QGIS Application - Bug report #10634
WMS provider: Cannot calculate extent

2014-06-18 11:11 AM - dr -

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	Web Services clients/WMS		
Affected QGIS version:	master	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	duplicate
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	19037

Description

I have local MapServer-based WMS server which can send data in two SRS: EPSG:4326 and EPSG:3857. When I add layer using SRS EPSG:4326 all works fine, but when I try to add layer using SRS EPSG:3857 I get error message:

```
WMS provider: Cannot calculate extent
Raster layer: Provider is not valid (provider: wms, URI:
crs=EPSG:3857&dpiMode=2&featureCount=10&format=image/png&layers=building&styles=&url=http://192.168.250.105/cgi-bin/wms?VERS
/wms?VERSION%3D1.1.1
```

In QGIS 1.8 this WMS-layer works fine with both SRS.

Example of map-file:

```
MAP

  NAME "Vega WMS Server"

  SYMBOLSET        "symbols/symbols.sym"
  FONTSET          "fonts/fonts.list"

  OUTPUTFORMAT
    NAME         "png"
    EXTENSION    "png"
    MIMETYPE     "image/png"
    DRIVER       AGG/PNG
    IMAGEMODE    RGBA
    FORMATOPTION  "INTERLACE=OFF"
  END

  PROJECTION
    "init=epsg:3857"
  END

  WEB
   METADATA
    "wms_title"         "WMS Demo Server for MapServer"
    "wms_onlineresource" "http://10.22.0.9/cgi-bin/mapserv?map=/home/rykovd/wms/wms.map&"
    "wms_srs"           "EPSG:4326 EPSG:3857"
    "wms_abstract"      "Saint Petersburg demo WMS"
```

```
    "wms_enable_request" "*"
    "wms_encoding"       "utf-8"
   END
  END

  LAYER
   NAME "building"
   METADATA
    "wms_title"         "Building"
    "gml_include_items"  "all"
    "wms_enable_request" "*"
    "wms_extent"        "3277518.64189396 8321348.77352887 3420433.60980062 8453918.88750861"
   END
   TEMPLATE dummy.html
   TYPE POLYGON
   CONNECTIONTYPE  postgis
   CONNECTION     "user=pguser password=topsecret dbname=dbvega host=localhost"
   DATA          "webmercator from building_polygon"
   CLASS
     STYLE
       COLOR       206 154 156
       OUTLINECOLOR 106 106 106
     END
   END
  END

END
```

Related issues:

Related to QGIS Application - Bug report # 14589: GetCapabilities gets cached...	**Closed**	**2016-03-29**

History

#1 - 2014-06-18 11:16 AM - dr -

GetCapabilities response:

```
<?xml version='1.0' encoding="utf-8" standalone="no" ?>
<!DOCTYPE WMT_MS_Capabilities SYSTEM "http://schemas.opengis.net/wms/1.1.1/WMS_MS_Capabilities.dtd"
 [
 <!ELEMENT VendorSpecificCapabilities EMPTY>
 ]>  <!-- end of DOCTYPE declaration -->

<WMT_MS_Capabilities version="1.1.1">

<!-- MapServer version 6.4.1 OUTPUT=GIF OUTPUT=PNG OUTPUT=JPEG OUTPUT=KML SUPPORTS=PROJ SUPPORTS=GD
SUPPORTS=AGG SUPPORTS=FREETYPE SUPPORTS=CAIRO SUPPORTS=SVG_SYMBOLS SUPPORTS=RSVG SUPPORTS=ICONV
SUPPORTS=FRIBIDI SUPPORTS=WMS_SERVER SUPPORTS=WMS_CLIENT SUPPORTS=WFS_SERVER SUPPORTS=WFS_CLIENT
SUPPORTS=WCS_SERVER SUPPORTS=SOS_SERVER SUPPORTS=FASTCGI SUPPORTS=THREADS SUPPORTS=GEOS INPUT=JPEG
INPUT=POSTGIS INPUT=OGR INPUT=GDAL INPUT=SHAPEFILE -->

<Service>
  <Name>OGC:WMS</Name>
```

```
  <Title>WMS Demo Server for MapServer</Title>
  <Abstract>Saint Petersburg demo WMS</Abstract>
  <OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/>
  <ContactInformation>
  </ContactInformation>
</Service>

<Capability>
  <Request>
    <GetCapabilities>
      <Format>application/vnd.ogc.wms_xml</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
    </GetCapabilities>
    <GetMap>
      <Format>image/png</Format>
      <Format>image/jpeg</Format>
      <Format>image/gif</Format>
      <Format>image/png; mode=8bit</Format>
      <Format>application/x-pdf</Format>
      <Format>image/svg+xml</Format>
      <Format>image/tiff</Format>
      <Format>application/vnd.google-earth.kml+xml</Format>
      <Format>application/vnd.google-earth.kmz</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
    </GetMap>
    <GetFeatureInfo>
      <Format>text/plain</Format>
      <Format>application/vnd.ogc.gml</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
    </GetFeatureInfo>
    <DescribeLayer>
      <Format>text/xml</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
```

```
    </DescribeLayer>
    <GetLegendGraphic>
      <Format>image/png</Format>
      <Format>image/jpeg</Format>
      <Format>image/gif</Format>
      <Format>image/png; mode=8bit</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
    </GetLegendGraphic>
    <GetStyles>
      <Format>text/xml</Format>
      <DCPType>
        <HTTP>
          <Get><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Get>
          <Post><OnlineResource xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://192.168.250.105/cgi-bin/wms?"/></Post>
        </HTTP>
      </DCPType>
    </GetStyles>
  </Request>
  <Exception>
    <Format>application/vnd.ogc.se_xml</Format>
    <Format>application/vnd.ogc.se_inimage</Format>
    <Format>application/vnd.ogc.se_blank</Format>
  </Exception>
  <VendorSpecificCapabilities />
  <UserDefinedSymbolization SupportSLD="1" UserLayer="0" UserStyle="1" RemoteWFS="0"/>
  <Layer>
<!-- WARNING: The layer name 'Vega WMS Server' might contain spaces or invalid characters or may start with a number. This could lead to
potential problems. -->
    <Name>Vega WMS Server</Name>
    <Title>WMS Demo Server for MapServer</Title>
    <Abstract>Saint Petersburg demo WMS</Abstract>
    <SRS>EPSG:4326</SRS>
    <SRS>EPSG:3857</SRS>
    <LatLonBoundingBox minx="-8.98315e-06" miny="-8.98315e-06" maxx="-8.98315e-06" maxy="-8.98315e-06" />
    <BoundingBox SRS="EPSG:3857"
              minx="-1" miny="-1" maxx="-1" maxy="-1" />

    <Layer queryable="1" opaque="0" cascaded="0">
      <Name>building</Name>
      <Title>Building</Title>
      <LatLonBoundingBox minx="29.4425" miny="59.646" maxx="30.7263" maxy="60.2425" />
      <BoundingBox SRS="EPSG:3857"
                minx="3.27752e+06" miny="8.32135e+06" maxx="3.42043e+06" maxy="8.45392e+06" />
    </Layer>

  </Layer>
</Capability>
</WMT_MS_Capabilities>
```

