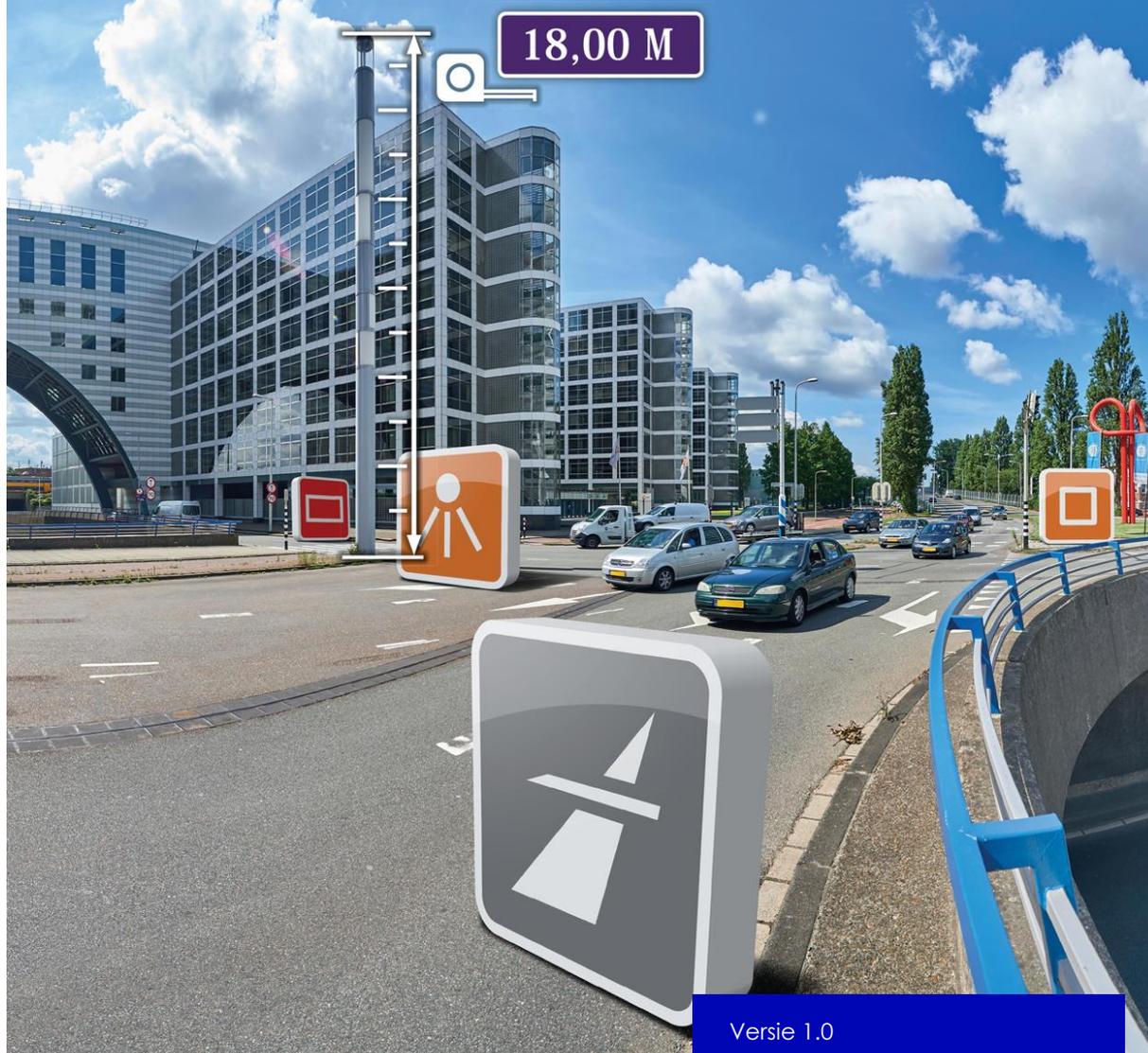


An introduction to the Cyclomedia APIs



1. Introduction

This document is a guideline to developers to help them to choose the right Cyclomedia API. It depends on what you need from us as a product which API you need. Let us start with the complete list of APIs.

1.1 List of Cyclomedia APIs

- Street Smart API
- Atlas WFS recording service
- Atlas panorama rendering service
- Atlas Oblique recording service
- Atlas WMS rendering service
- LuchtfotoNL web map services (WMS, WMTS, TMS)

2. Select the type of data that you need.

2.1 (Geo)Cycloramas

These are the street level photos. They are available in 2 formats

2.1.1 360 degrees panoramic images

If you want to use our 360 degrees panoramic images then you need to use the Street Smart API. Street Smart is our viewer for these images. You can view them in 360 degrees and options like overlays and measurements are provided by the **Street Smart API**. Cyclomedia does not allow the 360 degrees panoramic images to be used in third party viewers.

2.1.2 A cyclorama image cut-out (JPG)

When you do not need the complete 360 view then you can create cut-outs of the 360 degrees images. The cut-outs are generated in a central perspective. The API that you should use for this is the **Atlas panorama rendering service API**. Cut-outs are typically used on reports but also texturing of 3D models is a type of use.

2.2 Lidar Point clouds

Cyclomedia provides a lidar point cloud viewer. It is part of the **Street Smart API**. It is not possible to download point clouds into a file with a Cyclomedia API.

2.3 Oblique Aerial imagery (only in the Netherlands)

The oblique (bird's-eye view) aerial imagery of Cyclomedia can be viewed in the **Street Smart API**. Cyclomedia does not provide an API to download oblique aerial images for use in other viewers.

2.4 Ortho Aerial imagery (only in the Netherlands)

2.4.1 Ortho Aerial imagery as map.

Ortho Aerial imagery is available as **WMS, WMTS and TMS LuchtfotoNL web map service**. These are standardized web services and are compliant with different map software components.

2.4.2 Ortho Aerial imagery as a cutout.

If you do not need the ortho aerial imagery as a map but only a specific part of the imagery, then you can use the **WMS rendering service**. This service created JPG images based on coordinate or address.

2.5 Meta data (search)

In case you need to search through our data, or you need more details about our imagery then we have the following options available

2.5.1 Cyclorama information

2.5.1.1 Cycloramas on a map.

When you want to plot the recording locations of the cycloramas then you can use the **Atlas Recordings WFS**. It is a Web Feature Service providing the recording locations and all available meta data of the cycloramas. You request the recordings based on the bounding box of your map.

2.5.1.2 Search nearby cycloramas.

It can be useful to know which cycloramas are nearby a given address or coordinate. For this purpose, you can use the list options of the **Atlas panorama rendering service**. It returns imageIDs of the nearby cycloramas and the direction to the given address or coordinate.

2.6 Oblique imagery information

There is one option to obtain the meta data and that is using the **Atlas Oblique recording service**. This is also a WFS service like there is for cycloramas. It can be used for searching on oblique imagery around a coordinate or within a bounding box. This service also returns footprints (polygons) which can be drawn on the map of your application.

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