

## Application: gvSIG desktop - gvSIG bugs #2739

### Conversion between EPSG:3857 and EPSG:4326 doesn't match

07/29/2014 05:46 AM - Antonio Falciano

<b>Status:</b>	Closed	<b>% Done:</b>	0%
<b>Priority:</b>	Normal	<b>Spent time:</b>	0.00 hour
<b>Assignee:</b>	Joaquín del Cerro Murciano		
<b>Category:</b>	CRS		
<b>Target version:</b>	2.3.0-2416 (rev. org.gvsig.desktop-2.0.122)		
<b>Severity:</b>	Major	<b>Add-on version:</b>	
<b>gvSIG version:</b>	2.1.0	<b>Add-on build:</b>	
<b>gvSIG build:</b>	2239	<b>Add-on resolve version:</b>	
<b>Operative System:</b>		<b>Add-on resolve build:</b>	
<b>Keywords:</b>	3857, web_mercator, proj4	<b>Proyecto:</b>	
<b>Has patch:</b>		<b>Hito:</b>	
<b>Add-on name:</b>	Unknown		

#### Description

Steps in order to reproduce the issue:

- create a view and set its CRS as EPSG:3857;
- add an OSM layer (e.g. Mapnik) to the view;
- add an administrative boundaries layer defined in EPSG:4326.

Result: there's a quite consistent shift between the OSM layer and the boundaries one along the North direction (see the screenshot in attachment).

See also #2738.

#### Related issues:

Related to Application: gvSIG desktop - gvSIG bugs # 2738: EPSG:3857 Proj4 re...	<b>Closed</b>	<b>07/29/2014</b>
Related to Application: gvSIG desktop - gvSIG bugs # 2793: WMTS en 3857 no se...	<b>Closed</b>	<b>08/19/2014</b>
Related to Application: gvSIG desktop - gvSIG feature requests # 2864: Update...	<b>Closed</b>	<b>10/10/2014</b>
Related to Application: gvSIG desktop - gvSIG bugs # 2526: CRS management wit...	<b>New</b>	<b>05/18/2014</b>

#### History

##### #1 - 07/29/2014 06:04 AM - Álvaro Anguix

- Related to gvSIG bugs #2738: EPSG:3857 Proj4 representation is not correct added

##### #2 - 07/29/2014 06:04 AM - Álvaro Anguix

- Assignee set to Joaquín del Cerro Murciano

##### #3 - 08/20/2014 02:58 AM - Álvaro Anguix

- Related to gvSIG bugs #2793: WMTS en 3857 no se carga added

##### #4 - 10/13/2014 07:14 AM - Álvaro Anguix

- Related to gvSIG feature requests #2864: Update the GDAL library added

##### #5 - 03/10/2015 11:40 AM - Álvaro Anguix

- Related to gvSIG bugs #2526: CRS management with OSM layers added

##### #6 - 01/20/2016 01:42 PM - Álvaro Anguix

- Target version set to 2.3.0-2416 (rev. org.gvsig.desktop-2.0.122)

- Status changed from New to Closed

It works now (2415)

**#7 - 01/20/2016 04:30 PM - Antonio Falciano**

- Target version changed from 2.3.0-2416 (rev. org.gvsig.desktop-2.0.122) to 2.3.0-2447-final (rev. org.gvsig.desktop-2.0.153)
- Status changed from Closed to New

I've just tried with build 2415 on win64 and the issue persists. Because raster layers can't be loaded yet in win (#4013 and #3848), I've replace the above mentioned layer with shape defined in EPSG:3857 and the shift between the two layers is always there.

**#8 - 01/20/2016 05:33 PM - Álvaro Anguix**

- File 3857\_4326.png added

In my case (2415 in Lin64) it works fine (Image attached)  
Before I had the same problem that you.

**#9 - 01/20/2016 05:39 PM - Antonio Falciano**

Wonderful! Maybe the issue depends by the specific version of GDAL/OGR libraries used in Linux and win. There's no other explanation.

**#10 - 01/22/2016 05:10 PM - Antonio Falciano**

- Status changed from New to Closed

Applying the fixes provided in #4033 and #4042 in build 2415 (win x86 and x86\_64), an EPSG:4326 vector layer and an EPSG:3857 one (e.g. Mapnik) match fine this time.

**#11 - 01/25/2016 10:31 AM - Joaquín del Cerro Murciano**

- Target version changed from 2.3.0-2447-final (rev. org.gvsig.desktop-2.0.153) to 2.3.0-2416 (rev. org.gvsig.desktop-2.0.122)

**Files**

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3857_shift.png	191 KB	07/29/2014	Antonio Falciano
3857_4326.png	179 KB	01/20/2016	Álvaro Anguix