

# WMTS Integration

WMTS (Web Map Tile Server) integration allows users of some GIS software packages to download pre-rendered map tiles from Nearmap servers. WMTS has the advantage of providing low-latency map rendering.

Nearmap's WMTS integration exposes our tile API, which is actually Google-style TMS. More information about our Tile API is available in our [Tile API guide](#). Please note that Nearmap's WMTS imagery is only available in Web Mercator projection (EPSG:3857).

## Service Endpoints

Depending on your application, you may need to provide either one of both of the below URLs to connect to Nearmap imagery.

Parameter	US Endpoint
Capabilities URL	<code>https://us0.nearmap.com/maps/api/wmts/v1/apikey/YOUR_API_KEY</code>
Tile URL template	<code>https://us0.nearmap.com/maps/z={z}&amp;x={x}&amp;y={y}&amp;version=2&amp;nml=Vert&amp;client=wmts_integration&amp;httpauth=false&amp;apikey=YOUR_API_KEY</code>
Parameter	AU & New Zealand Endpoint
Capabilities URL	<code>https://au0.nearmap.com/maps/api/wmts/v1/apikey/YOUR_API_KEY</code>
Tile URL Template	<code>https://au0.nearmap.com/maps/z={z}&amp;x={x}&amp;y={y}&amp;version=2&amp;nml=Vert&amp;client=wmts_integration&amp;httpauth=false&amp;apikey=YOUR_API_KEY</code>

The tile URL templates contains parameters enclosed in braces. The exact values of those differ from application to application, in most cases they are referred to as X, Y, and Z. Sometimes they are also called Row, Column, and Zoom or Level. Please consult your application documentation for details on how to configure the WMTS URL Template.

Below is the table that describes the most common parameter names:

Nearmap Parameter Name	Other Application Names
Y	row, tilerow
X	col, tilecol
Z	zoom, tilematrix, level

## Authentication

Nearmap's APIs, including WMTS, use an API Key in the URL for authentication. See [API Key Authentication](#) for details.