

GPS Solution for Android



Highlights

- Allows easy integration of GPS functionality in Android-based products
- Royalty-free GPS library, licensed for reuse in customer products
- GPS evaluation and visualization app

u-blox Android solution includes

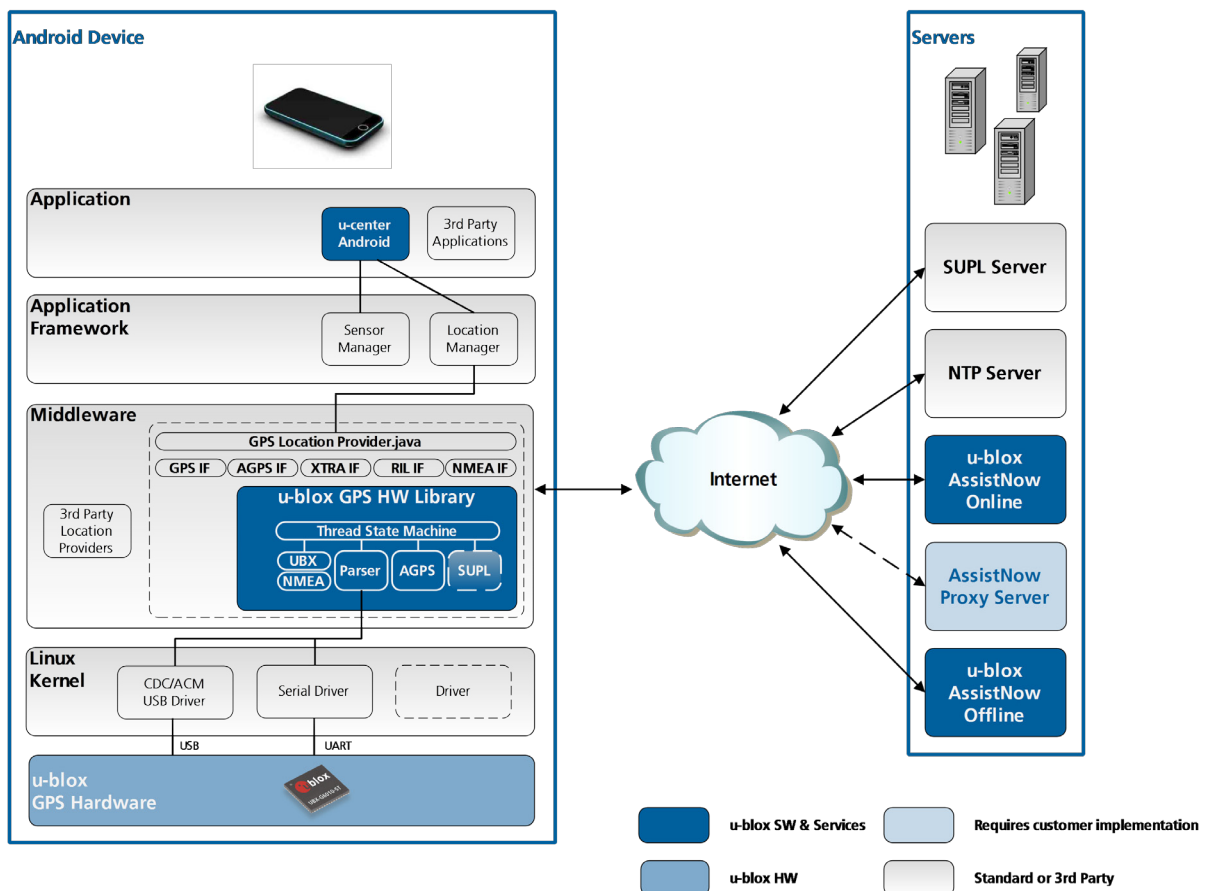
- GPS driver library
- u-center Android GPS evaluation App
- Documentation explaining implementation

Solution description

u-blox' GPS Android solution enables customers to easily integrate and evaluate GPS functionality in their Android-based end products. The solution includes A-GPS capabilities for high performance GPS as well as Terminal and Network based positioning on mobile operator networks.

