

QGIS Application - Bug report #21613

WMTS GetTile and/or WMS GetMap request flips x and y coordinates

2019-03-18 09:41 PM - Arno Lepisk

Status:	Open	
Priority:	Normal	
Assignee:		
Category:	QGIS Server	
Affected QGIS version:	3.6.0	Regression?: No
Operating System:	macOS	Easy fix?: No
Pull Request or Patch supplied:		Resolution:
Crashes QGIS or corrupts data:		Copied to github as #: 29429
Description		
I have a project which I try to expose via WMTS. The project uses the coordinate system EPSG:3006 (SWEREF99 TM) and is set up to advertise the extent (somewhat rounded numbers) minx: 580000 miny: 6510000 maxx: 766000 maxy: 6640000 When I try to fetch a tile via http://IP/qgisserver?SERVICE=WMTS&#38;REQUEST=GetTile&#38;VERSION=1.0.0&#38;LAYER=oktest&#38;FORMAT=image/png&#38;TILEMATRIXSET=EPSG:3006&#38;TILEMATRIX=6&#38;TILECOL=32&#38;TILEROW=38 I only get an empty result with this in the log: <pre>20:07:58 INFO Server[57008]: ***** New request ***** 20:07:58 INFO Server[57008]: SERVER_NAME: localhost 20:07:58 INFO Server[57008]: REQUEST_URI: /qgisserver?SERVICE=WMTS&REQUEST=GetTile&VERSION=1.0.0&LAYER=oktest&FORMAT=image/png&TILEMATRIXSET=EPSG:3006&TILEMATRIX=6&TILECOL=32&TILEROW=38 20:07:58 INFO Server[57008]: REMOTE_ADDR: 127.0.0.1 20:07:58 INFO Server[57008]: CONTENT_TYPE: 20:07:58 INFO Server[57008]: HTTP_USER_AGENT: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.14; rv:65.0) Gecko/20100101 Firefox/65.0 20:07:58 WARNING [57008]: formatString is: image/png 20:07:58 INFO Server[57008]: FORMAT:image/png 20:07:58 INFO Server[57008]: LAYER:oktest 20:07:58 INFO Server[57008]: REQUEST:GetTile 20:07:58 INFO Server[57008]: SERVICE:WMTS 20:07:58 INFO Server[57008]: TILECOL:32 20:07:58 INFO Server[57008]: TILEMATRIX:6 20:07:58 INFO Server[57008]: TILEMATRIXSET:EPSG:3006 20:07:58 INFO Server[57008]: TILEROW:38 20:07:58 INFO Server[57008]: VERSION:1.0.0 20:07:58 INFO Server[57008]: WMS Request parameters: 20:07:58 INFO Server[57008]: - CRS : EPSG:3006 20:07:58 INFO Server[57008]: - WIDTH : 256 20:07:58 INFO Server[57008]: - HEIGHT : 256 20:07:58 INFO Server[57008]: - BBOX : 634104.635759,6540133.804875,684072.635772,6590101.804887 20:07:58 INFO Server[57008]: - LAYERS : oktest 20:07:58 INFO Server[57008]: - FORMAT : image/png 20:07:58 INFO Server[57008]: - TRANSPARENT : true 20:07:58 INFO Server[57008]: - DPI : 96</pre>		

20:07:58 INFO Server[57008]: - VERSION : 1.3.0
20:07:58 INFO server[57008]: Parallel rendering deactivated
20:07:58 INFO Server[57008]: Request finished in 17 ms

Note that the calculated BBOX seems to be in order minx,miny,maxx,maxy

As I understand it the request is recalculated and executed as a WMS GetMap request internally.

