

**Bentley**<sup>®</sup>  
Advancing Infrastructure

**CONNECT** Edition



## Orbit 3DM™ Content Manager CONNECT Edition

Optimize, Manage, Catalog, and Archive 3D Mapping Data

### Smart 3D Mapping

Orbit 3DM Content Manager enables data acquisition experts to access, update, and manage massive amounts of point cloud, imagery, textured mesh, and traditional GIS resources. You can ensure the accuracy and detail of your aboveground, belowground, or indoor reality data acquired from terrestrial, mobile, UAS, oblique, and aerial mapping systems. With templates tuned to each vehicle setup, Orbit 3DM Content Manager simplifies importing your 3D mapping data and saves time when exporting views or creating accurate reports. Hardware-neutral, Orbit 3DM Content Manager gives users a full 3D 360° view of the world by enabling the real-time fusion of various reality data resources of any size from any system.

### The CONNECT Edition

The SELECT<sup>®</sup> CONNECT Edition includes SELECT CONNECT services, new Azure-based services that provide comprehensive learning, mobility, and collaboration benefits to every Bentley application subscriber. Adaptive Learning Services helps you master use of Bentley applications through CONNECT Advisor, a new in-application service that provides contextual and personalized learning. Personal Mobility Services provides unlimited access to Bentley apps, ensuring you have access to the right project information when and where you need it. ProjectWise<sup>®</sup> Connection Services allows you to securely share application and project information, to manage and resolve issues, and to create, send, and receive transmittals, submittals, and RFIs.

### Manage, Catalog, and Archive Massive Amounts of Company-wide 3D Mapping Data

With Orbit 3DM Content Manager, you can easily optimize and manage massive amounts of reality data. You can quickly import and organize 3D mapping data of any size from any system, then easily view, merge, clean, correct, catalog, and archive terabytes of data. The application provides you with a comprehensive overview of all your available 3D mapping data, combined with imagery, vector, and raster mapping data.

### Optimize and Clean Point-cloud Data for Performance, Use, and Storage

You can efficiently clean point-cloud data before sharing mapping projects by removing ghosts. Orbit 3DM Content Manager helps you optimize image quality as well as analyze and report positional accuracy. Moreover, you can easily process colorized point-cloud data and create ortho images from point cloud and spherical imagery. By using the task manager, you can manage your data processing workflows and quickly consolidate the data before sharing with stakeholders.



*Upload and share 3D mapping data.*

### Enhance and Correct 3D Mapping Data Positional Accuracy

Orbit 3DM Content Manager enables you to analyze positional accuracy using ground control points. Accuracy is visualized on a timeline graph and colorized displays on maps. You can easily load ground control points and measure constraints to instantly preview and process the adjusted trajectory. Post-collection camera lever arm and boresight angles can be measured using point cloud reference data.

### Improve Point-cloud Quality

Orbit 3DM Content Manager allows you to clean up multiple passes, moving objects, and noise from your point clouds before consolidating or exporting them to share. You can remove people, move objects, and eliminate inconsistencies and other unwanted elements.

### Upload and Share 3D Mapping Data

Consolidated mobile mapping projects can be directly uploaded to Orbit 3DM Cloud, a cloud-based online platform, or delivered to Orbit 3DM Publisher, an on-premises solution, to share point clouds and imagery online.

## System Requirements

### Operating System

64 bit, Microsoft Windows 7 or higher

### Processor

Powerful CPU

### Graphics Card

Basic GPU with hardware acceleration

### Memory

8 GB to 16 GB

### Disk space

500 MB

### Screen Resolution

1920 x 1080 or higher

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## Orbit 3DM Content Manager At-A-Glance

- Analyze and correct positional accuracy of mapping data
- Catalog, correct, consolidate, merge, and archive mapping data
- Clean multiple passes of mapping data
- Clean noise and ghosts from point-cloud data
- Create 3D fly-through movies
- Display oblique and nadir images
- Display point-cloud, mesh, and vector data in full 3D view
- Display spherical images
- Georeferenced mapping data
- GIS vector data toolbox
- Import data of any size from any mapping system
- Load ground control points and measure constraints
- Measure points, lines, areas, and simple volumes
- Navigate mapping data in full 2D or 3D view
- Optimize and colorize point-cloud data
- Overlay vector data and point cloud on imagery
- Set skyline backdrops in 3D view
- Show footprints on reference view
- Show measurements by point cloud, mesh, dem, reference planes, and forward intersection
- Slice horizontally, vertically, and randomly
- Upload or prepare resources to 3DM Cloud and 3DM Publisher



*Process and colorize point-cloud data for sharing.*



*Manage massive amounts of company-wide 3D mapping data.*