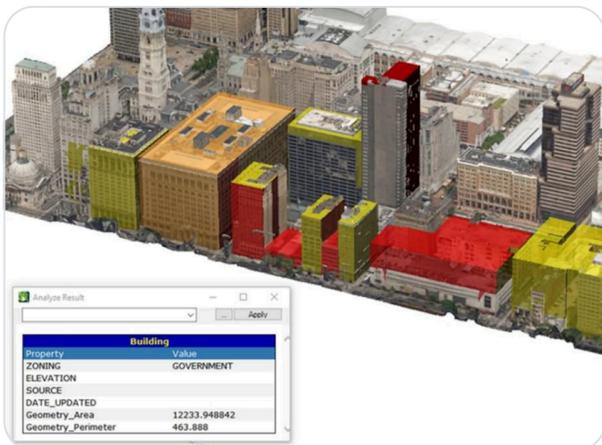# OpenCities® Map PowerView

**View and edit 2D assets for cities, utilities, airports, and infrastructure**



OpenCities Map is a geospatial tool for engineers, architects, and city planners. It integrates engineering, geospatial, and reality data from many sources into structured spatial information and maps for cities, utilities, airports, and infrastructure.

OpenCities Map PowerView enables you to view map assets and perform light 2D feature acquisition and editing. It supports GPS and editing capabilities, making it ideal for field-based operations that require feature editing. OpenCities Map PowerView enables direct querying of and imports from leading spatial databases such as Oracle Spatial, Microsoft SQL Server, Esri File Geodatabase, ArcGIS Server & Online, PostgreSQL (PostGIS) and Web Feature Service (WFS), providing you with seamless and intuitive access to spatial data from a variety of sources. Moreover, the application comes with the same (API) as OpenCities Map Advanced and OpenCities Map Ultimate. Therefore, it is possible to use OpenCities Map PowerView as a platform to run custom GIS applications developed with OpenCities Map Advanced or OpenCities Map Ultimate.

## Intelligent geospatial object creation and presentation capabilities

OpenCities Map PowerView includes advanced 2D design capabilities for creating and maintaining engineering-quality spatial data. Geospatial objects can be intelligently created with ease using interactive snapping capabilities.

OpenCities Map PowerView also includes dimensioning, annotation, raster display, printing, and publishing. Features are created by the administrator and include placement methods, properties, customized domain lists, and automatically generated input forms.

Projects created by the application have a simplified interface to quickly create complete and accurate geospatial objects. OpenCities Map PowerView also includes capabilities to create thematic map and annotation.

## Improved interoperability

You can leverage the capabilities of OpenCities Map PowerView to improve interoperability with other GIS formats. A variety of file formats can be directly referenced from the OpenCities Map PowerView interface, including GML, ArcGIS Server & ArcGIS Online, PostgreSQL (PostGIS), and WFS.

## Symbology synchronized with attribution

OpenCities Map PowerView has administrative capabilities to define features, attributes, symbology, behavior, and placement capabilities. Also, the software can promote simple geometry to intelligent features with full attribution. OpenCities Map PowerView ensures that feature symbology remains synchronized with attribution.

## System requirements

**Minimum:** Windows 11 (64-bit), Windows 10 (64-bit), Windows Server 2022, or Windows Server 2019, Intel or AMD processor 1.0 GHz or greater, 4 GB memory, 25 GB disk space
**Recommended:** 16 GB memory, up to 40 GB disk space

## OpenCities Map PowerView At-a-glance

### Mapping and GIS

- Compile and edit data efficiently
- Enforce business rules
- Bring CAD accuracy and ease of use to GIS
- Build and publish accurate maps and infrastructure models

### Microstation® capabilities

- Smart and fast drawing and editing of GIS features
- Raster management
- Display priority, transparency
- Coordinate system assignment and on-the-fly reprojection
- Clash detection
- Expressions
- Create Text Favorites with Item Type Properties

### Map manager

- Intuitive, easy-to-use, persistent map definitions
- Drag and drop layers to control display order
- Control all aspects of map display
- Automatic creation of thematic map from template

### XML feature modeling

- XML metadata-driven GIS
- Property-based symbology and annotation
- Convert simple elements to smart GIS features

### Geospatial administrator

- Manages the XFM framework through one interface
- Runs outside MicroStation
- Define and maintain XFM project files
- Define features, properties, and the capabilities used to build those features

### Choice of data stores

- Connection to spatial database
- Store data in self-contained XFM DGN files
- Use any RDBMS/DGN supported by MicroStation

### Geographic coordinate systems

- Define custom datum and ellipsoid

### Presentation

- Thematic display
- Dynamic labeling
- Automatic geolocation of features instances
- Direct database access (DDA) using the Data Browser

### Interoperability

- Spatial Databases read access (query)
  - ArcGIS Server & ArcGIS Online
  - PostgreSQL (PostGIS)
  - Oracle Spatial
  - SQL Server
- Spatial data streaming
- Web feature service (WFS) read access (query)
- Direct reference and import of geospatial formats

### Map generation and printing

- Publish to intelligent PDF, PostScript
- Solve integrity problems with imported or legacy data
- Easily adopt XFM schema for imported or legacy data through Dynamic Feature Scoring

### GIS platform

- Can execute Custom GIS applications developed with OpenCities Map Advanced or OpenCities Map Ultimate