY, 25
SEARCHING, 26
SERVICE_AREA, 25
SHOPPING_CENTER, 27
SHOPPING, 25
SKI_RESORT, 28
SORT_BY_DISTANCE, 26
SORT_BY_TIME, 26
SORT_DEFAULT, 26
SPEED_CAMERA, 28
SPORTING, 25
SPORTS_CENTER, 28
STADIUM, 28
STORE, 28
STRING, 24
SWIMMING_POOL, 28
SearchStatusState, 26
Settings, 26
SortOption, 26
StandardCategory, 26
TAXI_STAND, 28
THEATRE, 27
TIME_FORMAT, 26
TOLL_LOCATION, 28
TOLLBOOTH, 25
TOURIST_ATTRACTION, 28
TOURIST_OFFICE, 28
TOURIST, 25
TRAVEL_AGENCY, 28
TRAVEL, 25
TRUCK_DEALERSHIP, 27
UNITS_OF_MEASUREMENT, 26
USER_CONTACT, 25
USER_IMPORT, 25
UpdateReason, 28
VEHICLE_REPAIR, 27
VETERINARIAN_SERVICE, 27
WATER_CLOSET, 25
ZOO, 28

org::genivi::navigation::poiservice::POIServiceTypes::←
AttributeDetails, 2
categoryId, 2
id, 2
mandatory, 2
oper, 2
type, 2
value, 2

org::genivi::navigation::poiservice::POIServiceTypes::←
AttributeValue, 3
boolValue, 3
intValue, 3
stringValue, 3

org::genivi::navigation::poiservice::POIServiceTypes::←
CAMCategory, 3
attributeList, 3
details, 3
sortOptions, 3

org::genivi::navigation::poiservice::POIServiceTypes::←
CAMCategoryUpdate, 3
attributeList, 4
id, 4
sortOptions, 4

org::genivi::navigation::poiservice::POIServiceTypes::←
Category, 4
attributeList, 4

details, 4
 sortOptions, 4
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAndLevel, 4
 topLevel, 4
 uniqueId, 4
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAndName, 5
 name, 5
 topLevel, 5
 uniqueId, 5
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAndRadius, 5
 id, 5
 radius, 5
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAndReason, 5
 reason, 6
 unique_id, 6
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAndStatus, 6
 status, 6
 uniqueId, 6
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryAttribute, 6
 id, 6
 name, 6
 operators, 6
 type, 6
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategoryDetails, 7
 description, 7
 icons, 7
 media, 7
 name, 7
 parentSId, 7
 standardCategoryId, 7
 topLevel, 7
 uniqueId, 7
 org::genivi::navigation::poiservice::POIServiceTypes::←
 CategorySortOption, 7
 id, 7
 name, 7
 org::genivi::navigation::poiservice::POIServiceTypes::←
 Details, 8
 icons, 8
 media, 8
 name, 8
 parentSId, 8
 shortDesc, 8
 org::genivi::navigation::poiservice::POIServiceTypes::←
 Icon, 8
 id, 8
 url, 8
 org::genivi::navigation::poiservice::POIServiceTypes::←
 Media, 8
 id, 9
 url, 9
 org::genivi::navigation::poiservice::POIServiceTypes::←
 Operator, 9
 name, 9
 type, 9
 value, 9
 org::genivi::navigation::poiservice::POIServiceTypes::←
 PoiAddedDetails, 9
 attributeList, 9
 location, 9
 name, 9
 org::genivi::navigation::poiservice::POIServiceTypes::←
 PoiAttribute, 10
 id, 10
 type, 10
 value, 10
 org::genivi::navigation::poiservice::POIServiceTypes::←
 PoiCADCDetails, 10
 attributeList, 10
 category, 10
 distance, 10
 location, 10
 name, 10
 sourceId, 10
 org::genivi::navigation::poiservice::POIServiceTypes::←
 PoiDetails, 19
 id, 19
 location, 19
 name, 19
 org::genivi::navigation::poiservice::POIServiceTypes::←
 SearchResult, 29
 attributeList, 29
 distance, 29
 id, 29
 routeStatus, 29
 org::genivi::navigation::poiservice::POIServiceTypes::←
 SearchResultDetails, 29
 attributeList, 30
 categories, 30
 details, 30
 PARK_AND_RIDE
 org::genivi::navigation::poiservice::POIService←
 Types, 28
 PARKING_GARAGE
 org::genivi::navigation::poiservice::POIService←
 Types, 27
 PARKING
 org::genivi::navigation::poiservice::POIService←
 Types, 25
 PETROL_STATION
 org::genivi::navigation::poiservice::POIService←
 Types, 27
 PHARMACY
 org::genivi::navigation::poiservice::POIService←
 Types, 27
 PHYSICIAN
 org::genivi::navigation::poiservice::POIService←
 Types, 27
 PLACE_OF_WORSHIP

org::genivi::navigation::poiservice::POIService←
Types, 28

POI_ID
org::genivi::navigation::poiservice::POIService←
Types, 24

POI_TRUCK
org::genivi::navigation::poiservice::POIService←
Types, 25

POIAdded
org::genivi::navigation::poiservice::POIContent←
AccessModule_client, 18

