INTERACTIVE MOBILE INFORMATION SYSTEM

PRODUCT-INFORMATION

Know, where it’s at!
Know, where it’s at!

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Index

| System Description                          | 4 |
| System Structure                           | 5 |
| Requirements and Installation              | 6 |
| System Operation                           | 7 |
| Areas of Use                               | 8 |
| All CityGuide-Products                     | 10 |
| Contact and Information                    | 12 |
| References                                 | 14 |
System Description

CityGuide Mobile is a mobile navigation and information system without the need for a Global-Positioning-System-Unit. A simple example demonstrates how it is used:

A tourist from abroad is visiting Kaiserslautern on foot and spontaneously decides to have lunch in a restaurant serving Indian specialties. With CityGuide Mobile, (the application may be downloaded from the cities web pages or terminals free of charge) he just has to take his mobile phone and enter his own position and afterwards the street and house number or the first three letters of his desired destination.

As soon as the user has specified his destination, he will receive a set of directions in form of a text menu or alternatively in form of a map with start- and stop locations that are connected by instructions and waypoints.

Additionally, our visitor has the option to select a suitable routing grid for his route, such as one for pedestrians, for cyclists or accessible.

In contrast to other mobile information systems, CityGuide Mobile features several unique attributes, that guarantee a very high acceptance among users and a high quality in available content for the system:

**Platform Independence**
CityGuide Mobile runs on a large number of mobile devices that support Java MIDP1.0 or higher.

**Currentness of Information**
All downloaded data originates from centrally administrated servers of the city, thus the information is always official and up to date.

**Editorial Ownership**
The city itself decides what information to publish. Thus, it is possible to create customized solutions with existing resources.

**Expense Factor**
Use of the system carries only the costs that apply for a connection to the city servers. The mobile application itself and the calculation of routes are free!
System Structure

While active, **CityGuide Mobile** relays information over a dedicated server that accesses data from each of the cities and/or institutions internet-servers in order to make the desired maps and data available to the requesting users.

Exemplary chart of a **CityGuide Mobile** installation...

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Requirements and Installation

To ensure flawless operation of CityGuide Mobile it is recommended to meet the following requirements on the mobile device:

- ✓ 512 KB Data Memory
- ✓ 1024 KB Program Memory
- ✓ Display with at least 256 Colors
- ✓ Display with no less than 140 x 140 Pixel Screen Resolution
- ✓ MIDP 1.0 or higher
- ✓ CLDC 1.0 or higher
- ✓ Support for Socket Protocols
- ✓ Internet Service via GPRS, Wi-Fi or local Network

Installation

The installation consists only of the correct setup of the program-file itself, which currently takes about 80 KB of memory. The software maybe installed in one of three possible ways:

Via OTA (Over the air)
The user opens a certain URL from the WAP-Services menu and is able to download and install the program directly from that location.

Over a PC-connection
The program is copied directly to the mobile device by means of an infrared-connection, Bluetooth, a synchronization software or a serial cable. Quite often, the program is received as a SMS that has to be opened.

From a Memory Card
Some mobile devices support memory cards. The programm can be pre-installed on a memory card and then inserted into the device.
System Operation

The big advantage of a mobile information system such as CityGuide Mobile is of course the ability to make use of a city’s infrastructure on demand from any location, without any further need for information material, meaning complete independence from time and location. In addition to that the system may be used in several different languages.

After starting the program, a list of available Versions of CityGuide Mobile is presented on the screen.

An Internet connection to a server will be initiated once a selection has been made. The list of available versions may vary depending on the application of the software.

After a connection to the internet has been established, the user can select an available language for the system. Once the language has been selected, the main menu of the CityGuide Mobile application is shown.

A user starts by giving the application his current location. This is done via keyboard entry or via the function keys of the mobile device.

Following this, a destination is selected in the same way.

As soon as the user has specified his destination, he will receive a set of directions in form of a text menu or alternatively in form of a map with start- and stop locations that are connected by instructions and waypoints. While on the way, it is possible to infinitely switch back and forth between the individual waypoints of a route.
Many visitors from abroad, who will be moving around the city mostly on foot, are expected to attend the FIFA Soccer Worldcup 2006™ in Germany. These visitors want to be able to enjoy everything the city has to offer at all times and with greatest ease.

With CityGuide Mobile, there is an ideal application available that is compatible with most of the current mobile devices on the market. A simple example demonstrates how it is used:

A tourist from abroad is visiting Kaiserslautern on foot and spontaneously decides to have lunch in a restaurant serving Indian specialties. With CityGuide Mobile, (the application may be downloaded from the cities web pages or terminals free of charge) he just has to take his mobile phone and enter his own position and afterwards the street and house number or the first three letters of his desired destination.

