



NAVIGON AppInteract

How to hand over a geo position to NAVIGON MobileNavigator iPhone



January 2011



NAVIGON



A lot of iPhone apps deal with great content...





... only a few provide great navigation.





Now they can interact!

- NAVIGON provides a simple and easy-to-implement interface for Apps to interact with the MobileNavigator software.
- Just send a link to MobileNavigator and it will automatically launch and will provide navigation to the target destination.
- A brief technical description on this can be found on the following slides.



Coordinates only:

The combined syntax looks like:

```
navigon://coordinate / Any name / Longitude / Latitude  
navigon://coordinate / MyCoordinate / 9.929001 / 49.793999
```

Some examples:

```
navigon://coordinate/Apple Cupertino/-122.031906/37.330908  
navigon://coordinate/Some nice place/9.937156/49.800074  
navigon://coordinate/Another place/2.324621/48.881273
```



Detailed address:

The combined syntax looks like:

```
navigon://address / Field1 / Field2 / Field3 / Field4 / Field5 / Field6 / Field7 / Field8  
navigon://address / NameOfPOI / Country-FederalState / ZipCode / City / Street / HouseNumber / Longitude / Latitude
```

Some examples:

```
navigon://address/Navigon AG/DEU/97080/Würzburg/Berliner Platz/11  
navigon://address/Another place/FRA/75008/PARIS/rue de Turin/17/2.324621/48.881273  
navigon://address/Apple/USA-CA/95014/Cupertino/Infinite Loop/1/-122.031906/37.330908
```



Scheme name: navigon

Field1/NameOfPOI: Name of POI (e.g. Navigon AG Würzburg)

Field2/Country: ISO 3166-1 alpha-3 code for country (<http://unstats.un.org/unsd/methods/m49/m49alpha.htm>) (e.g. DEU)
-> Exception: for USA / CAN following scheme is needed: USA-(2-letter-state-abbreviation) (e.g. USA-CA, CAN-ON)

Field3/ZipCode: Postalcode, ZIP code of the POIs city (e.g. 97080)

Field4/City: Name of POIs city (e.g. Würzburg)

Field5/Street: POIs street name (e.g. Berliner Platz)

Field6/HouseNumber: POIs street/house number (e.g. 11)

Field7/Longitude: Longitude in WGS84 (e.g. 9.870) (optional)

Field8/Latitude: Latitude in WGS84 (e.g. 49.938) (optional)

In order to work properly, you have to escape every occurrence of „/“ with „%2F“
`field = [field stringByReplacingOccurrencesOfString:@"/" withString:@"%2F"];`



To pass it to the application as a valid URL, you have to percent escape the URL string.

Example:

```
escapedUrl = [url stringByAddingPercentEscapesUsingEncoding:NSUTF8StringEncoding];
```

->

```
navigon://address/Navigon AG/DEU/97080/WÜRZBURG/Berliner Platz/11
```

becomes

```
navigon://address/Navigon%20AG/DEU/97080/W%C3%9CRZBURG/Berliner%20Platz/11
```

Recommendations:

- For best address resolution you should provide the complete address data incl. house/streetnumber. Also add coordinates if available.
- If no or only some address data is available, please use the „coordinates only“ format.
- To check if the device has a NAVIGON app installed, try

```
BOOL navigonInstalled = [[UIApplication sharedApplication] canOpenURL:[NSURL URLWithString:escapedURL]];
```


Enjoy NAVIGON on the iPhone!



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