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GENIVI Alliance

³GENIVI Document CS00064

⁴NavigationCore

⁵Component Specification

⁶Accepted Version 4.0.0

⁷25-01-2017

⁸Sponsored by:

⁹GENIVI Alliance

¹⁰true

¹¹Accepted

¹²**Abstract:**

¹³This document provides the Component Specification for the NavigationCore

¹⁴**Keywords:**

¹⁵Navigation, LocationInput, Routing, Guidance

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³<http://www.genivi.org>true

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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

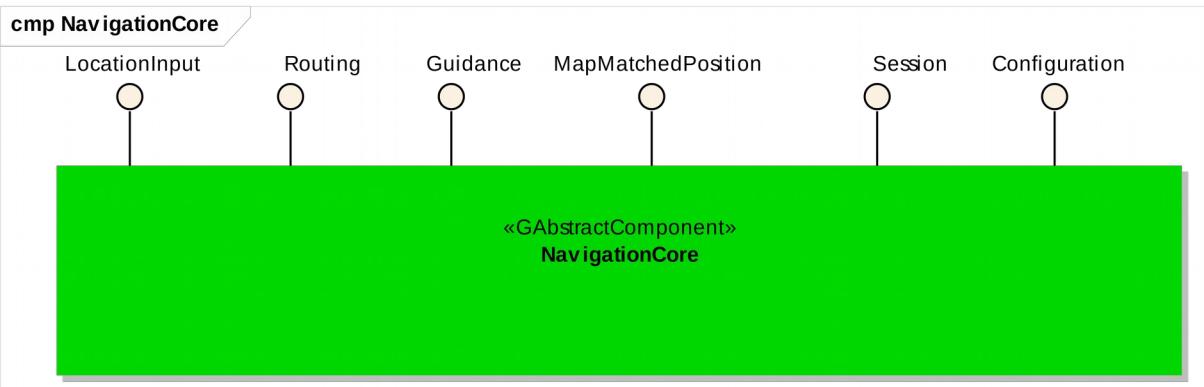
2This document describes the NavigationCore API.

¹3 Terminology

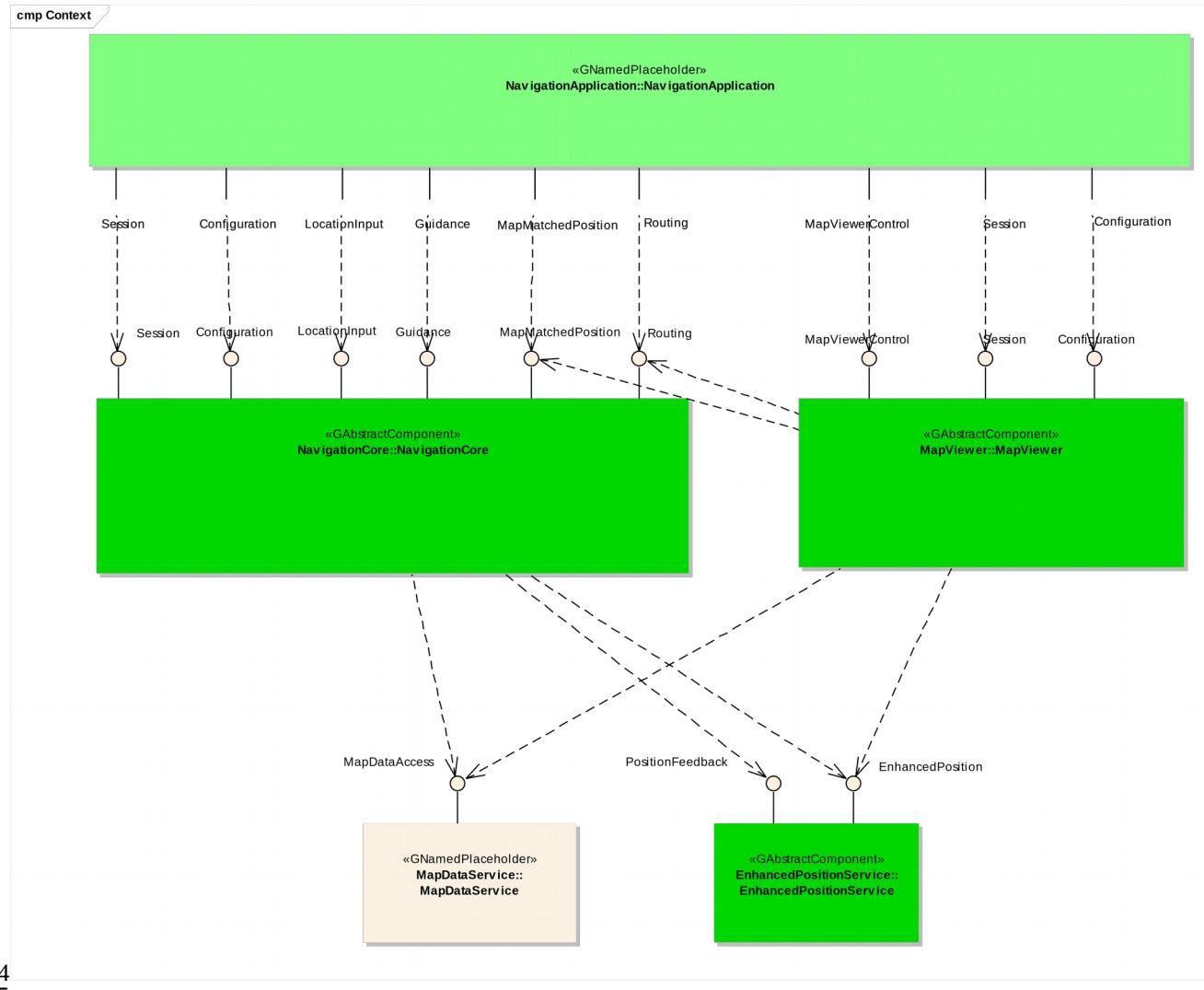
<i>Term</i>	<i>Description</i>
Link-ID	Identifier of a route segment in a database

4 Architecture

4.1 Interfaces



34.2 Interaction with other Components



15 API

25.1 Git Repository

3The NavigationCore interfaces can be found in the GENIVI Git repository at:

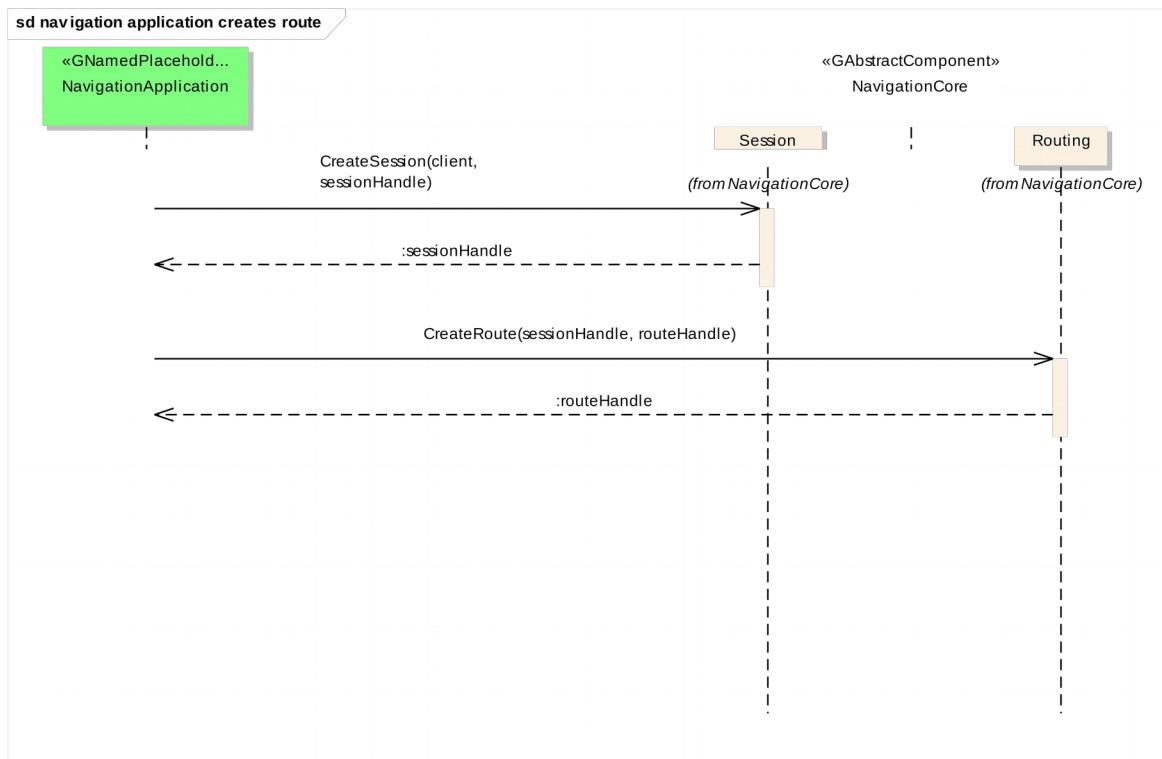
4<https://github.com/GENIVI/navigation/tree/master/api/franca/navigation/navigationcore>

