Create Offline Map With Mobac

This page is obsolete and will be reworked soon

Basic information

MOBAC (Mobile Atlas Creator) is software that allows to obtain data from online map servers and transform these data to offline atlases.

How to

- Download and install MOBAC
- Run MOBAC and choose **RMaps SQLite** format



- Select map, zoom levels and areas you want to download



- Create Atlas



- Mobac creates SQLite DB file (offline atlas) in location: `mobac_folder/atlases`
- Copy created file to the folder `Locus/maps` on your device
- Start Locus
- Locus automatically imports new SQLite DB file. Go to Main Menu > Map Manager > Personal tab and select new map



<html>
</html> Note: for more information see Locus forum

Create Maps on PC with "Mobile Atlas

Creator"

Basic information

Author: brotbuexe (sven)

Forumlink: http://forum.locusmap.eu/viewtopic.php?f=44&t=1896

Locus version (min): 2.3.0

Created: 2012/05/07

Introduction

You can use Mobac to download map tiles and create whole maps for just layer maps for offline use on locus. Layer maps you could use to overlay data on another map, for example Hiking paths, or public transport routes.

You can do this on your PC, you don't have to use your phone. Its Java so it runs on a lot of platforms.

website: http://mobac.sourceforge.net

some basics: http://mobac.sourceforge.net/quickstart/index.htm

For Locus you should use “RMaps SQLite” as output format.

MOBAC comes with some providers, like Locus. But you can use a lot of custom providers. Like the layers from the maps forum.

Mobac caches the Tiles in its own Databases (see tilestore directory in mobac folder) named by the <name> Tag you use. You can, if you use the same <name> tag also create multilayer maps with that maps without to have to reload already downloaded tiles.

Custom maps provider configuration for tileservers are a lot like they are configured in Locus.

Documentation of the Custom Provider Format:
http://sourceforge.net/apps/mediawiki/mobac/index.php?title=Custom_XML_Map_Sources

Howto create custom Mapsources for MOBAC from your Locus providers.xml

1. Get the providers.xml from Locus (after you used the Locus addon “Locus Map Tweaker” available in Google Play Store). It is located in /sdcard/locus/mapsOnline/custom.

2. Open it in Notepad.

3. Search for the Provider you want to use in MOBAC.

Example:

```
  ...
     <provider id="10021" type="0" visible="true" background="-1">
        <name>Google</name>
        <mode>Satellite</mode>
        <area></area>
<url><![CDATA[http://khm0.google.com/kh/v=83&hl=en&x={x}&y={y}&z={z}]]></url
>
        <zoomPart>{z}-8</zoomPart>
        <zoomMin>8</zoomMin>
        <zoomMax>28</zoomMax>
        <tileSize>256</tileSize>
     </provider>
  ...
```

4. Create a new File <Providername>.xml in MobacProgramdir\mapsources

If Mobac located in c:\mobac, the File should be c:\mobac\mapsources\googlesat.xml

Add this template to the new File:

```
  <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <customMapSource>
     <name>PROVIDERNAME</name>
     <maxZoom>18</maxZoom>
     <tileType>PNG</tileType>
     <tileUpdate>None</tileUpdate>
     <url>PROVIDERURL</url>
  </customMapSource>
```

PROVIDERNAME = The Name of the Provider (should not be already used) PROVIDERURL = the string from the <url> Tag from the providers.xml

Inside the url, Locus uses variables like {x}, they have to be changed to {$x}. Just add the $.

The file in the example should be:

```
  <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <customMapSource>
     <name>Google Satelitte</name>
     <maxZoom>18</maxZoom>
     <tileType>PNG</tileType>
     <tileUpdate>None</tileUpdate>
<url><![CDATA[http://khm0.google.com/kh/v=83&hl=en&x={$x}&y={$y}&z={$z}]]></
url>
  </customMapSource>
```

When you open Mobac you should be able to select the new MapProvider from the list on the top left.

This should be done for every simple Map Provider. Some Providers with multiple layers are a bit complicated. Some that don't use the simple Tileserverstructure could be not working.

If you have a {s} in the url, this is for load balancing. Inside the <provider> tag in the providers.xml there should also be a <serverpart> tag. Just copy this to the custom provider.xml.

Now: Change {s} to {$serverpart} Change <serverPart> to <serverParts> Change </serverPart> to </serverParts> Change the ; inside the <serverparts> tag to a space.

