Bentley Map Enterprise is a fully featured 3D GIS with the powerful editing capability of MicroStation. It is designed to address the unique needs of organizations that map, plan, design, build, and operate the world’s infrastructure. It has the capability to natively work with all common spatial data sources such as PostGIS, Oracle, Microsoft SQL Server Spatial, and many more. Bentley Map can add semantic information to the 3D reality mesh. Bentley Map also provides a complete SDK for developing custom GIS applications.

The CONNECT Edition
The SELECT® 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 users 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 users have access to the right project information when and where they need it. ProjectWise® Connection Services allow users to securely share application and project information, to manage and resolve issues, and to create, send, and receive transmittals, submittals, and RFIs.

Reality Data Processing
Bentley Map Enterprise allows you to integrate and process reality modeling data such as reality meshes, point clouds, scalable terrain models, and raster data for use in geospatial workflows.

Intelligent Geospatial Object Creation
Bentley Map Enterprise includes advanced 2D and 3D design productivity innovations to create and maintain engineering-quality spatial data. Geospatial objects can be intelligently created with ease using interactive snapping tools. Bentley Map Enterprise also includes dimensioning, annotation, raster display and editing, printing, publishing, and much more.

Spatial Analysis and Presentation
The software also includes a full collection of spatial analysis and presentation capabilities using 2D and 3D data. Among these are tools for creating buffers around objects, performing topology overlays, creating thematic maps, 3D collision detection, labeling, and more.

Improved Interoperability
Users can leverage the capabilities in Bentley Map Enterprise to improve interoperability with other GIS formats. They can directly reference from the Bentley Map Enterprise interface Esri SHP files, MapInfo TAB files, Oracle Spatial, PostGIS, ODBC, WMS, Google KML/KMZ, Esri File Geodatabase, 3D PDF, iModels, SQL Server Spatial, Bing Maps, and others. Data can also be exported into these formats and with other engineering disciplines. Moreover, Bentley Map Enterprise interfaces to FME from Safe Software, greatly extending interoperability.

Symbology Synchronized With Attribution
Bentley Map Enterprise has administrative functions to define features, attributes, symbology, behavior, and placement tools. It also includes functions to promote simple geometries to intelligent features with full attribution. The product ensures that feature symbology remains synchronized with attribution.

Reality Modeling Integration
Work in real-world digital context when you integrate 3D reality meshes of any scale using the 3SM format. Easily add Bentley Map semantic information to the 3D reality mesh using the classification feature. Improve team collaboration when you share and stream the 3D models across project teams and applications using CONNECT and ProjectWise ContextShare.

Field Access
Bentley Map offers support for the Bentley Map Mobile app for tablets and Bentley Map Mobile Publisher, which together provide mobile workers access to rich Bentley Map project information, allowing them to make better informed decisions when in the field.
Bentley Map Enterprise At-A-Glance

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

SQL Server Spatial Editing
- Two-tier direct connection
- 3D object support

PostGIS Editing
- Two-tier direct connection
- 3D object support

Reality Mesh Processing
- Display of very large, photo-textured reality meshes
- Editing of meshes (remove facets, fill holes)
- Ground and breakline extraction
- Efficient 3D modeling by using sections and templates
- Orthoimage extraction on any axis
- Reality mesh streaming
- Generation and manipulation of cross sections
- Mesh classification

Measurement Tools and Linear Adjustment
- Place points through radial or rectangular measurements from a baseline
- Create list of radial or rectangular staking measurements
- Perform linear adjustments on inaccurate data

Point-cloud Processing
- Drape and snap elements
- Classification editing
- Smart snap
- Visual explorer
- Batch tile export
- Export to POD, LAS, and XYZ files
- Extraction of lines, pipes and elbows
- Clash detection

Scalable Terrain Modeling (STM)
- High performance creation and display of very large digital terrain models
- High resolution image draping on STM
- Display modes: smooth shading with shadows, aspect angle, elevation, slope, contours
- STM synchronization with DGN, Civil DTM, point clouds, and XYZ files
- Calculate view shed from point or path

Presentation and Analysis
- Spatial, solar/shadow analysis
- Thematic display

Field Access Support
- Support for Bentley Map Mobile and Bentley Map Mobile Publisher.
- Android and iOS Tablets, Windows
- Fast access to large geospatial databases
- Easy to use with standard tablet-based gestures
- Simple query tools
- GPS integration
- Google Maps integration
- Apple Maps integration
- Disconnected, view-only operation for access without a network connection

* Only applies to direct data access (DDA) graphical source connections (e.g. Oracle Spatial, SQL Server, WFS, etc.).

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System Requirements

Operating System (64-bit)
- Windows 10, Windows 8.1
- Windows 8, Windows 7

Virtualized Environments
- Citrix XenDesktop 7.6 using Microsoft Windows Server 2012 R2

Processor
- Intel Pentium-based or AMD Athlon-based processor 2GHz or greater

Memory
- 1GB minimum, 2GB or more recommended (more memory typically results in better performance)

Connectivity
- Internet connectivity is required to use some of the features of the product and installation of software pre-requisites.

Disk Space
- 5GB minimum free disk space.

Find out about Bentley at: www.bentley.com

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5GB minimum free disk space.