gvSIG Mobile: gvSIG goes Mobile

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Agenda

- Introduction
- Description
- New functionalities
- Conclusion
- Demo

Introduction

Company profile

- Spanisn company (Valencia)
- 15 years of GIS experience
- More than 50 employees
- Member of gvSIG developer team
- High focus on FOSS4G
  - 2007-FOSS4G.Victoria, (Canada)
  - 2008- FOSS$G. Cape Town. South Africa

Introduction

gvSIG Mobile

- Framework of gvSIG project
- License: GPU/GPL
- Developed in JAVA ME.
- Prototype 0.1: First mobile JAVA open source GIS client
- Prototype 0.2: It comes soon!!
- Developed by: Prodevelop, Robotics Institute UPV, IVER

Description

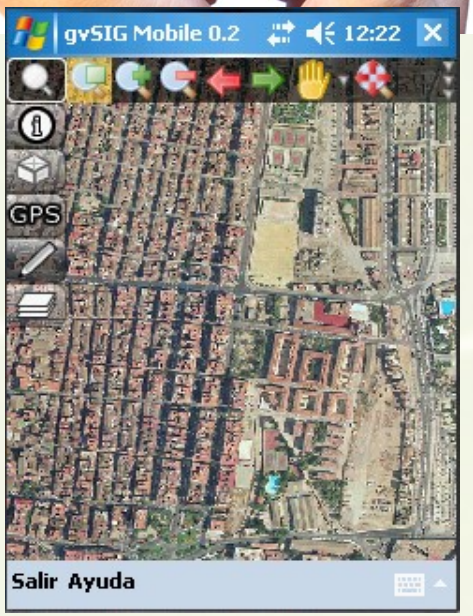
Details

- **Operative System:** Windows Mobile (W.M 0.5 and 0.6)
- **JVM:** J9 IBM, PhoneMe
- **Devices:**
  - **Present:**
    - PDAs and smartphones
  - **Future:**
    - Tablet Pcs and cellphones

Description

Prototype 0.1

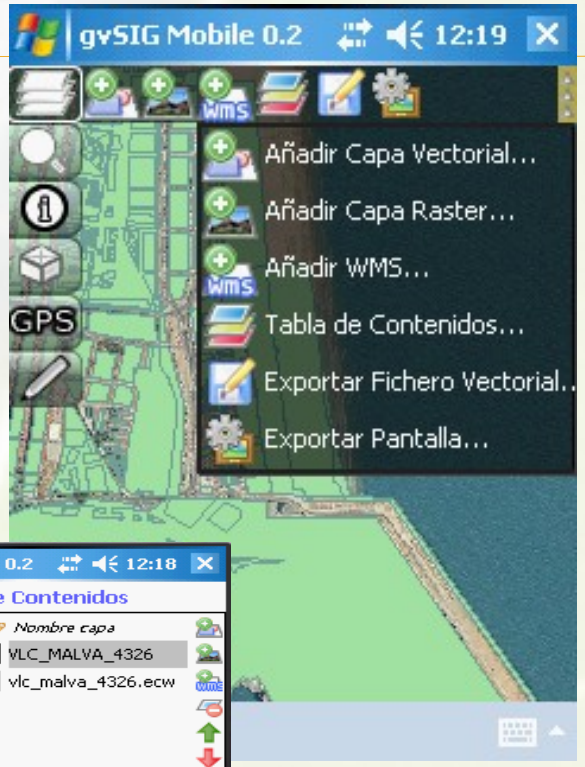
- **Project Management**
  - New/open
  - Save as
  - Properties
- **Navegation**
  - Zooms
  - Manual Pan



Description

Prototype 0.1

- **Add Data**
  - Shape files
  - ECW,JPEG,PNG
  - Remote services: **WMS**
- **Layer Management (TOC)**
  - Symbology
  - Export screenshots

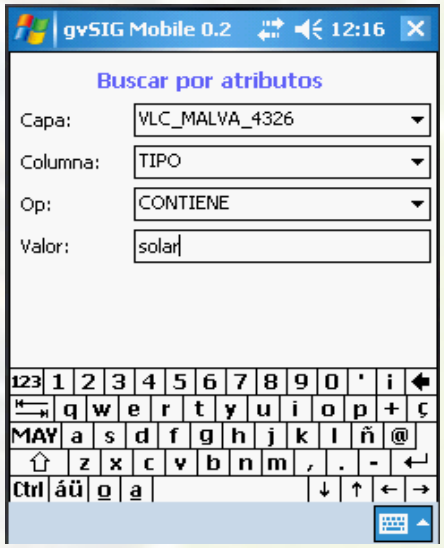


Description

Prototype 0.1

Query data

- Selection by attribute
- Object selection (by point or boundary box)
- Measures (distance,area,coordinates)

