# QGIS Application - Bug report #4343 Shapefile, created in Qgis, encoding not recognized by Esri ArcGIS 10

2011-10-03 01:41 AM - vvj -

UTF-8 encoding Temporary work correct encoding Attached are two - test_utf - ori - test_utf_lo -	a still not recognized. around: open .dbf with LibreOffice Calc (encodi g name ("UTF-8") in it. After these steps, shapefi o sample shapefiles: ginal QuantumGIS shapefile with manually crea shapefile .dbf was modified with LibreOffice Ca eenshot with actual and detected encoding sam	ile correctly can be opened ted .cpg lc		ve it. Then create .cpg file with
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I have created sl	hapefile with UTF-8 attribute values. In Quantun	nGIS 1.7.1 they are display	ed correctly, but	t in Esri ArcGIS 10 encoding i
neno,				
Hello,				
Description				
Crashes QGIS or corru <b>pits</b> data:		Copied to github a	Copied to github as #: 14280	
Pull Request or Patch supplied:		Resolution:	fixed	
Operating System:		Easy fix?:	No	
Affected QGIS version:master		Regression?:	No	
Category:	Data Provider			
Assignee:	Low			
Priority: Assignee:				

# History

# #1 - 2011-10-06 01:01 AM - Giovanni Manghi

- Category set to Data Provider

- Priority changed from Normal to Low

Arcgis does not allow the user to choose the enconding when opening a vector, as QGIS does?

## #2 - 2011-10-06 03:03 AM - Giovanni Manghi

I'm not really sure this is a QGIS issue...

#### #3 - 2011-10-11 11:19 PM - vvj -

ArcGIS does not allow to choose encoding. For UTF-8 support in shapefiles, several requirements must be met:

1. Registry key with correct encoding must be set (otherwise, default system encoding will be used).

2. "When opening a shapefile and dBASE file in ArcGIS Desktop, the Desktop programs look at the Language Driver ID (LDID) in the header of a dBASE file, or an associated \*.CPG file, which are both used to define the code page, and to determine the code page of the file that is read".

In my case, registry key and .cpg files are created, but encoding is not recognized, until .dbf file is opened with LibreOffice Calc (upon opening, encoding can be choosed) and saved with the same name. dbf, saved with Calc, is slightly different than QGIS created.

I guess, that QGIS incorrectly sets encoding in .dbf header, and yes, it IS QGIS issue.

I have attached "bad" and "good" shapefile samples, maybe you can figure out, what is different.

## #4 - 2011-12-16 02:10 PM - Giovanni Manghi

- Target version set to Version 1.7.4

### #5 - 2012-04-16 06:29 AM - Paolo Cavallini

- Target version changed from Version 1.7.4 to Version 1.8.0
- Crashes QGIS or corrupts data set to No
- Affected QGIS version set to master

## #6 - 2012-09-04 11:57 AM - Paolo Cavallini

- Target version changed from Version 1.8.0 to Version 2.0.0

#### #7 - 2013-04-22 01:57 PM - Borys Jurgiel

- Resolution set to fixed
- Status changed from Open to Closed

Fixed in commit:c0551a68c250489955c9831f5714f187df087d83

The difference between the files is the test\_utf contains LDID=0x57, what is recognized by various software either as "current codepage" or "ISO-8859-1". Seems this value overrides CPG declaration for ArcGIS. LibreOffice Calc resets the LDID value to 0, so the CPG file can act. Now QGIS will reset LDID and create CPG file when creating new layer.

For existing layers you can use Shapefile Encoding Fixer plugin.

Files

test\_utf8.zip

90.8 KB 2011-10-02

vvj -