5.2 Sequence Diagrams

65.2.1 navigation application creates route

7

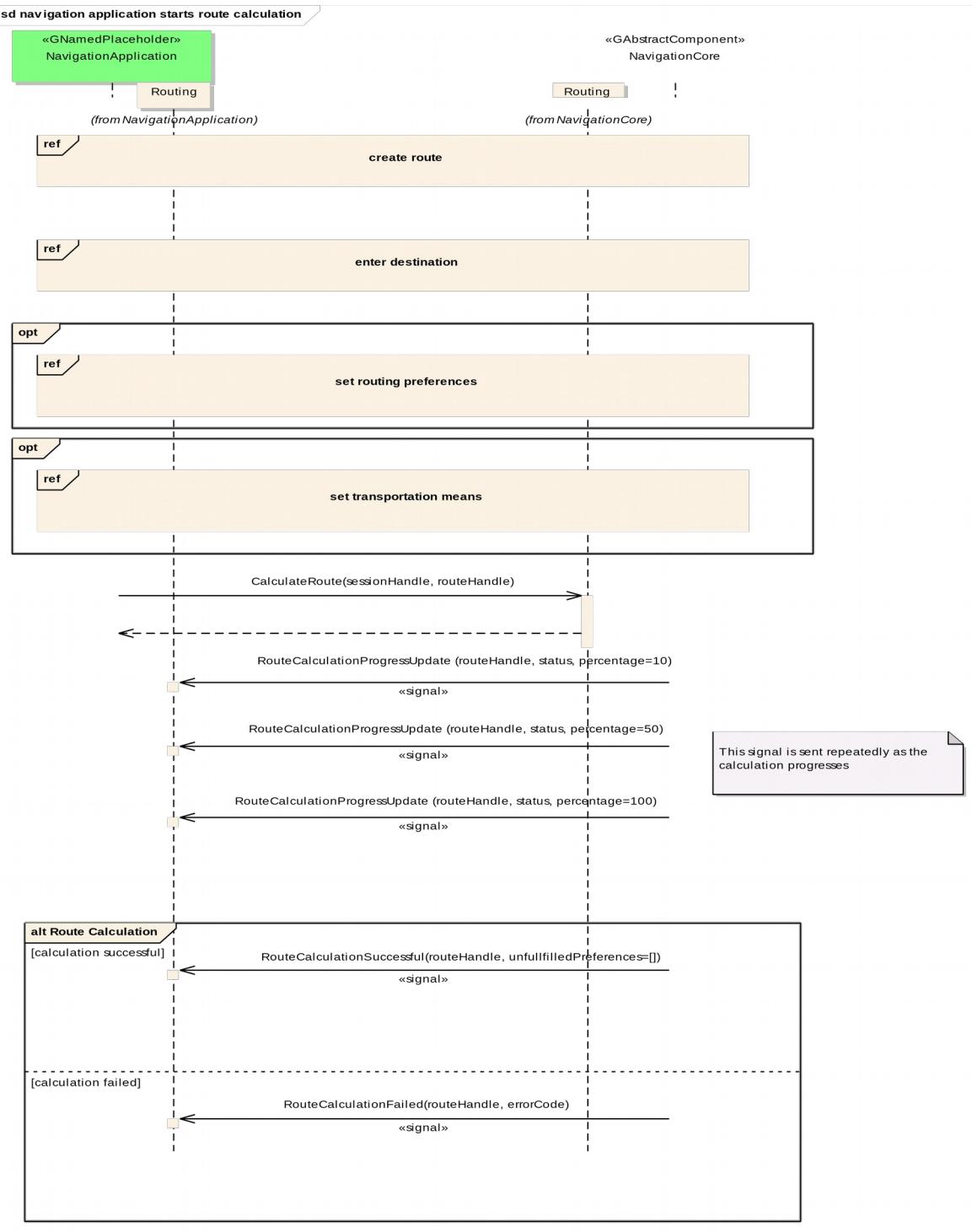
8



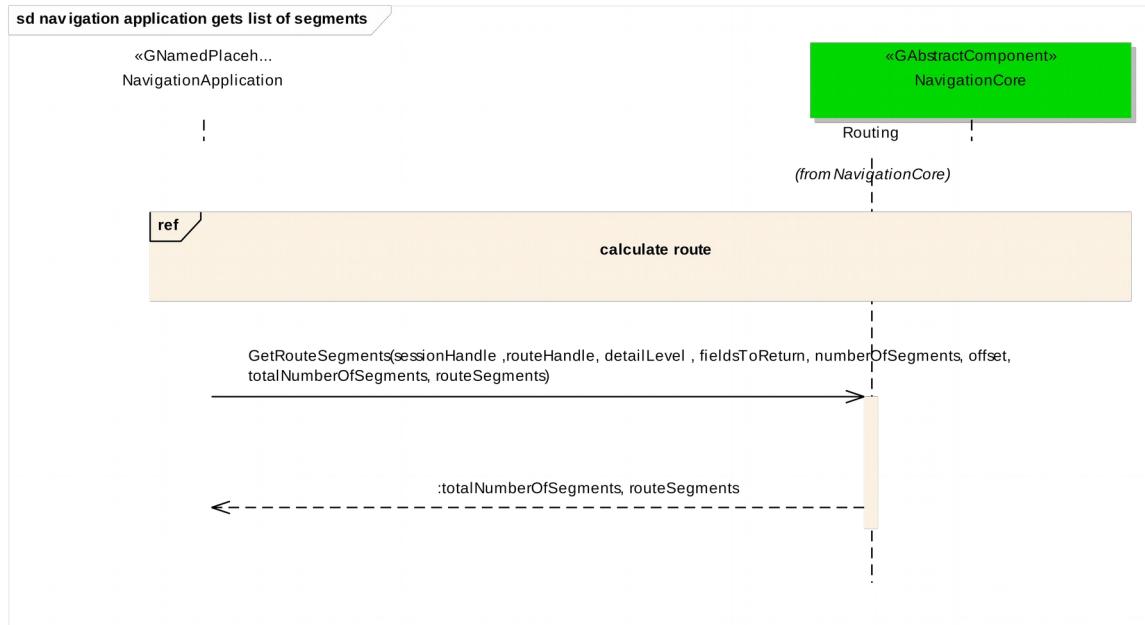
9

10

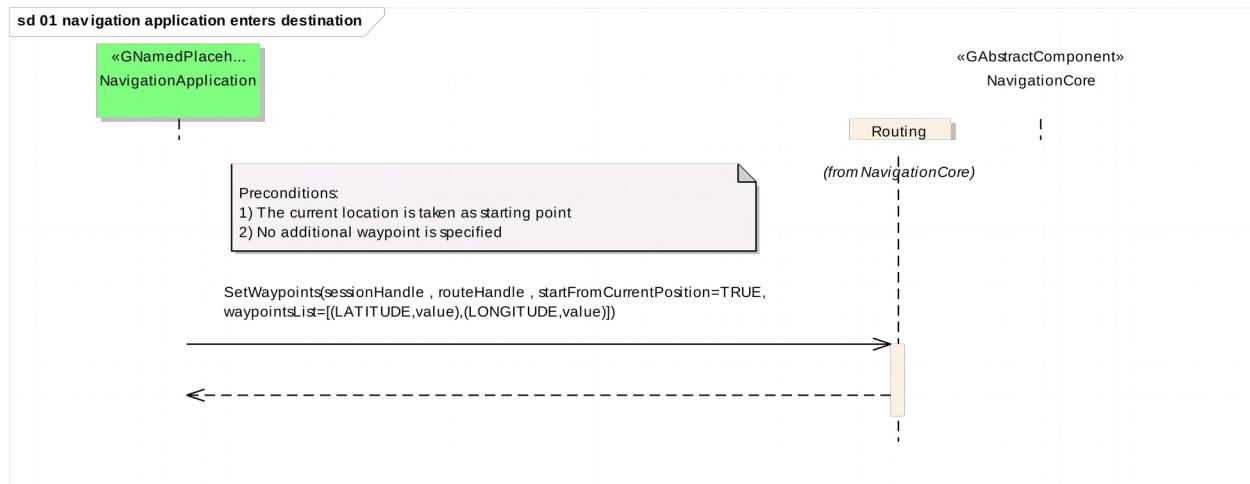
15.2.2 navigation application starts route calculation



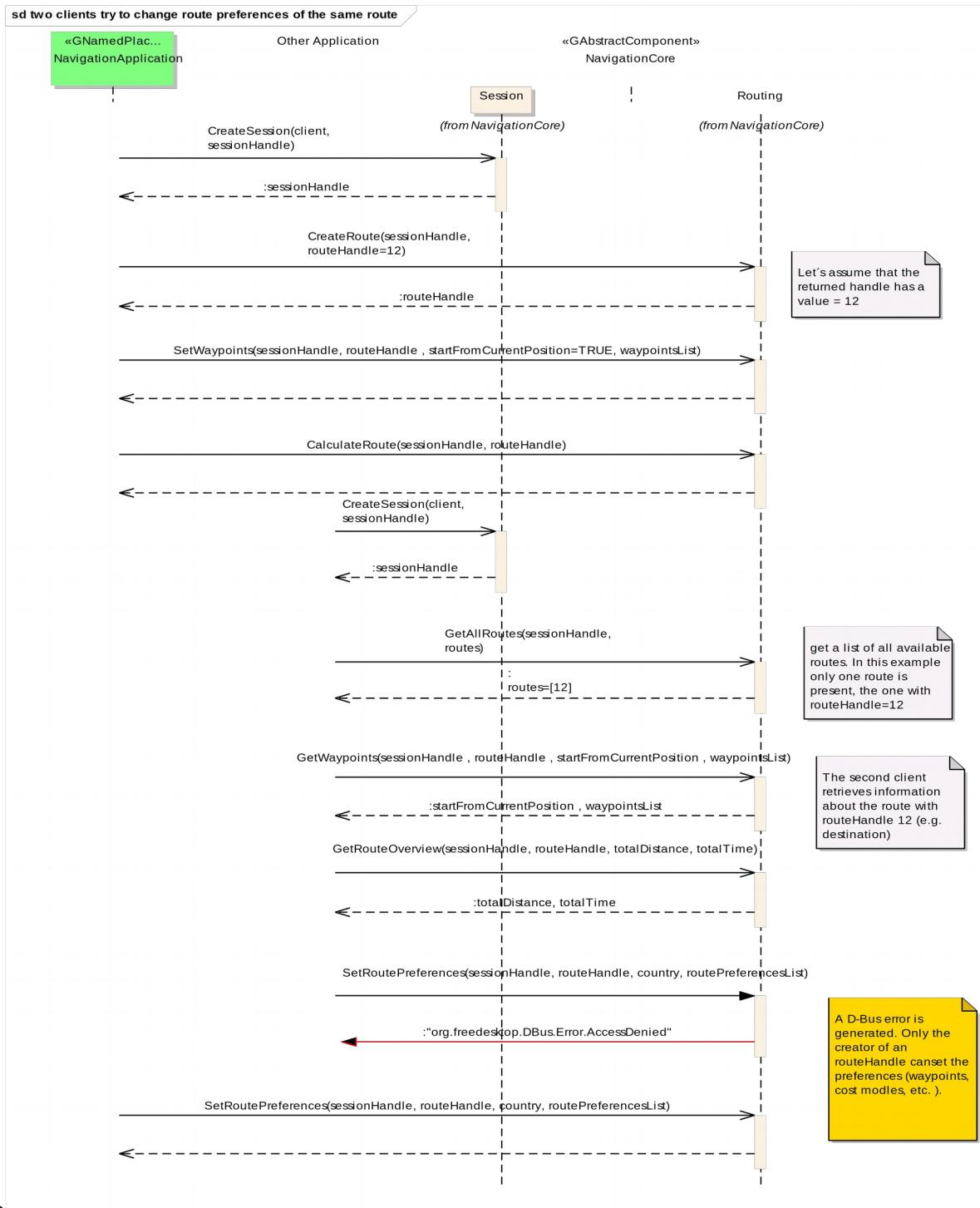
2 5.2.3 navigation application gets list of segments