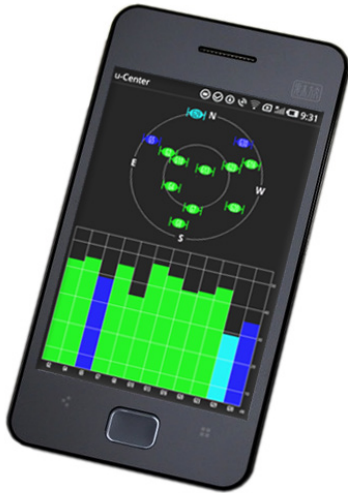
u-blox Android GPS Solution is available free of charge. The royalty-free GPS hardware driver library is licensed for reuse in customer products and available upon request.

Framework



u-center Android GPS evaluation App

The u-blox Android Solution includes u-center Android, a specially modified Android version of u-blox' powerful GPS evaluation tool. u-center Android enables the visualization of location data and GPS status published by the Android framework.



Messages and GPS information

u-center Android allows you to check the NMEA messages from the receiver and the basic information of each satellite (e.g. azimuth, elevation, status).

```
u-Center
15:38:38 $GPGSV,3,2,10,12,60,0
15:38:38 $GPGSV,3,3,10,29,49,2
15:38:38 $GPGSA,,02,04,12,,,,,
15:38:39 $GPGGA,153839.000,4
15:38:39 $GPGLL,4717.11444,N
15:38:39 $GPRMC,153839.000,A
15:38:39 $GPVTG,,T,,M,0.113,N,
15:38:39 $GPGSV,3,1,10,01,64,0
15:38:39 $GPGSV,3,2,10,12,60,0
15:38:39 $GPGSV,3,3,10,29,49,2
15:38:39 $GPGSA,,02,04,12,,,,,
15:38:40 $GPGGA,153840.000,4
15:38:40 $GPGLL,4717.11432,N
15:38:40 $GPRMC,153840.000,A
15:38:40 $GPVTG,,T,,M,0.685,N,
15:38:40 $GPGSV,3,1,10,01,64,0
15:38:40 $GPGSV,3,2,10,12,60,0
15:38:40 $GPGSV,3,3,10,29,49,2
15:38:40 $GPGSA,,02,04,12,,,,,
15:38:40 $GPGGA,153840.000,4
15:38:40 $GPGLL,4717.11432,N
prn=9, cno=-1.0dBHz, az=20
prn=15, cno=-1.0dBHz, az=2
prn=17, cno=-1.0dBHz, az=1
prn=18, cno=-1.0dBHz, az=3
prn=26, cno=-1.0dBHz, az=1
prn=27, cno=-1.0dBHz, az=2
prn=28, cno=-1.0dBHz, az=6
onGpsStatusChanged
status=4-GPS_EVENT_SATEL
time=06/20/2011 15:05:49.0
latitude=47.285530°
longitude=8.565217°
altitude=399.30m
accuracy=36.00m
bearing=29.2°
speed=2.1m/s
maxsvs=255
ttff=0.000s
prn=5, cno=-1.0dBHz, az=10
```

Ordering information

For further details and to obtain u-blox' GPS Driver Library, please contact the u-blox sales representative nearest you. To download u-center Android visit our website or the Android Market: <http://market.android.com/details?id=com.ublox.ucenter>.

For mobiles with a QR scanner, scan the adjacent QR code by focusing on it with the device's camera.



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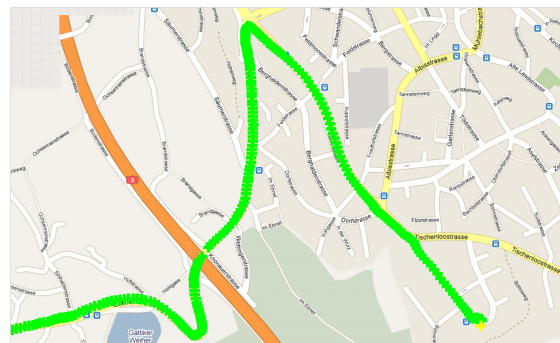
Testing and analysis

Cockpit type instruments, a wide range of tabular and graphical viewing tools as well as statistics functions are available to make testing and analysis easy. Features include visualization of all visible GPS satellites including signal strength and position, heading, altitude, velocity and GPS time-of-day.



Visualization

u-center Android allows you to visualize GPS traces on top of picture files of maps of any scale. A quick look at a trace on a map reveals a lot about the GPS receiver's performance. This feature is only available with devices supporting Google Maps.



Supported Products

Solution supports all USB/UART based u-blox 5/6 GPS receivers.

System requirements

u-center Android supports Android versions 2.1 to 4.0.

GPS Driver Library supports Android versions 2.3 to 4.0.

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