If I manually express my tile request as a WMS GetMap request with the BBOX x/y coordinated flipped instead:

<http://IP/qgisserver?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetMap&LAYERS=oktest&STYLES=&WIDTH=256&HEIGHT=256&FORMAT=image/png&CRS=EPSG:3006&DPI=96&TRANSPARENT=TRUE&BBOX=6540133.804875,634104.635759,6590101.804887,684072.635772>

I get the expected map fragment with the following log:

20:08:31 INFO Server[57008]: ***** New request *****
20:08:31 INFO Server[57008]: SERVER_NAME: localhost
20:08:31 INFO Server[57008]: REQUEST_URI:
/qgisserver?SERVICE=WMS&VERSION=1.3.0&REQUEST=GetMap&LAYERS=oktest&STYLES=&WIDTH=256&HEIGHT=256&FORMAT=image/png&CRS=EPSG:3006&DPI=96&TRANSPARENT=TRUE&BBOX=6540133.804875,634104.635759,6590101.804887,684072.635772
20:08:31 INFO Server[57008]: REMOTE_ADDR: 127.0.0.1
20:08:31 INFO Server[57008]: CONTENT_TYPE:
20:08:31 INFO Server[57008]: HTTP_USER_AGENT: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.14; rv:65.0) Gecko/20100101 Firefox/65.0
20:08:31 WARNING [57008]: formatString is: image/png
20:08:31 INFO Server[57008]: BBOX:6540133.804875,634104.635759,6590101.804887,684072.635772
20:08:31 INFO Server[57008]: CRS:EPSG:3006
20:08:31 INFO Server[57008]: DPI:96
20:08:31 INFO Server[57008]: FORMAT:image/png
20:08:31 INFO Server[57008]: HEIGHT:256
20:08:31 INFO Server[57008]: LAYERS:oktest
20:08:31 INFO Server[57008]: REQUEST:GetMap
20:08:31 INFO Server[57008]: SERVICE:WMS
20:08:31 INFO Server[57008]: STYLES:
20:08:31 INFO Server[57008]: TRANSPARENT:TRUE
20:08:31 INFO Server[57008]: VERSION:1.3.0
20:08:31 INFO Server[57008]: WIDTH:256
20:08:31 INFO Server[57008]: WMS Request parameters:
20:08:31 INFO Server[57008]: - CRS : EPSG:3006
20:08:31 INFO Server[57008]: - WIDTH : 256
20:08:31 INFO Server[57008]: - HEIGHT : 256
20:08:31 INFO Server[57008]: - BBOX : 6540133.804875,634104.635759,6590101.804887,684072.635772
20:08:31 INFO Server[57008]: - LAYERS : oktest
20:08:31 INFO Server[57008]: - FORMAT : image/png
20:08:31 INFO Server[57008]: - TRANSPARENT : TRUE
20:08:31 INFO Server[57008]: - DPI : 96
20:08:31 INFO Server[57008]: - VERSION : 1.3.0
20:08:31 INFO server[57008]: Parallel rendering deactivated
20:08:31 INFO Server[57008]: Request finished in 175 ms

Note that the BBOX is expressed as miny,minx,maxy,maxx

History

#1 - 2019-03-20 01:30 PM - Giovanni Manghi

- Status changed from Open to Feedback

Did it worked as expected on QGIS Server 2.*?

#2 - 2019-03-20 08:24 PM - Arno Lepisk

I do not know, 3.6 is the first version I have used for this

#3 - 2019-03-20 11:43 PM - Giovanni Manghi

Arno Lepisk wrote:

| I do not know, 3.6 is the first version I have used for this

Can you just download and install it and try? Thanks!

#4 - 2019-04-09 09:33 PM - Arno Lepisk

Hi, I've installed and tested 2.18.28 - it doesn't work. Trying to get `IP/qgisserver?SERVICE=WMTS&REQUEST=GetCapabilities` results in an "Service unknown or unsupported" error. The project file setting doesn't have any WMTS options either; leading me to believe that WMTS wasn't supported in 2.18?

#5 - 2019-04-10 10:04 AM - Giovanni Manghi

- Status changed from Feedback to Open