Example from providers.xml:

```
     <provider id="10020" type="0" visible="true" background="-1">
        <name>Google</name>
        <mode>Classic</mode>
        <area></area>
<url><![CDATA[http://mt{s}.google.com/vt/lyrs=m@140&hl=en&x={x}&y={y}&z={z}]
]></url>
        <serverPart>0;1</serverPart>
        <zoomPart>{z}-8</zoomPart>
        <zoomMin>8</zoomMin>
        <zoomMax>27</zoomMax>
        <tileSize>256</tileSize>
        <attribution><![CDATA[(c)2011 Google - Map data (c)2011 Tele
Atlas]]></attribution>
        <extraHeader><![CDATA[User-Agent#Mozilla/5.0 (Windows NT 6.1; WOW64;
rv:7.0.1) Gecko/20100101 Firefox/7.0.1]]></extraHeader>
<extraHeader><![CDATA[Referer#http://maps.google.com/]]></extraHeader>
     </provider>
```

The xml:

```
  <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
  <customMapSource>
     <name>Google Classic</name>
     <maxZoom>18</maxZoom>
     <tileType>PNG</tileType>
     <tileUpdate>None</tileUpdate>
<url><![CDATA[http://mt{$serverpart}.google.com/vt/lyrs=m@140&hl=en&x={$x}&y
={$y}&z={$z}]]></url>
     <serverParts>0 1</serverParts>
  </customMapSource>
```

Now the last thing. If you want, you could set the correct maxZoom. Just get the maxZoom from the Locus Provider, use the <zoomPart> to calculate the correct value and set it in the CustomMapsource. For the last example, this would be 27-8 = 19. So you should be set <maxZoom> to 19 instead of 18.

For a complete documentation of the Custom Map Source format:

If you have problems feel free to post in this thread:
http://forum.asamm.cz/viewtopic.php?f=44&t=1896

But still, you should not download too much tiles. Its possible that MOBAC is already blocked, or it could be for you and other users too if you batchdownloading 100k tiles...

Create a Layermap for Locus

To create simple layer map, use a custom map source like:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<customMapSource>
   <name>Cycleroutes Overlay</name>
   <maxZoom>18</maxZoom>
   <tileType>PNG</tileType>
   <tileUpdate>None</tileUpdate>
   <url>http://tile.lonvia.de/cycling/{$z}/{$x}/{$y}.png</url>
</customMapSource>
```

This will create transparent maps that only have Cycling routes.

If you download layers like cycleroutes, you would get download errors because of the fact that tiles that don't have anything to show (no route on them) didn't exist. Just mark the “Ignore download errors” in the atlas creation dialog when you started the creation...

Example of a Multilayer Map

A Cyclemap with hillshade integrated

Code: Select all

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<customMultiLayerMapSource>
    <name>Cyclemap with double Hills and contours (Ger)</name>
    <tileType>PNG</tileType>
    <layers>
        <customMapSource>
            <name>OSM Cycle Map</name>
            <minZoom>0</minZoom>
            <maxZoom>18</maxZoom>
            <tileType>PNG</tileType>
            <tileUpdate>None</tileUpdate>
<url>http://a.tile.opencyclemap.org/cycle/{$z}/{$x}/{$y}.png</url>
            <backgroundColor>#000000</backgroundColor>
        </customMapSource>
        <customMapSource>
            <name>HikebikemapRelief</name>
```

```
              <minZoom>0</minZoom>
              <maxZoom>18</maxZoom>
              <tileType>PNG</tileType>
              <tileUpdate>None</tileUpdate>
<url>http://toolserver.org/~cmarqu/hill/{$z}/{$x}/{$y}.png</url>
          </customMapSource>
      </layers>
  </customMultiLayerMapSource>
```

Splitting Sqlitedb

Basic information

Author: brotbuexe

Forumlink: http://forum.locusmap.eu/viewtopic.php?f=43&t=2372&p=16249#p15964

How to

You could use this sqlite in mobac again and create smaller files from this source, for example split by zoom levels.

When you put them in one folder locus will use them as one map.

If one zoom level is still too big you could try to recompress the tiles for this zoom level inside mobac.

```
<?xml version="1.0" encoding="UTF-8"?>

<!--
Example custom map definition that uses an existing SQLite based atlas.
Supported atlas formats are RMaps, MBTiles, BigPlanetTracks, NaviComputer
and OSMAND.
Not supported are: OruxMaps and Osmdroid
-->

<localTileSQLite>
    <!-- Map source name as it appears in the map sources list. -->
    <name>Custom SQLite atlas</name>
    <!-- File path to SQLite atlas file -->
    <sourceFile>D:\MOBAC\LocalTiles\Region.Mapnik.sqlitedb</sourceFile>
    <!-- The atlas type has to be specified manually
    Possible values: RMaps, MBTiles, BigPlanetTracks, NaviComputer or OSMAND
    Not that this field is case sensitive! -->
```

```
    <atlasType>OSMAND</atlasType>
    <backgroundColor>#000000</backgroundColor>
    <!-- optional: Specify the image type: PNG JPG or GIF (supported since
MOBAC 1.9.1)
    By default this value is detected automatically if not specified. -->

    <!-- <tileImageType>PNG</tileImageType> -->
</localTileSQLite>
```

From:
http://docs.locusmap.eu/ - **Locus Map Classic - knowledge base**

Permanent link:
http://docs.locusmap.eu/doku.php?id=manual:advanced:map_tools:mobac&rev=1431664071

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