As soon as the user has specified his destination, he will receive a set of directions in form of a text menu or alternatively in form of a map with start- and stop locations that are connected by instructions and waypoints.

The system itself is highly quality and customer oriented and very flexible in the way users can interact with a city’s infrastructure.

Separating all data from the application enables CityGuide Mobile to be adapted to any environment - be it a pedestrian navigation system or a navigation system for a certain occasion, such as a sports event or trade fair.
CityGuide Mobile
a Trade Fair Navigation System

CityGuide Mobile may just as easily be used as a navigation system for the trade fair grounds or an exhibition. Maps of the city are simply exchanged with maps of the fair grounds or exhibition halls.

The conceptual approach of CityGuide-products may be summarized as a most versatile application through cross platform operation of all products. This concept will help our products reach a maximum number of users.

While navigating, CityGuide Mobile uses only a small amount of data to function. All maps and content is transferred compressed over a simple GPRS-Connection. As a result of that, users do not have to expect large costs in connection with the software.

This innovative solution is completed with the CityGuide DMS product line, which offers equally convenient functionality on the official Catalog-CDROM and on the Internet at www.intergeo.de.

Characteristics

Platform Independence through Java Technology
The conceptual approach of CityGuide-products may be summarized as a most versatile application through cross platform operation of all products. This concept will help our products reach a maximum number of users.

Low Expense Factor through small Data Transfers
While navigating, CityGuide Mobile uses only a small amount of data to function. All maps and content is transferred compressed over a simple GPRS-Connection. As a result of that, users do not have to expect large costs in connection with the software.

Currentness of Information through Centrally Stored Data
While downloading, the application accesses the information that is provided by several different institutions. Whenever a change is made to the information on a given network, it is immediately available to CityGuide Mobile.

Editorial Ownership
The city or the trade fair management decide themselves what information (taxonomies, points of interest, etc.) is published and are thus able to make a customized version available that will perfect for a certain occasion.
All CityGuide-Products...

You are interested in CityGuide Mobile? Why not take a look at the full range of our CityGuide-products.

We can offer you a very distinguished selection of products for almost every aspect of the application of your maps and data. Meeting your individual expectations is our strength...

CityGuide DMS is an interactive geographical information system that will help you publish your maps and data very conveniently over the Internet, Intranet or on CDROM and DVD.

More information can be found online at: http://cityguide-dms.com

CityGuide 3D expands your maps and data with a third dimension. This will give you the ability to look at three dimensional terrain models including buildings and daylight lighting effects.

The sources for calculations are your maps, a digital altitude model and data for 3D-objects.

Anticipated availability is spring 2006.

More information can be found online at: http://cityguide-3D.com
**CityGuide Mobile** is a pedestrian navigation system for mobile units such as Java enabled mobile phones and handheld-computers.

**CityGuide Mobile** enables people to use the infrastructure of a city more efficiently by offering the entire spectrum of activities and events at the click of a button.

More information can be found online at: http://cityguide-mobile.com

**CityGuide MicroEdition** is the mobile GIS-version of CityGuide DMS and offers a selection from different source maps, full-text database search for objects and addresses on top of the routing function of CityGuide mobile.

More information can be found online at: http://cityguide-microedition.com

**CityGuide ServerEdition** is the server-application, which makes it possible for mobile devices to access maps and data via a standard Internet- or Bluetooth-Connection.

CityGuide Server is currently being used by CityGuide Mobile and CityGuide MicroEdition.
CityGuide Mobile is winner of the 2004 “Media in Motion” Award, which was endowed with the sum of 100,000 Euros by the federal state of Rhineland-Palatine.

The pedestrian navigation system was designed in coproduction with the DFKI and the city of Kaiserslautern. It will premiere as the official trade fair navigation system at the Intergeo 2005 in Düsseldorf.
Contact

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...on the World Wide Web:  http://cityguide-mobile.com
                          http://cityguide-europa.com
                          http://cityguide-global.com

For more questions and additional information please contact our online support at support@webnologic.com.

Suddenly navigation is as easy as another phone call...
Partners of CityGuide Products

On this page we proudly present a list of our partners for CityGuide DMS and CityGuide Mobile. We want to thank everybody for their trust and teamwork during the completion of their individual project.

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<tr>
<th>City of Baden Baden</th>
<th>City of Celle</th>
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<th>City of Flensburg</th>
<th>City of Freiburg</th>
<th>City of Hameln</th>
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<td>The state capital of Baden-Württemberg Stuttgart</td>
<td>The capital of Sicily Palermo</td>
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