POIConfiguration.fidl, 30

POIContentAccess.fidl, 30

POIContentAccessModule.fidl, 30

POIRemoved
org::genivi::navigation::poiservice::POIContent←
AccessModule_client, 18

POISearch.fidl, 31

POIServiceTypes.fidl, 31

POLICE_STATION
org::genivi::navigation::poiservice::POIService←
Types, 27

POST_OFFICE
org::genivi::navigation::poiservice::POIService←
Types, 27

PUBLIC_BUILDING
org::genivi::navigation::poiservice::POIService←
Types, 25

PUBLIC_PHONE
org::genivi::navigation::poiservice::POIService←
Types, 28

PUBLIC_RESTROOM
org::genivi::navigation::poiservice::POIService←
Types, 28

PUBLIC_TRANSIT_STOP
org::genivi::navigation::poiservice::POIService←
Types, 28

parentsId
org::genivi::navigation::poiservice::POIService←
Types::CategoryDetails, 7

org::genivi::navigation::poiservice::POIService←
Types::Details, 8

poiDetailsRequested
org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

poiSearchCanceled
org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

poiSearchStarted
org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

poiStatus
org::genivi::navigation::poiservice::POISearch←
client, 22

RAILWAY_STATION
org::genivi::navigation::poiservice::POIService←
Types, 25, 28

RECREATION

org::genivi::navigation::poiservice::POIService←
Types, 28

REMOVED

org::genivi::navigation::poiservice::POIService←
Types, 29

RENT_A_CAR
org::genivi::navigation::poiservice::POIService←
Types, 27

REST_AREA
org::genivi::navigation::poiservice::POIService←
Types, 27

RESTAURANT
org::genivi::navigation::poiservice::POIService←
Types, 25, 27

ROAD_ASSISTANCE
org::genivi::navigation::poiservice::POIService←
Types, 27

radius
org::genivi::navigation::poiservice::POIService←
Types::CategoryAndRadius, 5

reason
org::genivi::navigation::poiservice::POIService←
Types::CategoryAndReason, 6

registerContentAccessModule
org::genivi::navigation::poiservice::POIContent←
Access, 15

registerPoiCategories
org::genivi::navigation::poiservice::POIContent←
Access, 15

removeCategories
org::genivi::navigation::poiservice::POIContent←
Access, 15

org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

removePOIs
org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

requestResultList
org::genivi::navigation::poiservice::POISearch, 21

ResourceID
org::genivi::navigation::poiservice::POIService←
Types, 24

resultListChanged
org::genivi::navigation::poiservice::POISearch←
client, 22

resultListRequested
org::genivi::navigation::poiservice::POIContent←
AccessModule, 17

RouteStatus
org::genivi::navigation::poiservice::POIService←
Types, 26

routeStatus
org::genivi::navigation::poiservice::POIService←
Types::SearchResult, 29

SANCTUARY
org::genivi::navigation::poiservice::POIService←
Types, 25

SEARCHING

org::genivi::navigation::poiservice::POIService ←
 Types, 26

SECONDS
 org::genivi::navigation::poiservice::POIConfiguration,
 11

SERVICE_AREA
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

SHOPPING_CENTER
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

SHOPPING
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

SKI_RESORT
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

SORT_BY_DISTANCE
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

SORT_BY_TIME
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

SORT_DEFAULT
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

SPEED_CAMERA
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

SPORTING
 org::genivi::navigation::poiservice::POIService ←
 Types, 25

SPORTS_CENTER
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

STADIUM
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

STORE
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

STRING
 org::genivi::navigation::poiservice::POIService ←
 Types, 24

SWIMMING_POOL
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

SearchStatusChanged
 org::genivi::navigation::poiservice::POIContent ←
 AccessModule_client, 19

SearchStatusState
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

setAttributes
 org::genivi::navigation::poiservice::POISearch, 21

setCategories
 org::genivi::navigation::poiservice::POISearch, 21

setCenter
 org::genivi::navigation::poiservice::POISearch, 21

setCoordinatesFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 13

setLocale
 org::genivi::navigation::poiservice::POIConfiguration,
 13

setRouteHandle
 org::genivi::navigation::poiservice::POISearch, 21

setTimeFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 13

setUnitsOfMeasurement
 org::genivi::navigation::poiservice::POIConfiguration,
 13