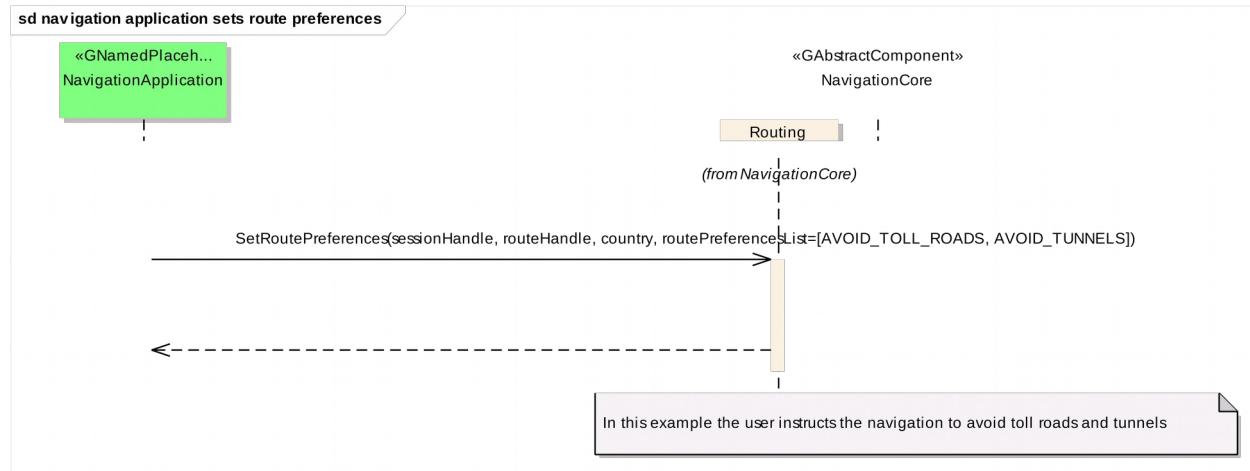
25.2.4 navigation application enters destination



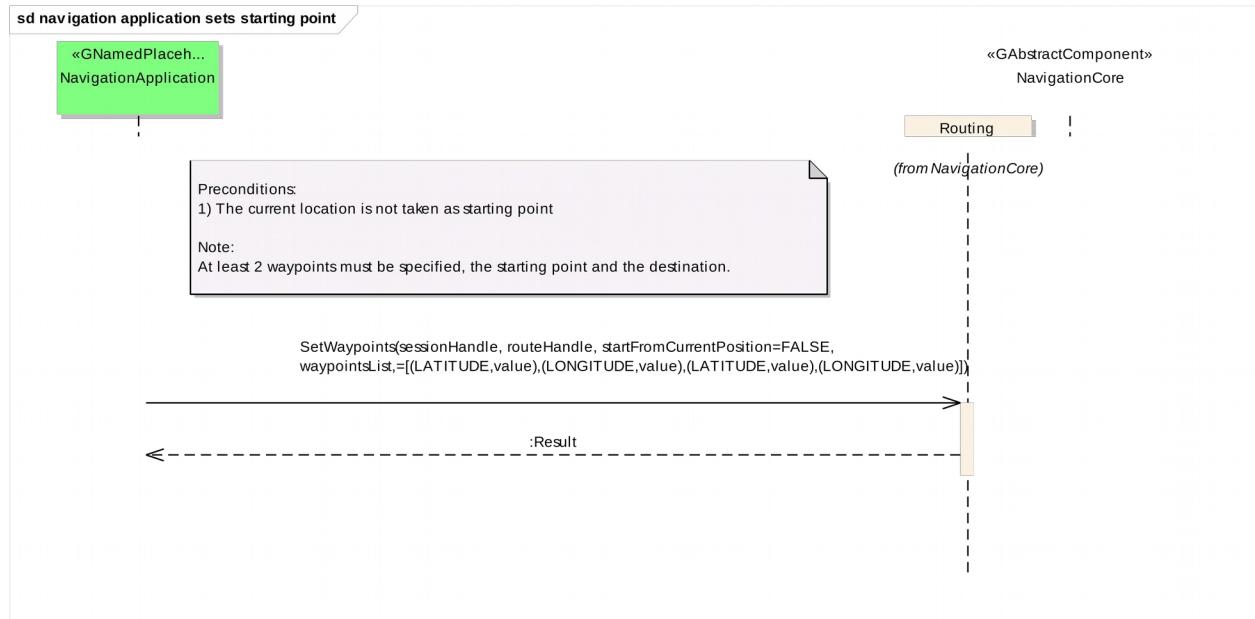
15.2.5 two clients try to change route preferences of the same route



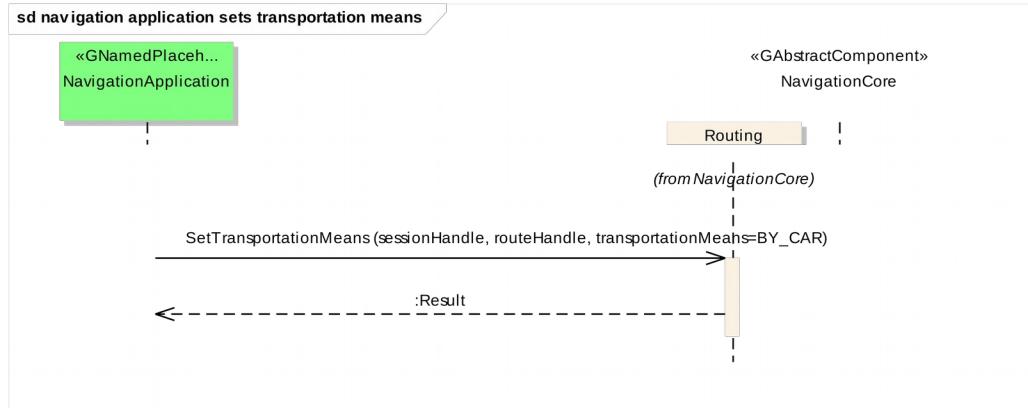
3 5.2.6 navigation application sets route preferences



3 5.2.7 navigation application sets starting point



25.2.8 navigation application sets transportation means



1

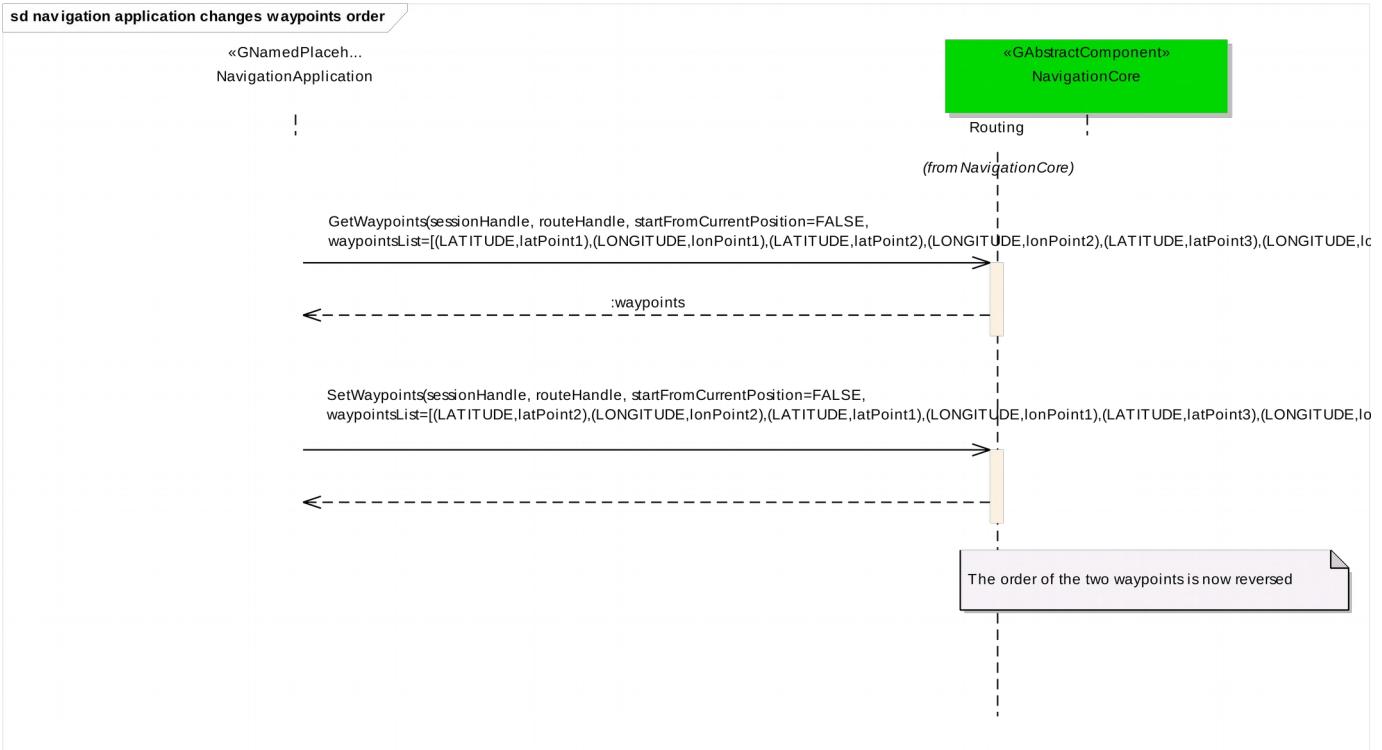
2

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2 5.2.9 navigation application changes waypoints order

