

6.2.2.3 An Example of Creating a Map Tile Layer Using an External Map Source

You may use an external map source to create a map tile layer. This example uses MapViewer's WMS service to create a tile layer. Follow these steps:

- 1) Log into MapViewer's admin console.
- 2) Click the **Create Tile Layer** menu.
- 3) Select **External** in the dropdown list box as this tile layer's map image source. Click **Continue**.
- 4) In the **Create a map tile layer for external map source** page, fill the following fields:

Name: TL_WMS
Data Source: MVDEMO
Max browser tile cache age(hours): 168
Map service Url: http://mycorp.com:7001/mapviewer/wms
Request Method: HTTP GET
Adapter class: oracle.lbs.mapcache.adapter.WMSAdapter
Jar file location: **adapterlibs/**
Background: (check) transparent
Adapter properties: (check it and click **Add** multiple times and enter the following values)

name	value
-----	-----
datasource	mvdemo
version	1.1.1
srs	EPSG:4326
layers	THEME_DEMO_COUNTIES,THEME_DEMO_HIGHWAYS
format	image/png
transparent	true

Tile storage: c:\\temp
SRID: 8307
Min X: -180.0
Max X: 180.0
Min Y: -90.0
Max Y: 90.0
Tile width (pixels): 256
Tile height (pixels): 256
File format: PNG
Zoom Levels: 10
Minimum map scale: 1000
Maximum map scale: 250000000

5) Click **Submit** to create the tile layer.

You should see **Information: New map tile layer created successfully** on the updated screen. To verify the created tile layer, you may select the tile layer, and then click **View map / Manage tiles** to preview the map.

Note that the **Jar file location** field provides a relative path under WEB-INF/tileservers/. In the above example, the jar file containing the specified **Adapter class** should be under folder WEB-INF/tileservers/adapterlibs/.

The screenshot is:

Create a map tile layer for external map source

Name:

Data Source:

Max browser tile cache age(hours)

Map service Url:

Request method:

☐ HTTP proxy required

Adapter class:

Jar file location:

Background: ☒ transparent

☒ Adapter properties

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Properties:

Select	name	value
<input type="radio"/>	datasource	<input type="text" value="mvdemo"/>
<input type="radio"/>	version	<input type="text" value="1.1.1"/>
<input type="radio"/>	srs	<input type="text" value="EPSG:4326"/>
<input type="radio"/>	layers	<input type="text" value="THEME_DEMO_COUNTIES,THE"/>
<input type="radio"/>	format	<input type="text" value="image/png"/>

Tile storage:

SRID:

Min X:

Here is the tile layer inserted into the USER_SDO_CACHED_MAPS:

```
<?xml version = '1.0'?>
<!-- XML definition of an external map tile layer.
-->
<map_tile_layer name="TL_WMS" image_format="PNG">
  <external_map_source
    url="http://adc4110595.us.oracle.com:7001/mapviewer/wms/"
    request_method="GET"
```

```

adapter_class="oracle.lbs.mapcache.adapter.WMSAdapter"
adapter_class_path=""
<properties>
  <property name="datasource" value="mvdemo"/>
  <property name="version" value="1.1.1"/>
  <property name="srs" value="EPSG:4326"/>
  <property name="layers" value="THEME_DEMO_COUNTIES,THEME_DEMO_HIGHWAYS"/>
  <property name="format" value="image/png"/>
  <property name="transparent" value="true"/>
</properties>
</external_map_source>
<tile_storage root_path="/scratch/tmp"/>
<coordinate_system srid="8307" minX="-180.0" minY="-90.0" maxX="180.0" maxY="90.0"/>
<tile_image width="256" height="256"/>
<!--
  The following <zoom_levels> element does not have any
  <zoom_level> element inside it. But since it has its levels,
  min_scale and max_scale attributes set, map tile server will
  automatically generate the <zoom_level> elements for the 10
  zoom levels.
-->
<zoom_levels levels="10" min_scale="1000.0" max_scale="2.5E8">
</zoom_levels>
</map_tile_layer>

```

To verify the created tile layer, you may select the tile layer, and then click **View map / Manage tiles** to preview the map. In this example, this is the map displayed with the given parameters:

