New functionalities in gvSIG Mobile 1.0

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Introduction

• gvSIG Mobile is a GIS for mobile devices
• Last version is 0.3
• It's developed in Java (J2ME CDC PP)
• Can handle WMS, GML, KML, GPX, SHP, ECW
• Editing of vector geometries and attributes
• Connects with any GPS to allow GPS aided editing
• Custom forms support
gvSIG desktop core

- gvSIG 2.0 and gvSIG Mobile 1.0 share the main mapping libraries and APIs
- Now it's easier to port a gvSIG desktop plugin to gvSIG mobile
- gvSIG Mobile evolution is assured
OSGI Based extensibility

- Now it's easy to add functionality to gvSIG Mobile
- SRS are also pluggable
- In the future will be a repository browsable from gvSIG Mobile
- Tested on Knopplerfish
Everything is multithreaded

- Every tool is executed on a thread distinct to the GUI thread
- Slow actions do not block the application
- Thread pool to avoid thread creation time and to limit the number of threads
New UI Framework

- GUI based on LWUIT
- Lightweight
- Final aspect does not depend on the VM
- Color picker
- Tree file browser
- Tabbed pane
- ...
libLocation

- New location library
- Allows new devices to be added as plugins
- Personal database with routes, tracklogs and POIS
- Vertex averaging and filtering
- Usable in other projects
Styles

- Range
- Unique value
- Labeling
  - Several fonts
  - Rotation
  - Performance
  - Hershey fonts
Editing

- Create, delete and edit features
- Create ellipses, circles, rectangles, lines, linestrings, polygons and points
- Copy, rotate, scale, translate
- Undo, redo
New SRS support

- New SRS system
- Pure Java
- Extendable
- Based on Java Map Projection Library (proj4 port)
WFS

- New support for OGC vector WFS services
- Soon (hopefully) WFS-T
Current issues

• This alpha version is slower than version 0.3
• Probably we are including some unnecessary bundles with the application
• The libLocation functionality is ready but not completely integrated on the application
• The usability of new editing tools is not very good
• We have to solve those issues before publishing the beta
Roadmap

- Improve performance
- Solve some bugs
- Improve editing tools usability
- Finish the libLocation integration
- Create installable packages
- Publish a beta version
- Publish the 1.0 (this year)
- WFS-T, Bundles repository
Conclusions

• The wait has been long but the big refactoring is almost done, gvSIG Mobile 1.0 is coming

• The new functionalities are the most demanded and gvSIG Mobile is becoming a good alternative to privative software

• This version has been done with the developers in mind. So please join us and hack gvSIG Mobile
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