3

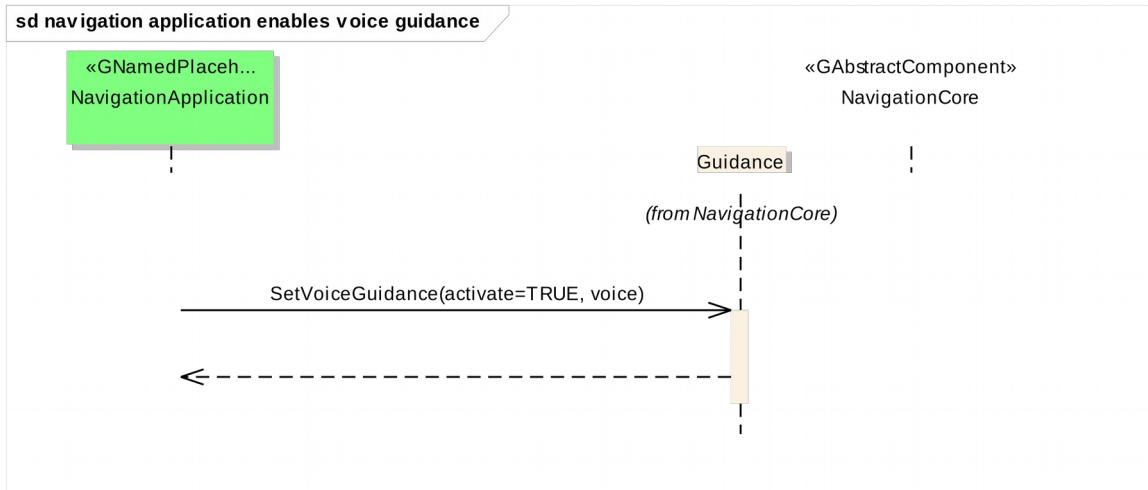
4



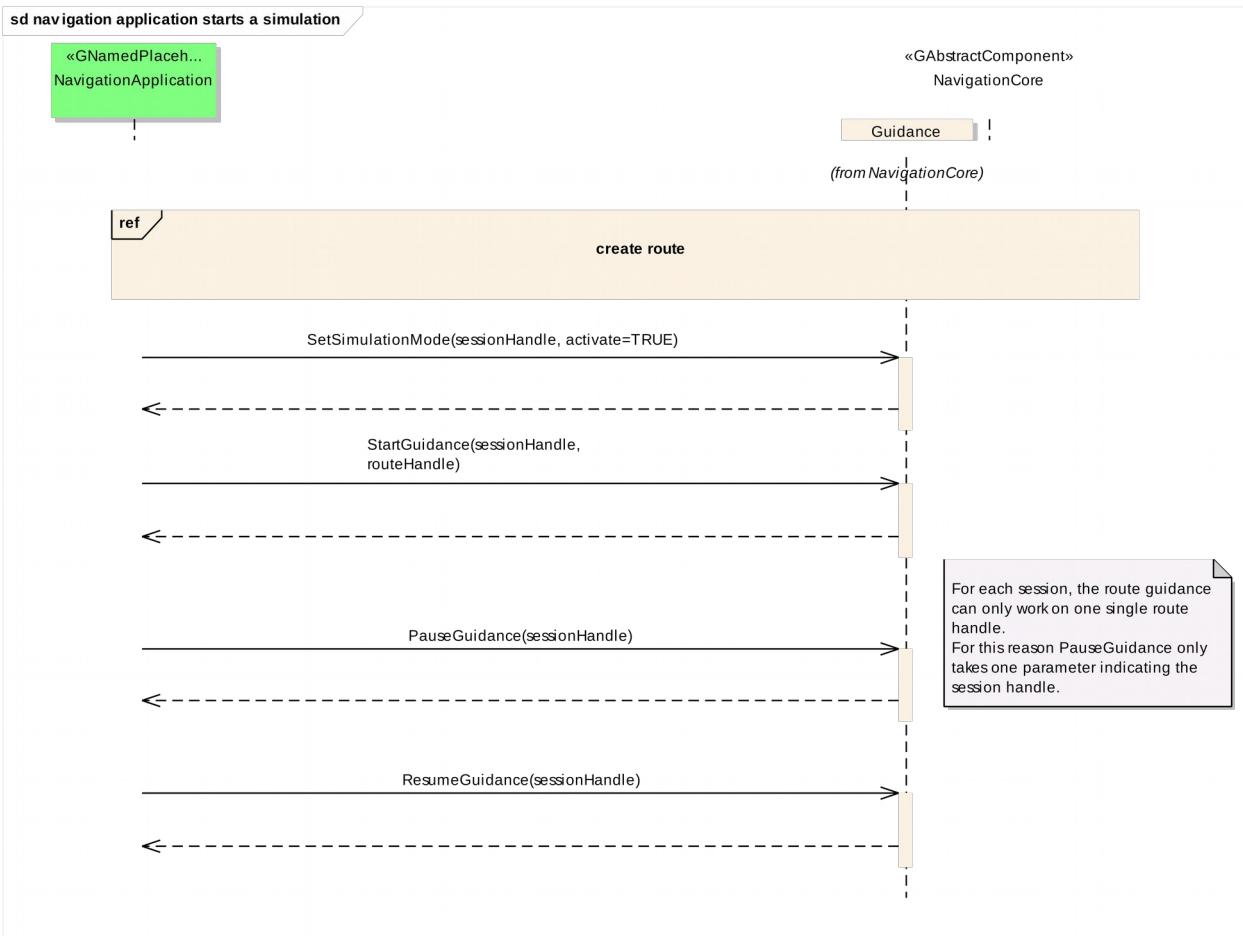
5

6

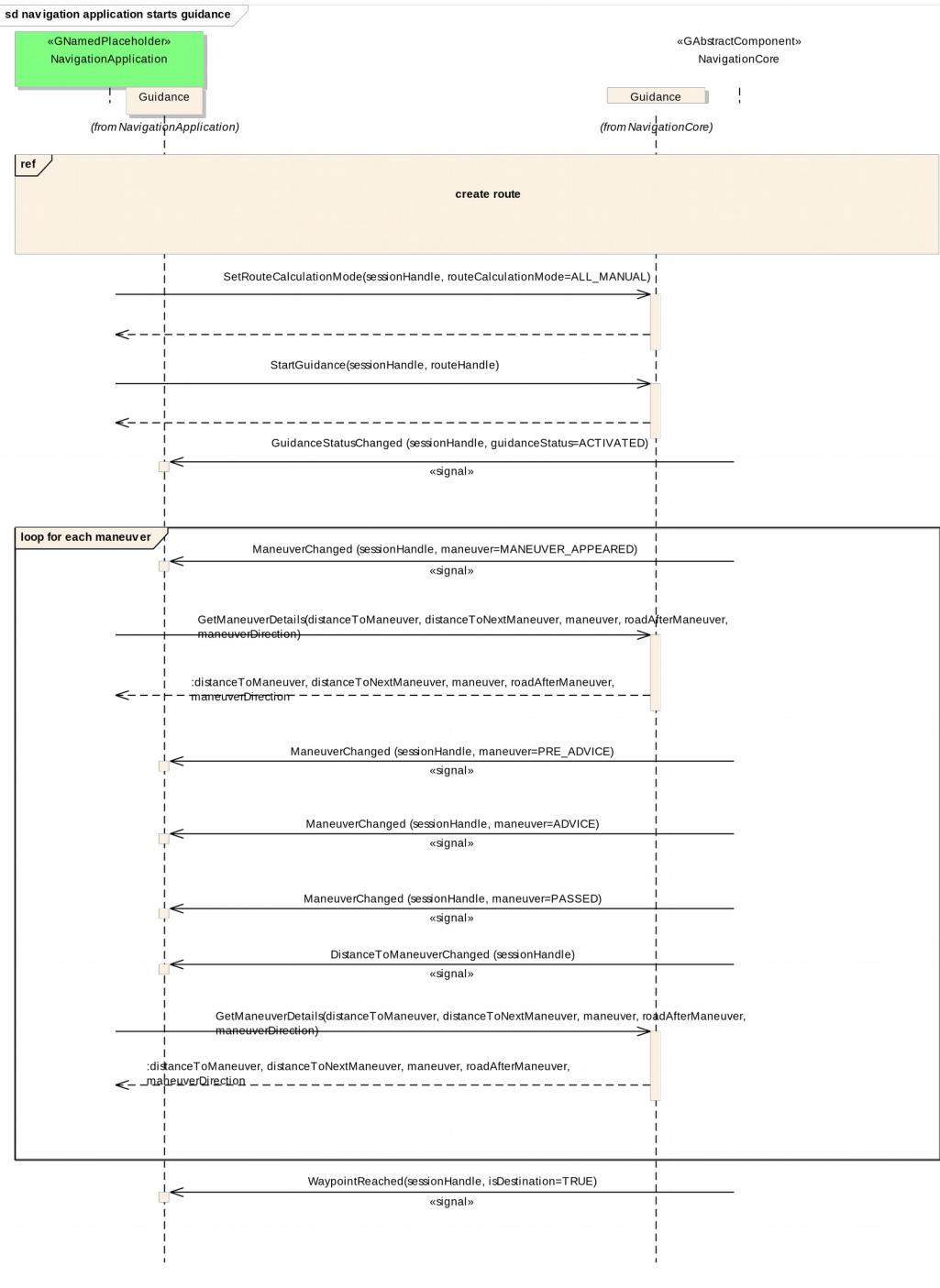
15.2.10 navigation application enables voice guidance