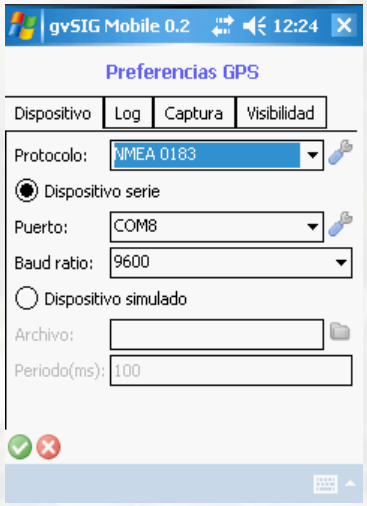


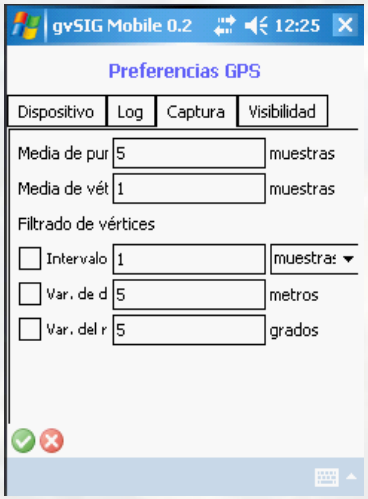
Description

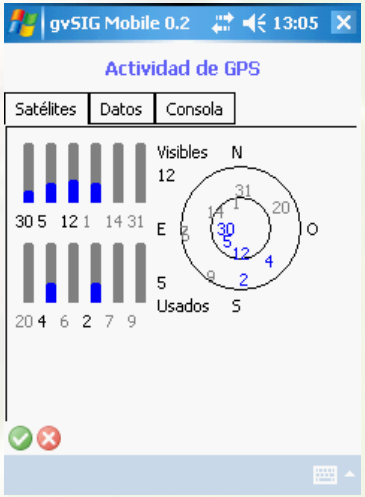
Prototype 0.1

GPS Support

- **NMEA0183** Protocol
- Satellite Data
- Generation of waypoints and tracklogs **(GPX, CSV)**
- GPS Simulation





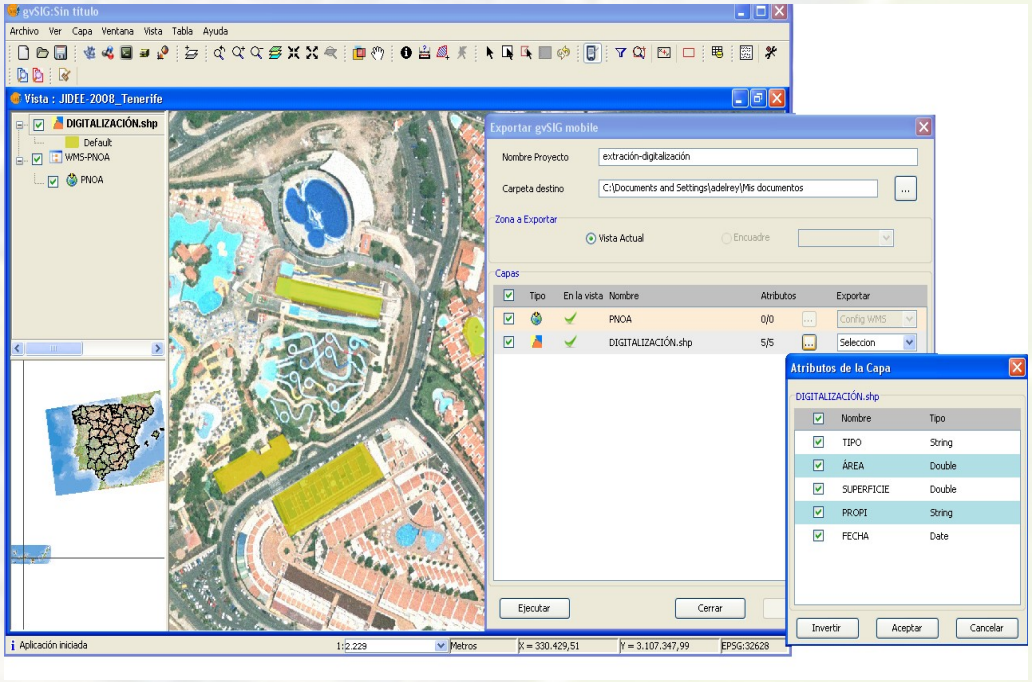


Description

Prototype 0.1

Data Integration

- gvSIG extension to export data to the PDA

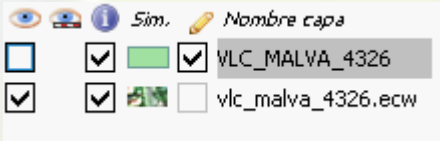


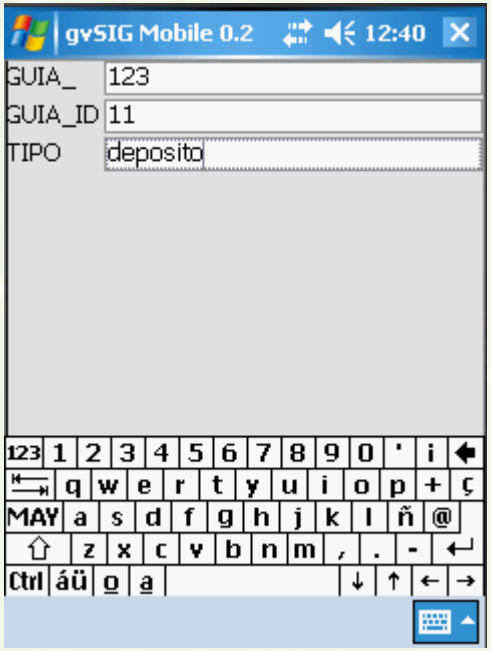
Description

Prototype 0.2

Editing of data

- Graphic and alphanumeric data

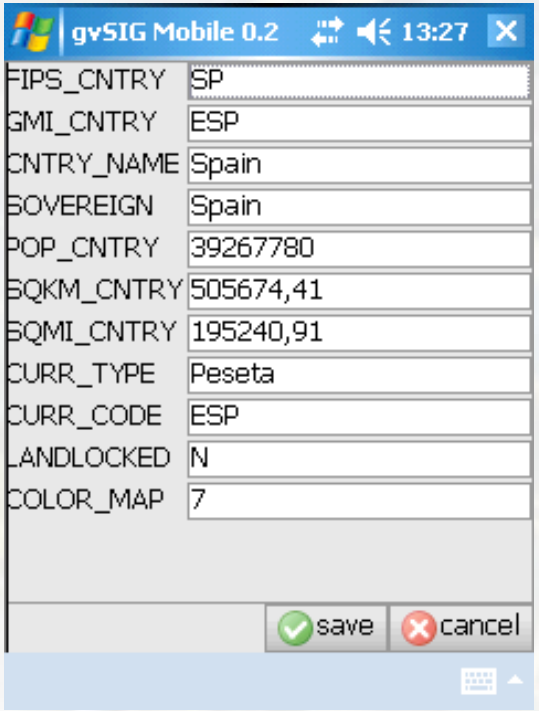




Description

Prototype 0.2

Use of custom forms : XML files



Description

Prototype 0.2

- **New formats available : GML, GPX and KML**

- **PhoneME Support: (open source JVM for PDAs)**
  - It is also compatible with IBM J9

New functionalities

Road Map

gvSIG Mobile will offer:

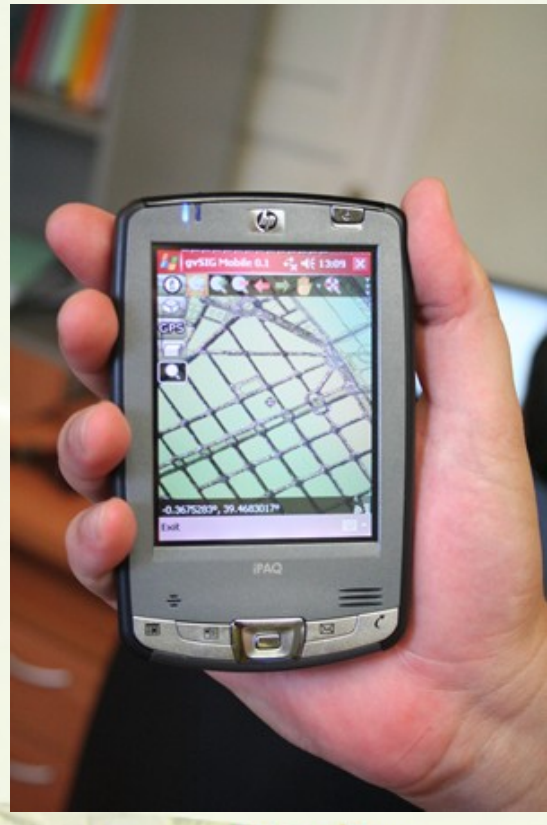
- Vectorial support : DWG,DGN,....
- Raster support : GeoTIFF,MrSID,...
- Acces to OGC services:
  - WMC,WFS
  - WCS,WFS-T, CSW
- Acces to standar services:
  - ECWP
  - ArcIMS
- Advanced symbology
- Advanced editing of vectorial data

New functionalities

Road Map

gvSIG Mobile will offer:

- Direct connection with Spatial Data Base:
  - PostGIS
  - Oracle Locator
  - MySQL
- Geosynchronization **(WFS-T)**
- Navegation: POIs, Alerts and so on.
- Integration with OpenStreetMaps
- GNSS Support: DGPS or NTRIP
- Sensor functionality



Conclusion

- **Useful tool for edition/visualization of data "in situ"**
- **Mobile client of Spatial Data Infrastructures (SDI)**
- **Application sectors:**
  - Urban Planning
  - Infrastructures Management
  - Fire Detection and Prevention
- **Download:** http://www.gvsig.gva.es

Demo

Thank you very much for your attention!

Questions and comments

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