

## QGIS Application - Bug report #14589

### GetCapabilities gets cached in a confusing way (even when QGIS cache is set to 0)

2016-03-29 12:25 PM - Nicklas Avén

<b>Status:</b>	Closed	
<b>Priority:</b>	High	
<b>Assignee:</b>		
<b>Category:</b>	Web Services clients/WMS	
<b>Affected QGIS version:</b>	2.18.9	<b>Regression?:</b> Yes
<b>Operating System:</b>		<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>		<b>Resolution:</b> fixed/implemented
<b>Crashes QGIS or corrupts data:</b>		<b>Copied to github as #:</b> 22557
<b>Description</b>		
<p>When connecting to a wms-service you get a fresh GetCapabilities response.</p> <p>But the, when you try to add the layer to the map some old cached information about the service is used.</p> <p>This is a behavior I cannot understand and it is very confusing. I guess it is a bug since I cannot find any reason to do it this way.</p> <p>My guess is that the response is cached for usage together with the already added layers, but then it is important that a new layer gets added with the fresh getcapabilities response fetched when connecting last time.</p> <p>The behavior now is very confusing and difficult to understand at first glance, so debugging to find it out is a nightmare.</p> <p>Here is a post at the mailing list discussing this, including links to others who had the same problem.</p> <p><a href="http://lists.osgeo.org/pipermail/qgis-developer/2016-March/042095.html">http://lists.osgeo.org/pipermail/qgis-developer/2016-March/042095.html</a></p>		
<b>Related issues:</b>		
Related to QGIS Application - Bug report # 10634: WMS provider: Cannot calcul...	<b>Closed</b>	<b>2014-06-18</b>
Related to QGIS Application - Bug report # 7712: qgis server master does not ...	<b>Closed</b>	<b>2013-04-25</b>
Related to QGIS Application - Bug report # 13762: Error accessing external WM...	<b>Closed</b>	<b>2015-11-05</b>
Related to QGIS Application - Bug report # 13294: WMS extent/coordinates wron...	<b>Closed</b>	<b>2015-08-31</b>

#### History

##### #1 - 2016-04-09 08:51 AM - Giovanni Manghi

- OS version deleted (jessie)
- Target version deleted (Version 2.14)
- Operating System deleted (Debian)

see also #13762

##### #2 - 2017-03-10 08:02 AM - Giovanni Manghi

- Target version set to Version 2.18
- Priority changed from Normal to Severe/Regression
- Affected QGIS version changed from 2.14.0 to 2.18.4

This is still confirmed in 2.18.4. And worst is that happens even when cache size is set 0 in QGIS general options.

I raise the priority because this was NOT an issue in past releases: right now fine tuning a WMS service (so a lot of trials are needed on the client after

changes on the server, both at a project/mapfile level as also in the web server) can become a nightmare.

**#3 - 2017-03-10 08:54 AM - Giovanni Manghi**

- Subject changed from *GetCapabilities gets cached in a confusing way* to *GetCapabilities gets cached in a confusing way (even when QGIS cache is set to 0)*

**#4 - 2017-04-30 05:08 PM - Giovanni Manghi**

- Regression? set to Yes

**#5 - 2017-04-30 05:08 PM - Giovanni Manghi**

- Priority changed from Severe/Regression to High

**#6 - 2017-05-01 01:10 AM - Giovanni Manghi**

- Easy fix? set to No

**#7 - 2017-05-05 01:10 PM - Giovanni Manghi**

- Description updated

- Affected QGIS version changed from 2.18.4 to 2.18.7

**#8 - 2017-05-16 06:12 PM - Luigi Pirelli**

just evaluating the issue if I'm able to fix

**#9 - 2017-05-19 10:16 AM - Luigi Pirelli**

I analysed the qgis and qt (QNetworkDiskCache and related) code and I can't find any possible bug... I followed capability caching and caching reset debugging qgis, but I'm not able to replicate the wrong behaviour.

The clear cache button works correctly (clearing the cached metadata, not wiping the cache disk area because it's a generic cache mechanism not aware of kind of cache support). Btw, as tested by @GiovanniManghi, that he's able to replicate, the wipe of the cache disk area solve the anomaly.

A possible solution/workaround is to add a wipe button by side of clear button that allow the wipe of disk area.

**#10 - 2017-05-19 10:19 AM - Giovanni Manghi**

Luigi Pirelli wrote:

*I analysed the qgis and qt (QNetworkDiskCache and related) code and I can't find any possible bug... I followed capability caching and caching reset debugging qgis, but I'm not able to replicate the wrong behaviour.*

*The clear cache button works correctly (clearing the cached metadata, not wiping the cache disk area because it's a generic cache mechanism not aware of kind of cache support). Btw, as tested by @GiovanniManghi, that he's able to replicate, the wipe of the cache disk area solve the anomaly.*

*A possible solution/workaround is to add a wipe button by side of clear button that allow the wipe of disk area.*

give me some time and I'll put together a series of steps to replicate.

Anyway the problem exist and is undeniable... it has been source of several reports here... all "solved" by wiping the cache folder.

**#11 - 2017-05-19 01:45 PM - Luigi Pirelli**

I can't find a way to reproduce the error. The QgsNetworkAccessManager.instance().cache().clear() already clear the cache => no need to wipe the cache three structure.

I'll suspend the research waiting for a reproducible issue procedure

**#12 - 2017-06-07 01:11 PM - Giovanni Manghi**

- *Affected QGIS version changed from 2.18.7 to 2.18.9*

I have sent Luigi the necessary infos (and a screencast) about how see/replicate the issue,.

**#13 - 2017-07-06 10:17 AM - dr -**

Faced again with this issue in 2.18.10 with the same behaviour as I described year ago in #14396-4

**#14 - 2017-09-11 05:51 PM - Giovanni Manghi**

Tested on 2.18.12 and master and it seems to behave much better now in case an underlying service has changed. It seems that now "0" as cache amount means really "0". Also it seems that the button to clear the cache (when >0) seems to work. On 2.18.12 is still unclear to me if the cache really expires after some time... but anyway it seems that (if >0) at least on QGIS 3 if the underlying service changes the request is done from scratch.

I suggest to change this issue to a new one asking to add a note in the docs (if not there already).

**#15 - 2017-09-11 05:51 PM - Giovanni Manghi**

- *Status changed from Open to Feedback*

**#16 - 2017-10-09 12:30 AM - Giovanni Manghi**

- *Status changed from Feedback to Closed*

- *Resolution set to fixed/implemented*