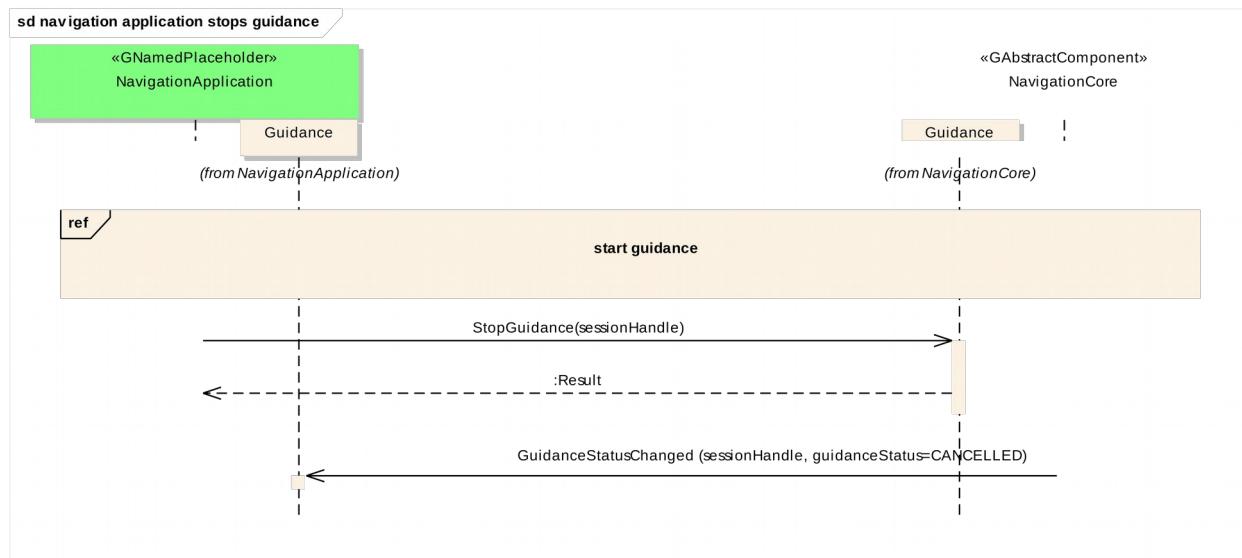
25.2.11 navigation application starts a simulation