Settings
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

shortDesc
 org::genivi::navigation::poiservice::POIService ←
 Types::Details, 8

SortOption
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

sortOptions
 org::genivi::navigation::poiservice::POIService ←
 Types::CAMCategory, 3

 org::genivi::navigation::poiservice::POIService ←
 Types::CAMCategoryUpdate, 4

 org::genivi::navigation::poiservice::POIService ←
 Types::Category, 4

sourceld
 org::genivi::navigation::poiservice::POIService ←
 Types::PoiCAMDetails, 10

StandardCategory
 org::genivi::navigation::poiservice::POIService ←
 Types, 26

standardCategoryId
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryDetails, 7

startPoiProximityAlert
 org::genivi::navigation::poiservice::POISearch, 21

startPoiSearch
 org::genivi::navigation::poiservice::POISearch, 22

status
 org::genivi::navigation::poiservice::POIService ←
 Types::CategoryAndStatus, 6

stringValue
 org::genivi::navigation::poiservice::POIService ←
 Types::AttributeValue, 3

TAXI_STAND
 org::genivi::navigation::poiservice::POIService ←
 Types, 28

THEATRE
 org::genivi::navigation::poiservice::POIService ←
 Types, 27

TIME_FORMAT
 org::genivi::navigation::poiservice::POIService←
 Types, 26

TOLL_LOCATION
 org::genivi::navigation::poiservice::POIService←
 Types, 28

TOLLBOOTH
 org::genivi::navigation::poiservice::POIService←
 Types, 25

TOURIST_ATTRACTION
 org::genivi::navigation::poiservice::POIService←
 Types, 28

TOURIST_OFFICE
 org::genivi::navigation::poiservice::POIService←
 Types, 28

TOURIST
 org::genivi::navigation::poiservice::POIService←
 Types, 25

TRAVEL_AGENCY
 org::genivi::navigation::poiservice::POIService←
 Types, 28

TRAVEL
 org::genivi::navigation::poiservice::POIService←
 Types, 25

TRUCK_DEALERSHIP
 org::genivi::navigation::poiservice::POIService←
 Types, 27

TWELVEH
 org::genivi::navigation::poiservice::POIConfiguration,
 12

TWENTYFOURH
 org::genivi::navigation::poiservice::POIConfiguration,
 12

TimeFormat
 org::genivi::navigation::poiservice::POIConfiguration,
 11

topLevel
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndLevel, 4
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndName, 5
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryDetails, 7

type
 org::genivi::navigation::poiservice::POIService←
 Types::AttributeDetails, 2
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryAttribute, 6
 org::genivi::navigation::poiservice::POIService←
 Types::Operator, 9
 org::genivi::navigation::poiservice::POIService←
 Types::PoiAttribute, 10

UNITS_OF_MEASUREMENT
 org::genivi::navigation::poiservice::POIService←
 Types, 26

USER_CONTACT
 org::genivi::navigation::poiservice::POIService←
 Types, 25

USER_IMPORT
 org::genivi::navigation::poiservice::POIService←
 Types, 25

unRegisterContentAccessModule
 org::genivi::navigation::poiservice::POIContent←
 Access, 15

unique_id
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndReason, 6

uniqueId
 org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndLevel, 4

org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndName, 5

org::genivi::navigation::poiservice::POIService←
 Types::CategoryAndStatus, 6

org::genivi::navigation::poiservice::POIService←
 Types::CategoryDetails, 7

Units
 org::genivi::navigation::poiservice::POIConfiguration,
 12

UnitsOfMeasurementAttribute
 org::genivi::navigation::poiservice::POIConfiguration,
 12, 14

UnitsOfMeasurementListValue
 org::genivi::navigation::poiservice::POIConfiguration,
 11

UnitsOfMeasurementValue
 org::genivi::navigation::poiservice::POIConfiguration,
 12

updateCategories
 org::genivi::navigation::poiservice::POIContent←
 Access, 15

UpdateReason
 org::genivi::navigation::poiservice::POIService←
 Types, 28

url
 org::genivi::navigation::poiservice::POIService←
 Types::Icon, 8
 org::genivi::navigation::poiservice::POIService←
 Types::Media, 9

VEHICLE_REPAIR
 org::genivi::navigation::poiservice::POIService←
 Types, 27

VETERINARIAN_SERVICE
 org::genivi::navigation::poiservice::POIService←
 Types, 27

validateCategories
 org::genivi::navigation::poiservice::POISearch, 22

value
 org::genivi::navigation::poiservice::POIService←
 Types::AttributeDetails, 2
 org::genivi::navigation::poiservice::POIService←
 Types::Operator, 9
 org::genivi::navigation::poiservice::POIService←
 Types::PoiAttribute, 10

WATER_CLOSET

org::genivi::navigation::poiservice::POIService ←
Types, [25](#)

YARD

org::genivi::navigation::poiservice::POIConfiguration,
[12](#)

ZOO

org::genivi::navigation::poiservice::POIService ←
Types, [28](#)