

cyclomedia

Atlas WMS Rendering Service API



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1. Introduction

1.1 Purpose

This document describes the Application Programmer's Interface (API) offered by the Atlas WmsRendering service. The latest functionalities described in this document are implemented in WmsRendering service v1.6.xxx.1.

1.2 Audience

This document is intended for developers that want to use the Atlas WmsRendering service.



2. Requests

2.1 Authentication

The HTTP Basic Authentication method is used to authenticate requests to the WmsRendering service. A username and password can be obtained from CycloMedia.

2.2 Operations

The service is available from <https://atlasapi.cyclomedia.com/api/wmsrendering>. The HTTPS protocol is used to provide encrypted communication and secure identification of the web server.

The WmsRendering service is a REST style service. The following operations are possible:

- RenderByLocation2D, renders a WMS layer centered to a given location
- RenderByAddress, renders a WMS layer centered to a given address.

2.3 Response format

The response of ALL methods is a jpeg for the runtime rendered image, if not specified otherwise.



3. Operations

3.1 RenderByLocation2D

Renders a WMS layer near a given location. The image is automatically centered to the given location.

Request format

The request has the following format:

```
/RenderByLocation2D/<layer>/<srs>/<x | lon>/<y | lat>/?
```

```
width=<width>&height=<height>&apiKey=<apiKey>
```

With parameters:

Attribute	Default	Max	Description
layer			WMS layer
srs	-		EPSG code of the spatial reference system, without prefix.
x or lon	-		X coordinate in metres for a projected coordinate system, in degrees for a geographic coordinate system.
y or lat	-		Y coordinate in metres for a projected coordinate system, in degrees for a geographic coordinate system.
width	1024	2048	The width of the generated image in pixels.
height	768	2048	The height of the generated image in pixels.
scale	1.0		Automatically scale to the resolution of the WMS layer.
res			Absolute resolution in meters per pixel. Overrides "scale" parameter
apiKey	-		The developer key obtained from CycloMedia to authorize access to this service

The complete url for a request is:

```
https://atlasapi.cyclomedia.com/Api/WmsRendering/RenderByLocation2D/{layer}/{srs}/{x}/{y}/?
```

Example:

```
https://atlasapi.cyclomedia.com/Api/WmsRendering/RenderByLocation2D/NL_aerial_2019_10cm/28992/145441.414/427127.963/?width=1024&height=786&apiKey=1234567890abcdef
```

Parameters after the question mark "?" may be omitted. The default values for parameters as listed in the table will be used if a parameter is omitted.

3.2 RenderByAddress

Renders a WMS layer near a given address location. The image is automatically centered to the given address location.

Request format

The request has the following format:

/RenderByAddress/<layer>/<country>/<address>/?

width=<width>&height=<height >&apiKey=<apiKey>

With parameters:

Attribute	Default	Max	Description
layer			WMS layer
country	-		2 letter country abbreviation. i.e. NL
address	-		Address to be queried.
width	1024	2048	The width of the generated image in pixels.
height	768	2048	The height of the generated image in pixels.
scale	1.0 or auto if omitted		Automatically scale to the resolution of the WMS layer for full address. - autoscale to area for incomplete addresses like streets and cities.
res			Absolute resolution in meters per pixel. Overrides "scale" parameter
apiKey	-		The developer key obtained from CycloMedia to authorize access to this service

The complete url for a request is:

<https://atlasapi.cyclomedia.com/Api/WmsRendering/RenderByAddress/{country}/{address}/?>

Examples:

https://atlasapi.cyclomedia.com/Api/WmsRendering/RenderByAddress/NL_aerial_2020_10cm/NL/4181AE%2038/?width=1024&height=786&apiKey=1234567890abcdef

Parameters after the question mark "?" may be omitted. The default values for parameters as listed in the table will be used if a parameter is omitted.

4. Error response format

4.1 Error message format

On input or processing error cases an XML error message is returned.

ResponseHeader:

```
Content-Type: application/xml; charset=utf-8
```

ResponseBody:

```
<Fault xmlns:i="http://www.w3.org/2001/XMLSchema-instance">  
  <detail>The specified address was not found by ...</detail>  
  <faultcode>404</faultcode>  
  <faultstring>NotFound</faultstring>  
</Fault>
```

4.2 HTTP response codes

The normal behavior of REST web services is, to return HTTP status codes that correspond to the situation, if appropriate. This is also the case for this REST web service.

It is however possible to override this behavior to make some integrations easier/possible.

When "**ReturnHttpErrors=0**" is defined, the service itself will always return a **200** response code. The original designated HTTP response code is always reflected in the "faultcode" field of the XML error message.

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