15.2.12 navigation application starts guidance

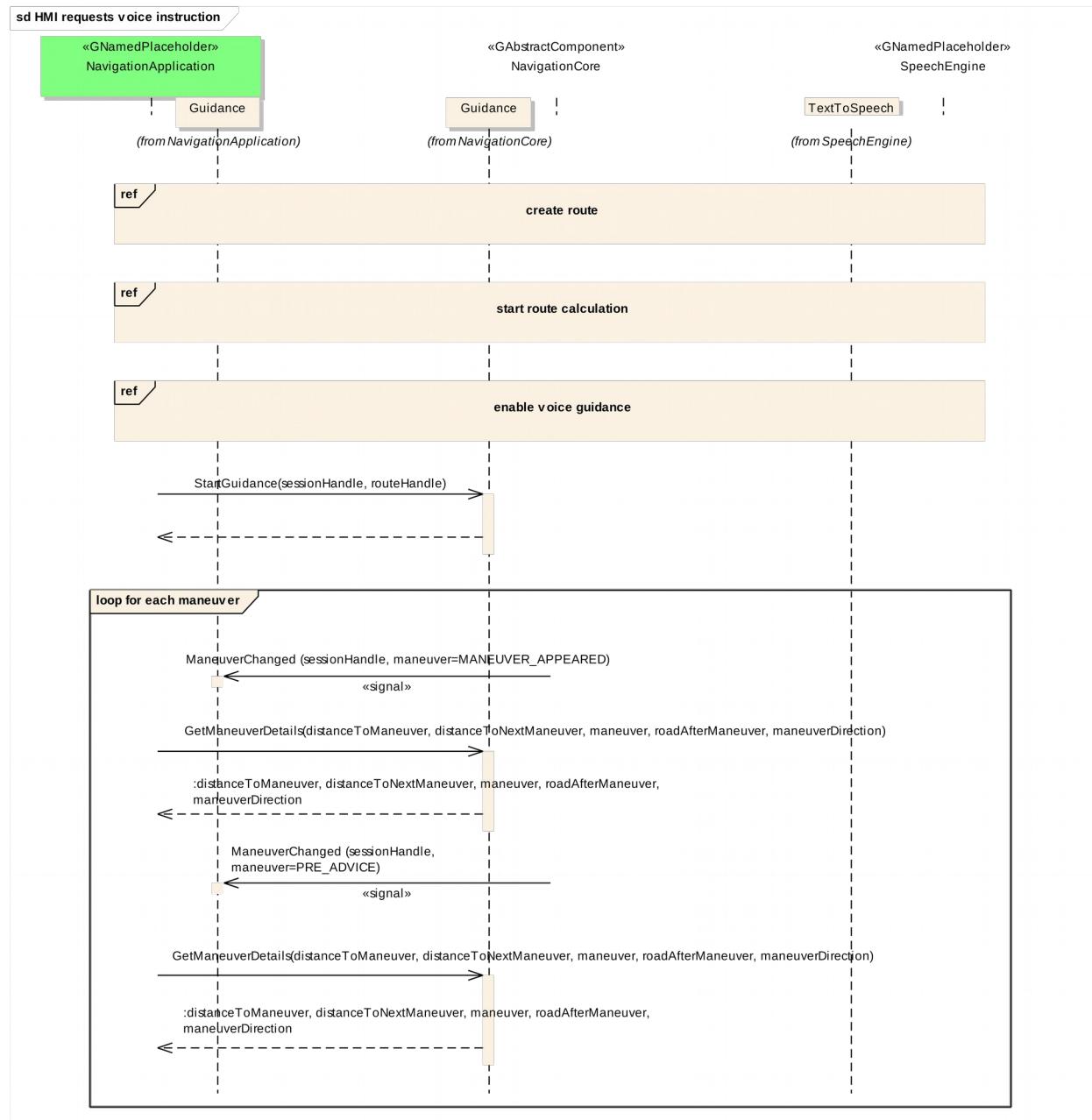


15.2.13 navigation application stops guidance



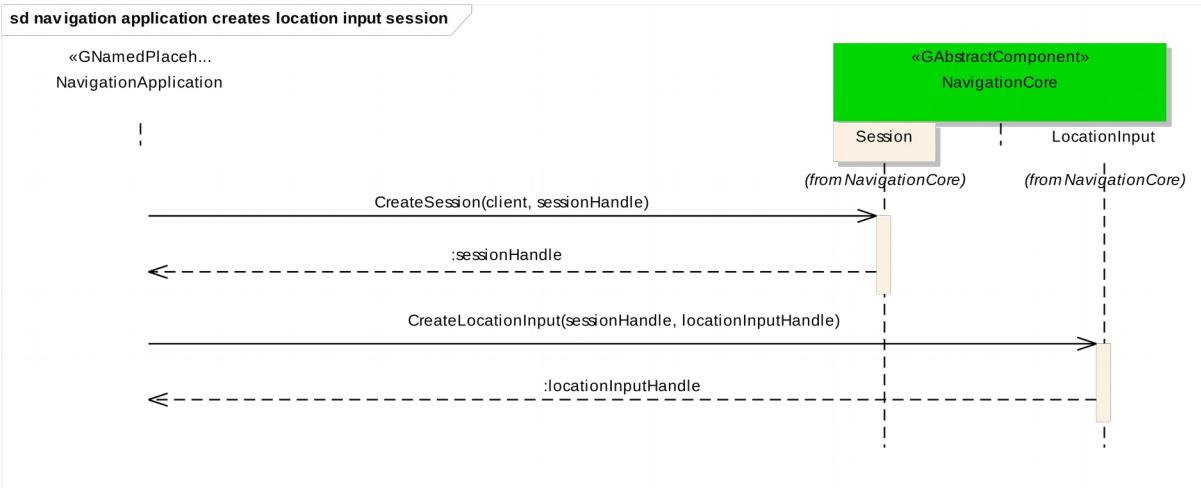
3.5.2.14 HMI requests voice instruction

4

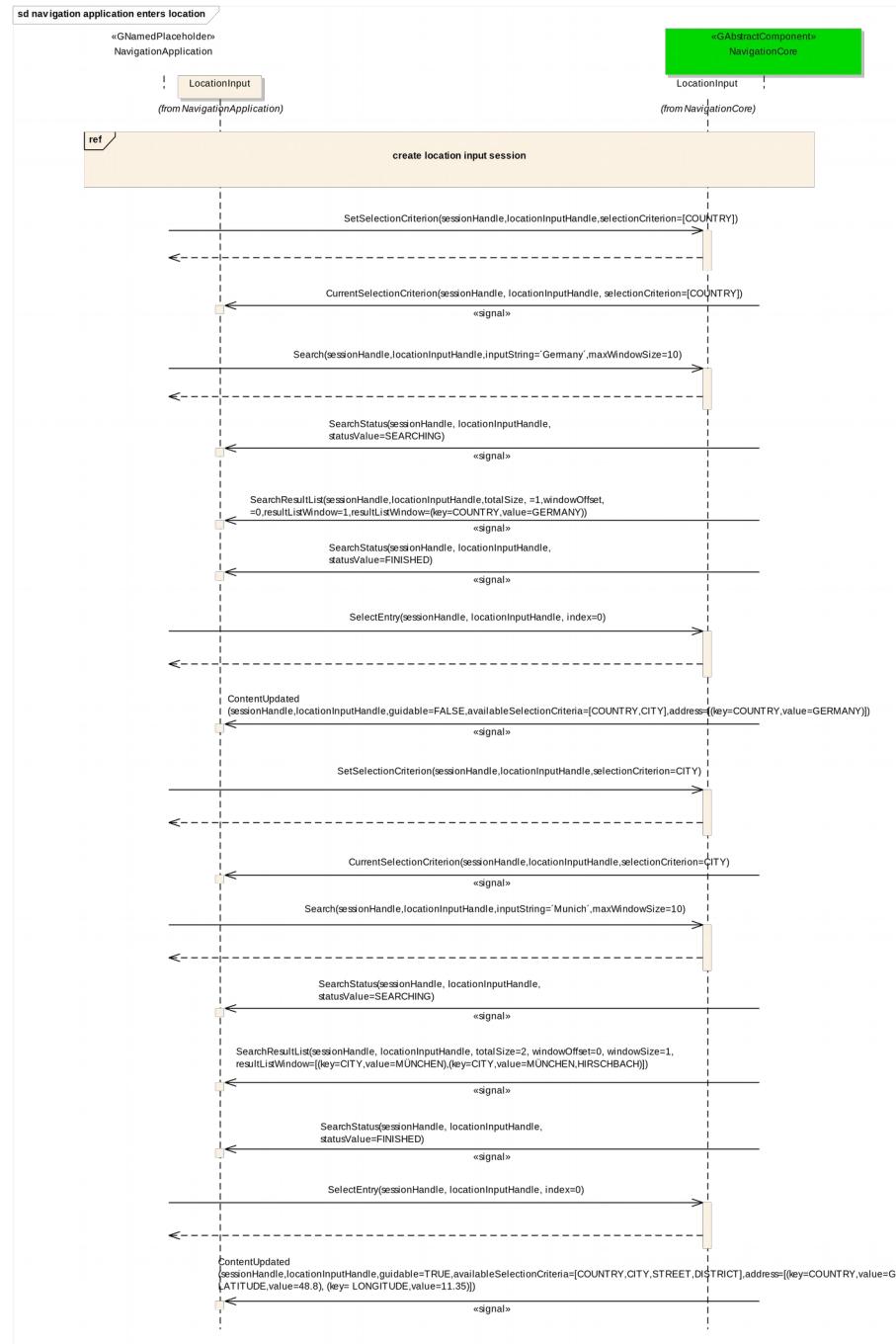


5

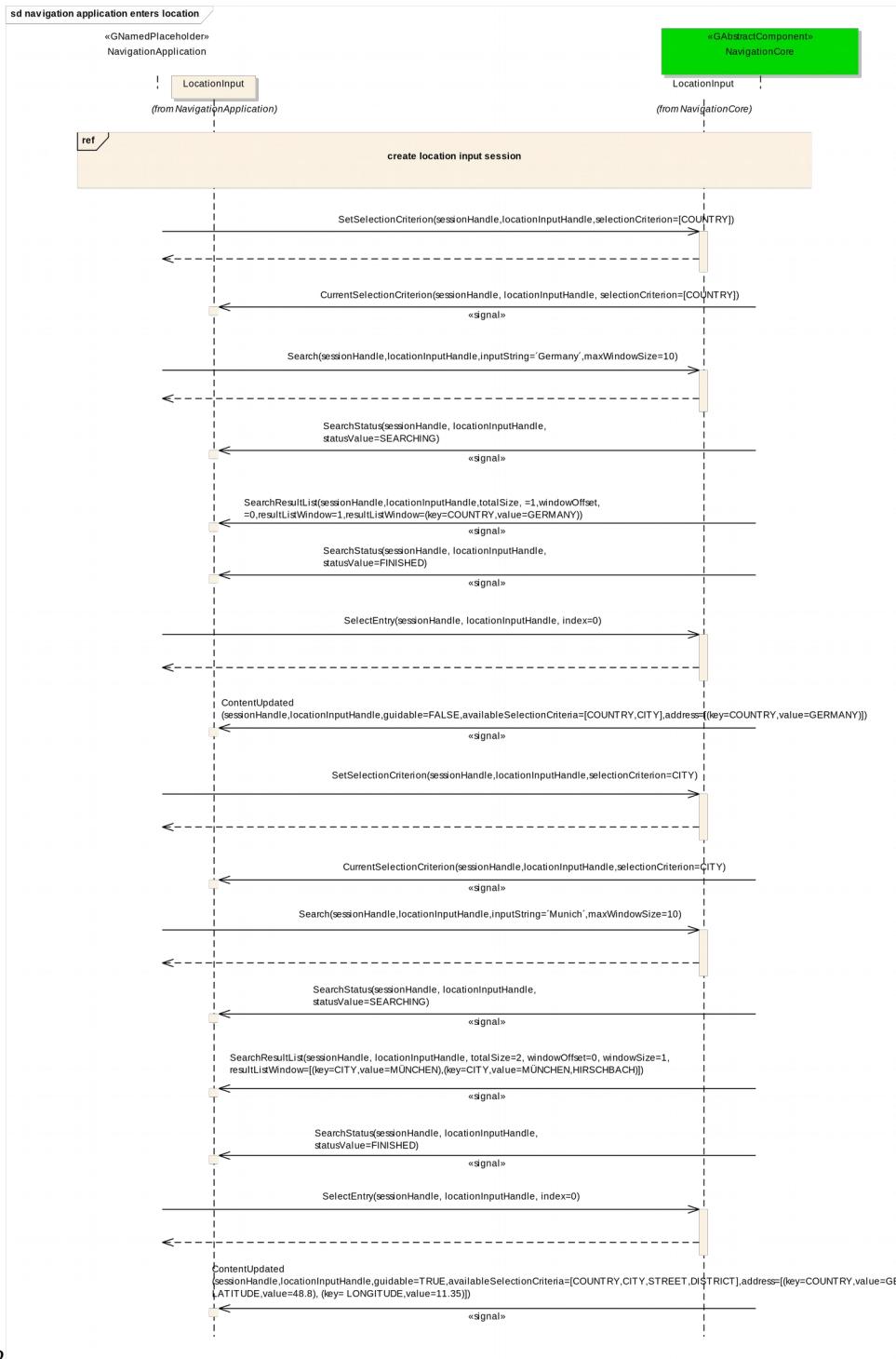
25.2.15 navigation application creates location input session



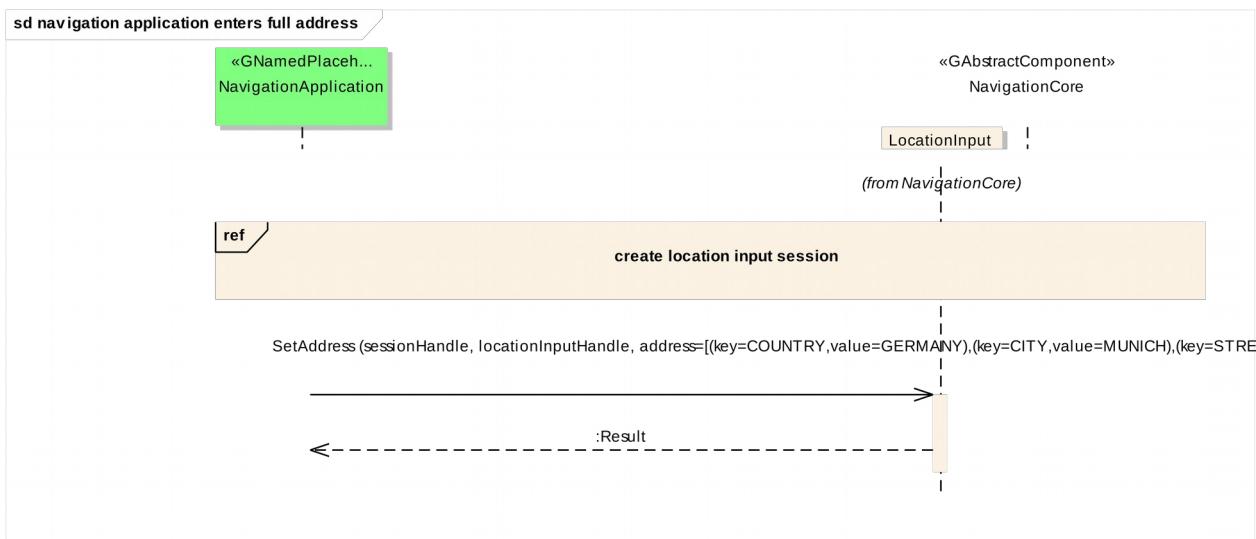
25.2.16 navigation application enters location



15.2.17 navigation application enters location using speller



15.2.18 navigation application enters full address



15.3 Interfaces

25.4 The following pages describe the interfaces of the NavigationCore API.

POIService

Generated by Doxygen 1.8.11

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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 [navigationcore](#)

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

Classes

- interface [Configuration](#)
- interface [Configuration_client](#)
- interface [Guidance](#)
- interface [Guidance_client](#)
- interface [LocationInput](#)
- interface [LocationInput_client](#)
- interface [MapMatchedPosition](#)
- interface [MapMatchedPosition_client](#)
- interface [NavigationCoreTypes](#)
- interface [Routing](#)
- interface [Routing_client](#)
- interface [Session](#)
- interface [Session_client](#)

2 Class Documentation

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

Public Attributes

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

2.1.1 Member Data Documentation

2.1.1.1 String [org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::addressField](#)

2.1.1.2 [MatchMode org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::matchMode](#)

2.1.1.3 Int16 [org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::offset](#)

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

2.1.1.5 Timestamp [org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue::timestamp](#)

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

- [MapMatchedPosition.fidl](#)

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

Public Attributes

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

2.2.1 Member Data Documentation

2.2.1.1 Coordinate3D [org::genivi::navigation::navigationcore::LocationInput::AddressValue::coordinate3DValue](#)

2.2.1.2 Double [org::genivi::navigation::navigationcore::LocationInput::AddressValue::doubleValue](#)

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

2.2.1.4 Int32 [org::genivi::navigation::navigationcore::LocationInput::AddressValue::intValue](#)

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

2.2.1.6 String [org::genivi::navigation::navigationcore::LocationInput::AddressValue::stringValue](#)

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

- [LocationInput.fidl](#)

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

Public Attributes

- UInt32 offset
- UInt32 length

2.3.1 Member Data Documentation

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

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

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

- [Routing.fidl](#)

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

Public Attributes

- PreferenceMode mode
- ConditionPreferenceSource source

2.4.1 Member Data Documentation

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

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

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

- [Routing.fidl](#)

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

Public Types

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

Public Member Functions

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

Public Attributes

- map_UnitsOfMeasurement [UnitsOfMeasurementAttribute](#) => [UnitsOfMeasurementValue](#)
- map_UnitsOfMeasurementList [UnitsOfMeasurementAttribute](#) => [UnitsOfMeasurementListValue](#)

2.5.1 Detailed Description

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

2.5.2 Member Typedef Documentation

2.5.2.1 [typedef UnitsOfMeasurementValue \[\] org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementListValue](#)

2.5.3 Member Enumeration Documentation

2.5.3.1 [enum org::genivi::navigation::navigationcore::Configuration::CoordinatesFormat](#)

Enumerator

INVALID
DEGREES
MINUTES
SECONDS

2.5.3.2 [enum org::genivi::navigation::navigationcore::Configuration::Settings](#)

Enumerator

INVALID
UNITS_OF_MEASUREMENT
LOCALE
TIME_FORMAT
COORDINATES_FORMAT

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

Enumerator

INVALID
LENGTH

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

Enumerator

METER
MILE
KM
YARD
FOOT

2.5.4 Member Function Documentation

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

#comment : Get the coordinates format .