#2 - 2014-06-18 11:22 PM - dr -

I've fixed my problem by manually adding the following option for root MAP object of map-file:

```
EXTENT          3.27621e+06 8.31941e+06 3.42256e+06 8.45391e+06
```

In this case MapServer returns correct values of LatLonBoundingBox and BoundingBox of root Layer element of GetCapabilities response. But it is not clear for me why QGIS uses values of these options if values of LatLonBoundingBox and BoundingBox for each inner Layer element are correct?

#3 - 2015-10-16 05:37 AM - Luis Fajardo

I have same problem with QGIS 2.4.0 on Debian 8 trying to add any of the following WMS services:

- http://idecan2.grafcan.es/ServicioWMS/ENP_ORD
- http://idecan2.grafcan.es/ServicioWMS/Historico/MTI/MTI_2013
- http://idecan2.grafcan.es/ServicioWMS/Planeamiento

This is part of the capability response:

```
<SRS>EPSG:32628</SRS>
<SRS>EPSG:4326</SRS>
<SRS>EPSG:32627</SRS>
<LatLonBoundingBox minx="-18.4913" miny="26.582" maxx="-13.0688" maxy="30.4726"/>
<BoundingBox SRS="EPSG:32628" minx="164622" miny="2.94455e+06" maxx="685418" maxy="3.37115e+06"/>
```

Is it a problem with QGis or should I complain for the server configuration?

In the while, dr, what dou you mean with adding an option "for root MAP object of map-file"? What file should I edit? How can I add such an option?

Sincerely,
Luis.

P.S.: The following is the whole capability response I get from server:

```
<!-- end of DOCTYPE declaration -->
<WMT_MS_Capabilities version="1.1.1"><!-- MapServer 5.0 vg 1.6 GRAFCAN 2008 -->
 <Service>
  <Name>OGC:WMS</Name>
  <Title>IDECanarias Ordenación de Espacios Naturales Protegidos</Title>
  <Abstract>Ordenación de Espacios Naturales Protegidos. Propiedad del Gobierno de Canarias.</Abstract>
  <KeywordList>
   <Keyword>WMS</Keyword>
   <Keyword>CLASIFICACION</Keyword>
   <Keyword> ZONIFICACION</Keyword>
   <Keyword>EENNPP</Keyword>
   <Keyword> ESPACIOS NATURALES PROTEGIDOS</Keyword>
   <Keyword>CANARIAS</Keyword>
   <Keyword>GRAFCAN</Keyword>
```

```
 <Keyword>CANARY</Keyword>
 <Keyword>ISLANDS</Keyword>
 <Keyword>PLANNING</Keyword>
</KeywordList>
<OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
<ContactInformation>
 <ContactPersonPrimary>
  <ContactPerson/>
  <ContactOrganization>Cartografica de Canarias S.A. (GRAFCAN)</ContactOrganization>
 </ContactPersonPrimary>
 <ContactElectronicMailAddress>info@grafcan.com</ContactElectronicMailAddress>
</ContactInformation>
<Fees>none</Fees>
<AccessConstraints>Acceso libre. Prohibido el uso comercial y la descarga masiva de información.</AccessConstraints>
</Service>
<Capability>
 <Request>
  <GetCapabilities>
   <Format>application/vnd.ogc.wms_xml</Format>
   <DCPType>
    <HTTP>
     <Get>
      <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
     </Get>
     <Post>
      <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
     </Post>
    </HTTP>
   </DCPType>
  </GetCapabilities>
  <GetMap>
   <Format>image/png</Format>
   <Format>image/gif</Format>
   <DCPType>
    <HTTP>
     <Get>
      <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
     </Get>
     <Post>
      <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
     </Post>
    </HTTP>
   </DCPType>
  </GetMap>
  <GetFeatureInfo>
   <Format>text/html</Format>
   <Format>text/plain</Format>
   <Format>application/vnd.ogc.gml</Format>
   <DCPType>
    <HTTP>
     <Get>
      <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
     </Get>
```

```
    <Post>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Post>
   </HTTP>
  </DCPType>
 </GetFeatureInfo>
 <DescribeLayer>
  <Format>text/xml</Format>
  <DCPType>
   <HTTP>
    <Get>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Get>
    <Post>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Post>
   </HTTP>
  </DCPType>
 </DescribeLayer>
 <GetLegendGraphic>
  <Format>image/png</Format>
  <Format>image/gif</Format>
  <DCPType>
   <HTTP>
    <Get>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Get>
    <Post>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Post>
   </HTTP>
  </DCPType>
 </GetLegendGraphic>
 <GetStyles>
  <Format>text/xml</Format>
  <DCPType>
   <HTTP>
    <Get>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Get>
    <Post>
     <OnlineResource xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?"/>
    </Post>
   </HTTP>
  </DCPType>
 </GetStyles>
</Request>
<Exception>
 <Format>application/vnd.ogc.se_xml</Format>
 <Format>application/vnd.ogc.se_inimage</Format>
 <Format>application/vnd.ogc.se_blank</Format>
</Exception>
<VendorSpecificCapabilities/>
```

```
<UserDefinedSymbolization SupportSLD="1" UserLayer="0" UserStyle="1" RemoteWFS="0"/>
<Layer>
 <Name>WMS_ENP_ORD</Name>
 <Title>IDECanarias Ordenación de Espacios Naturales Protegidos</Title>
 <SRS>EPSG:32628</SRS>
 <SRS>EPSG:4326</SRS>
 <SRS>EPSG:32627</SRS>
 <LatLonBoundingBox minx="-18.4913" miny="26.582" maxx="-13.0688" maxy="30.4726"/>
 <BoundingBox SRS="EPSG:32628" minx="164622" miny="2.94455e+06" maxx="685418" maxy="3.37115e+06"/>
 <Layer queryable="1" opaque="0" cascaded="0">
  <Name>ENP</Name>
  <Title>Ordenación de Espacios Naturales</Title>
  <SRS>EPSG:32628</SRS>
  <LatLonBoundingBox minx="-17.9545" miny="27.9866" maxx="-14.012" maxy="28.8333"/>
  <BoundingBox SRS="EPSG:32628" minx="211615" miny="3.09918e+06" maxx="596387" maxy="3.18952e+06"/>
  <Style>
   <Name>default</Name>
   <Title>default</Title>
   <LegendURL width="20" height="10">
    <Format>image/png</Format>
    <OnlineResource xlink:type="simple"
xlink:href="http://idecan2.grafcan.es/ServicioWMS/ENP_ORD?version=1.1.1&service=WMS&request=GetLegendGraphic&layer=ENP&format=image/png"/>
age/png"/>
   </LegendURL>
  </Style>
  <ScaleHint min="24.9456413243303" max="0"/>
  <!-- WARNING: Only MINSCALEDENOM and no MAXSCALEDENOM specified in the mapfile. A default value of 0 has been returned for the
Max ScaleHint but this is probably not what you want.
 -->
 </Layer>
</Layer>
</Capability>
</WMT_MS_Capabilities>
```


#4 - 2016-07-13 03:13 AM - Matthias Kuhn

Happened to me with a QGIS server where the project title and the file name were different.
Once the file was renamed, it would properly load.

#5 - 2017-05-01 01:08 AM - Giovanni Manghi

- Regression? set to No
- Easy fix? set to No

#6 - 2017-09-11 05:51 PM - Giovanni Manghi

- Description updated
- Status changed from Open to Feedback

see also #14589-15

#7 - 2018-02-22 12:31 PM - Giovanni Manghi

- Resolution set to duplicate

- Status changed from Feedback to Closed

This is (was) a caching problem, should be ok an all the latest releases.