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

#comment : Get the current language set .

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

#comment : Get the supported set of coordinates format .

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

#comment : Get the supported set of locales .

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

#comment : Get the supported set of time format .

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

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

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

#comment : Get the current time format .

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

#comment : Get the units of measurement .

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

#comment : This method returns the API version .

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

#comment : Set the coordinates format.

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

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

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

#comment : Set the time format.

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

#comment : Set the units of measurement .

2.5.5 Member Data Documentation

2.5.5.1 map_UnitsOfMeasurement org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementAttribute => UnitsOfMeasurementValue

2.5.5.2 map_UnitsOfMeasurementList org::genivi::navigation::navigationcore::Configuration::UnitsOfMeasurementAttribute => UnitsOfMeasurementListValue

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

- [Configuration.fidl](#)

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

Public Member Functions

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

2.6.1 Member Function Documentation

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

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

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

- Configuration.fidl

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

Classes

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

Public Types

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

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

Public Member Functions

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

Public Attributes

- map_ `ManeuverData` `ManeuverDataAttribute` => `ManeuverAttributeValue`

2.7.1 Detailed Description

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

2.7.2 Member Enumeration Documentation

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

Enumerator

`ALL_MANUAL`
`ALL_AUTOMATIC`
`TRAFFIC_MANUAL`
`OFF_ROUTE_MANUAL`

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

Enumerator

ACTIVE

INACTIVE

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

Enumerator

DIVIDER_UNDEFINED

DIVIDER_INTERRUPTEDLONG

DIVIDER_INTERRUPTEDSHORT

DIVIDER_SOLID_SINGLE

DIVIDER_SOLID_DOUBLE

DIVIDER_SOLID_INTERRUPTED

DIVIDER_INTERRUPTED_SOLID

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

Enumerator

LANE_INFO_BITMASK_STRAIGHT

LANE_INFO_BITMASK_SLIGHTRIGHT

LANE_INFO_BITMASK_RIGHT

LANE_INFO_BITMASK_SHARPRIGHT

LANE_INFO_BITMASK_RIGHTTURN

LANE_INFO_BITMASK_SLIGHTLEFT

LANE_INFO_BITMASK_LEFT

LANE_INFO_BITMASK_SHARPLEFT

LANE_INFO_BITMASK_LEFTTURN

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

Enumerator

LENGTH

DIRECTION

EXIT_NUMBER

ROAD_FORM

LANE_INFO

COORDINATE

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

Enumerator

STRAIGHT
LEFT
SLIGHT_LEFT
HARD_LEFT
RIGHT
SLIGHT_RIGHT
HARD_RIGHT
UTURN_RIGHT
UTURN_LEFT

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

Enumerator

DIRECTION
EXIT_NUMBER
ROAD_FORM
LANE_INFO

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

Enumerator

CRUISE
MANEUVER_APPEARED
PRE_ADVICE
ADVICE
PASSED

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

Enumerator

STRAIGHT_ON
CROSSROAD
ROUNDABOUT
HIGHWAY_ENTER
HIGHWAY_EXIT
FOLLOW_SPECIFIC_LANE
DESTINATION
WAYPOINT
TURN
BIFURCATION

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

Enumerator

DISABLED_PROMPT
AUTOMATIC_PROMPT
MANUAL_PROMPT

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

Enumerator

ROAD_REGULAR
ROAD_HIGHWAY_MOTORWAY
ROAD_FERRY

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

Enumerator

DEFAULT
TOLL_ROADS

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

Enumerator

TRAFFIC
OFF_ROUTE
MANUAL

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

Enumerator

LEFT
RIGHT
NOT_AVAILABLE

2.7.3 Member Function Documentation

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

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

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

#comment : getGuidanceDetails = This method retrieves guidance information

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

#comment : getGuidanceStatus = This method retrieves the guidance status

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2.7.4 Member Data Documentation

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

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

- [Guidance.fidl](#)

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

Public Member Functions

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

2.8.1 Member Function Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

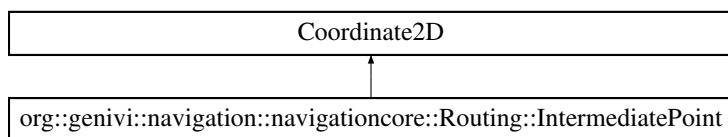
broadcast #comment : waypointReached = This signal is emitted when the destination is reached

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

- [Guidance.fidl](#)

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

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



Public Attributes

- [WayPointType type](#)

2.9.1 Member Data Documentation

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

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

- [Routing.fidl](#)

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

Public Attributes

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

2.10.1 Member Data Documentation

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

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

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

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

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

- Guidance.fidl

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

Classes

- union AddressValue

Public Types

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

Public Member Functions

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

Public Attributes

- map_Address [AddressAttribute](#) => [AddressValue](#)
- map_ValidationStatus [AddressAttribute](#) => [ValidationType](#)

2.11.1 Detailed Description

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

2.11.2 Member Typedef Documentation

2.11.2.1 [typedef AddressAttribute \[\] org::genivi::navigation::navigationcore::LocationInput::AddressAttributeList](#)

2.11.3 Member Enumeration Documentation

2.11.3.1 [enum org::genivi::navigation::navigationcore::LocationInput::AddressAttribute : GeoLocalizedEnum](#)

Enumerator

COUNTRY
COUNTRYCODE
STATE
CITY
STREET
ROAD_NUMBER
HOUSENUMBER

HOUSENAME
CROSSING
DISTRICT
PHONENUMBER
POINAME
TOWNCENTER
LOCATION_INPUT
FULL_ADDRESS
POSTAL_CODE
ROADSHIELDS

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

Enumerator

SEARCHING
FINISHED

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

Enumerator

OK
UNKNOWN
AMBIGUOUS
INCONSISTENT

2.11.4 Member Function Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2.11.5 Member Data Documentation

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

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

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

- [LocationInput.fidl](#)

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

Public Member Functions

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

2.12.1 Member Function Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- [LocationInput.fidl](#)

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

Public Attributes

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

2.13.1 Member Data Documentation

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

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

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

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

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

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

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

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

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

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

- [Guidance.fidl](#)

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

Public Attributes

- [ManeuverDirection enumValue](#)
- [UInt16 uint16Value](#)
- [String stringValue](#)
- [RoadForm roadFormValue](#)
- [LaneInfo\[\] laneInfoValue](#)
- [Coordinate3D coordinate3DValue](#)

2.14.1 Member Data Documentation

2.14.1.1 [Coordinate3D org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::coordinate3DValue](#)

2.14.1.2 [ManeuverDirection org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::enumValue](#)

2.14.1.3 [LaneInfo \[\] org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::laneInfoValue](#)

2.14.1.4 [RoadForm org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::roadFormValue](#)

2.14.1.5 [String org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::stringValue](#)

2.14.1.6 [UInt16 org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue::uint16Value](#)

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

- [Guidance.fidl](#)

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

Public Attributes

- [UInt32 offsetOfManeuver](#)
- [UInt32 travelTime](#)
- [ManeuverDirectionType direction](#)
- [ManeuverType maneuver](#)
- [ManeuverData maneuverData](#)

2.15.1 Member Data Documentation

2.15.1.1 [ManeuverDirectionType org::genivi::navigation::navigationcore::Guidance::ManeuverItem::direction](#)

2.15.1.2 [ManeuverType org::genivi::navigation::navigationcore::Guidance::ManeuverItem::maneuver](#)

2.15.1.3 [ManeuverData org::genivi::navigation::navigationcore::Guidance::ManeuverItem::maneuverData](#)

2.15.1.4 [UInt32 org::genivi::navigation::navigationcore::Guidance::ManeuverItem::offsetOfManeuver](#)

2.15.1.5 [UInt32 org::genivi::navigation::navigationcore::Guidance::ManeuverItem::travelTime](#)

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

- [Guidance.fidl](#)

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

Classes

- union [AddressItemValue](#)
- union [PositionItemValue](#)
- union [PositionOnSegmentValue](#)
- union [PositionStatusValue](#)

Public Types

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

Public Member Functions

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

Public Attributes

- map_[PositionItemDict](#) [PositionItemKey](#) => [PositionItemValue](#)
- map_[AddressItemDict](#) [AddressItemKey](#) => [AddressItemValue](#)
- map_[PositionOnSegmentDict](#) [PositionOnSegmentKey](#) => [PositionOnSegmentValue](#)
- map_[PositionStatusDict](#) [PositionStatus](#) => [PositionStatusValue](#)

2.16.1 Detailed Description

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

2.16.2 Member Enumeration Documentation

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

Enumerator

TIMEZONE_OFFSET

DAYLIGHT_OFFSET

COUNTRY

STATE

CITY

STREET

HOUSENUMBER

CROSSING

DISTRICT

PHONENUMBER

POINAME

TOWNCENTER

LOCATION_INPUT

FULL_ADDRESS

COUNTRYCODE

HOUSENAME

POSTAL_CODE

ROAD_NUMBER

MATCH_TYPE

ROADSHIELDS

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

Enumerator

NO_FIX

TIME_FIX

FIX_2D

FIX_3D

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

Enumerator

MATCH_TYPE

ON_ROAD

OFF_ROAD

ON_FERRY

IN_TUNNEL

ON_CARPARK

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

Enumerator

HEADING

SPEED

CLIMB

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

Enumerator

SEGMENT_ID

DIRECTION_ON_SEGMENT

DISTANCE_ON_SEGMENT

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

Enumerator

GNSS_FIX_STATUS

DR_STATUS

MM_STATUS

SIMULATION_MODE

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

Enumerator

SIMULATION_STATUS_NO_SIMULATION

SIMULATION_STATUS_RUNNING

SIMULATION_STATUS_PAUSED

SIMULATION_STATUS_FIXED_POSITION

2.16.3 Member Function Documentation

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

#comment : getCurrentAddress = This method returns the current address

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

#comment : getPosition = This method returns the current position

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

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

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

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

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

#comment : getSimulationStatus = This method retrieves the simulation status

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

#comment : getStatus = This method returns the current status

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

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

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

#comment : pauseSimulation = This method freezes the current location

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

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

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

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

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

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

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

2.16.4 Member Data Documentation

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

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

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

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

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

- [MapMatchedPosition.fidl](#)

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

Public Member Functions

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

2.17.1 Member Function Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- [MapMatchedPosition.fidl](#)

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

Classes

- struct [RoadShield](#)
- struct [RoadShieldAffix](#)

Public Types

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

2.18.1 Member Enumeration Documentation

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

Enumerator

LATITUDE

LONGITUDE

ALTITUDE

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

Enumerator

NONE

NORTH

EAST

SOUTH

WEST

ALTERNATE

BYPASS

BUSINESS_LOOP

BUSINESS_ROUTE

BUSINESS_SPUR

EXTENDED

COLLECTOR

EXPRESS

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

Enumerator

TIMESTAMP

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

- [NavigationCoreTypes.fidl](#)

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

Public Attributes

- Timestamp [timestamp](#)
- Boolean [status](#)
- [GnnsFixStatus](#) fix
- Double [doubleValue](#)
- Int32 [intValue](#)

2.19.1 Member Data Documentation

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

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

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

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

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

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

- [MapMatchedPosition.fidl](#)

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

Public Attributes

- Boolean [directionOnSegment](#)
- Double [distanceOnSegment](#)
- ByteBuffer [segment](#)
- Timestamp [timestamp](#)

2.20.1 Member Data Documentation

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

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

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

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

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

- [MapMatchedPosition.fidl](#)

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

Public Attributes

- Boolean [statusValue](#)
- GnnsFixStatus [fixStatus](#)
- Timestamp [timestamp](#)

2.21.1 Member Data Documentation

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

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

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

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

- [MapMatchedPosition.fidl](#)

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

Public Attributes

- [PreferenceMode mode](#)
- [RoutePreferenceSource source](#)

2.22.1 Member Data Documentation

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

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

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

- [Routing.fidl](#)

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

Public Attributes

- String [roadNumber](#)
- [RoadShieldAffix\[\] affxes](#)
- String [iconSetId](#)

2.23.1 Member Data Documentation

2.23.1.1 **RoadShieldAffix []** org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield::affxes

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

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

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

- [NavigationCoreTypes.fidl](#)

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

Public Attributes

- [RoadShieldAffixType affixType](#)
- [String affixContent](#)

2.24.1 Member Data Documentation

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

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

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

- [NavigationCoreTypes.fidl](#)

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

Public Attributes

- [UInt32 uValue](#)

2.25.1 Member Data Documentation

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

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

- [Routing.fidl](#)

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

Public Attributes

- [Double doubleValue](#)
- [IntermediatePoint\[\] intermediatePoints](#)
- [String stringValue](#)
- [UInt8\[\] linkId](#)
- [Int32 int32Value](#)
- [Int16 int16Value](#)
- [UInt32 uint32Value](#)
- [UInt16 uint16Value](#)

2.26.1 Member Data Documentation

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

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

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

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

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

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

2.26.1.7 UInt16 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::uint16Value

2.26.1.8 UInt32 org::genivi::navigation::navigationcore::Routing::RouteSegmentItem::uint32Value

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

- [Routing.fidl](#)

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

Classes

- struct [BlockedRouteElement](#)
- struct [ConditionPreference](#)
- struct [IntermediatePoint](#)
- struct [RoadPreference](#)
- union [RouteOverviewItem](#)
- union [RouteSegmentItem](#)
- union [WayPointItem](#)

Public Types

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

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

Public Member Functions

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

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

Public Attributes

- map_UnfulfilledRoutePreference [PreferenceMode](#) => [RoutePreferenceSource](#)
- map_RouteSchedule [Schedule](#) => UInt32
- map_RouteOverview [RouteOverviewType](#) => [RouteOverviewItem](#)
- map_WayPoint [WaypointElementType](#) => [WayPointItem](#)
- map_RouteSegment [RouteSegmentType](#) => [RouteSegmentItem](#)

2.27.1 Detailed Description

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

2.27.2 Member Enumeration Documentation

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

Enumerator

UNMATCHED_POSITION
UNREACHABLE_DESTINATION
UNFULFILLED_PREFERENCE_MODE

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

Enumerator

CALCULATION_OK
NO_POSITION

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

Enumerator

TRAFFIC_REALTIME

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

Enumerator

FASTEST
SHORTEST
ECOLOGICAL
SCENIC
EASY
OFF_ROAD
BALANCED
CHEAPEST

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

Enumerator

LATITUDE
LONGITUDE
ALTITUDE

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

Enumerator

PROHIBIT
AVOID
USE
PREFER
IGNORE

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

Enumerator

TOTAL_TIME
TOTAL_DISTANCE

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

Enumerator

FERRY
TOLL_ROADS
TUNNELS
HIGHWAYS_MOTORWAYS
VEHICLE_SIZE_LIMIT
CRIME.Areas

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

Enumerator

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

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

Enumerator

ARRIVAL_TIME
ARRIVAL_DATE
DEPARTURE_TIME
DEPARTURE_DATE

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

Enumerator

TIMESTAMP

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

Enumerator

BY_CAR
ON_FOOT
LONG_RANGE_TRAINS
PUBLIC_TRANSPORTATION
BY_BICYCLE
BY_TRUCK

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

Enumerator

LATITUDE

LONGITUDE

ALTITUDE

LOCATION_INPUT

WAYPOINT_TYPE

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

Enumerator

HARD_POINT

SOFT_POINT

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

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

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

#comment : calculateRoute = This method starts a route calculation

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

#comment : cancelRouteCalculation = This method cancels a route calculation

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

#comment : This method creates a route

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

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

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

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

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

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

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

#comment : This method retrieves the selected cost model

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#comment : This method sets the cost model

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

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

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

#comment : This method sets a list of route preferences

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

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

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

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

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

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

2.27.4 Member Data Documentation

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

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

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

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

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

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

- [Routing.fidl](#)

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

Public Member Functions

- void [routeDeleted](#) (in Handle routeHandle)
- void [routeCalculationCancelled](#) (in Handle routeHandle)
- void [routeCalculationSuccessful](#) (in Handle routeHandle, in UnfulfilledRoutePreference unfulfilledPreferences)
- void [routeCalculationFailed](#) (in Handle Handle, in CalculationError errorCode, in UnfulfilledRoutePreference unfulfilledPreferences)
- void [routeCalculationProgressUpdate](#) (in Handle routeHandle, in CalculationStatus status, in UInt8 percentage)
- void [alternativeRoutesAvailable](#) (in Handle routeHandlesList)

2.28.1 Member Function Documentation

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

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

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

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

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

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

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

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

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

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

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

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

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

- [Routing.fidl](#)

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

Public Member Functions

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

2.29.1 Detailed Description

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

2.29.2 Member Function Documentation

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

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

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

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

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

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

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

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

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

#comment : This method returns the API version .

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

- [Session.fidl](#)

2.30 org::genivi::navigation::navigationcore::Session_client Interface Reference**Public Member Functions**

- void [sessionDeleted](#) (in Handle sessionHandle)

2.30.1 Member Function Documentation**2.30.1.1 void org::genivi::navigation::navigationcore::Session_client::sessionDeleted (in Handle sessionHandle)**

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

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

- [Session.fidl](#)

2.31 org::genivi::navigation::navigationcore::Routing::WayPointItem Union Reference**Public Attributes**

- Double [coordinateValue](#)
- [WayPointType](#) [waypointValue](#)
- UInt8[] [metaData](#)

2.31.1 Member Data Documentation

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

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

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

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

- [Routing.fidl](#)

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

Public Attributes

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

2.32.1 Member Data Documentation

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

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

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

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

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

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

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

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

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

- [Guidance.fidl](#)

3 File Documentation

3.1 Configuration.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::Configuration](#)
- interface [org::genivi::navigation::navigationcore::Configuration_client](#)

Modules

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

3.2 Guidance.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::Guidance](#)
- union [org::genivi::navigation::navigationcore::Guidance::ManeuverDataValue](#)
- struct [org::genivi::navigation::navigationcore::Guidance::LaneInfo](#)
- struct [org::genivi::navigation::navigationcore::Guidance::WaypointStruct](#)
- struct [org::genivi::navigation::navigationcore::Guidance::ManeuverItem](#)
- struct [org::genivi::navigation::navigationcore::Guidance::Maneuver](#)
- interface [org::genivi::navigation::navigationcore::Guidance_client](#)

Modules

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

3.3 LocationInput.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::LocationInput](#)
- union [org::genivi::navigation::navigationcore::LocationInput::AddressValue](#)
- interface [org::genivi::navigation::navigationcore::LocationInput_client](#)

Modules

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

3.4 MapMatchedPosition.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::MapMatchedPosition](#)
- union [org::genivi::navigation::navigationcore::MapMatchedPosition::PositionItemValue](#)
- union [org::genivi::navigation::navigationcore::MapMatchedPosition::AddressItemValue](#)
- union [org::genivi::navigation::navigationcore::MapMatchedPosition::PositionOnSegmentValue](#)
- union [org::genivi::navigation::navigationcore::MapMatchedPosition::PositionStatusValue](#)
- interface [org::genivi::navigation::navigationcore::MapMatchedPosition_client](#)

Modules

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

3.5 NavigationCoreTypes.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::NavigationCoreTypes](#)
- struct [org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShieldAffix](#)
- struct [org::genivi::navigation::navigationcore::NavigationCoreTypes::RoadShield](#)

Modules

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

3.6 Routing.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::Routing](#)
- struct [org::genivi::navigation::navigationcore::Routing::RoadPreference](#)
- struct [org::genivi::navigation::navigationcore::Routing::ConditionPreference](#)
- struct [org::genivi::navigation::navigationcore::Routing::IntermediatePoint](#)
- union [org::genivi::navigation::navigationcore::Routing::RouteOverviewItem](#)
- union [org::genivi::navigation::navigationcore::Routing::WayPointItem](#)
- union [org::genivi::navigation::navigationcore::Routing::RouteSegmentItem](#)
- struct [org::genivi::navigation::navigationcore::Routing::BlockedRouteElement](#)
- interface [org::genivi::navigation::navigationcore::Routing_client](#)

Modules

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

3.7 Session.fidl File Reference

Classes

- interface [org::genivi::navigation::navigationcore::Session](#)
- interface [org::genivi::navigation::navigationcore::Session_client](#)

Modules

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

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