Sanborn can tailor Prism4D solutions to suit the customization and integration needs for any size organization. The Prism4D product line offers three levels of software—Enterprise, Analyst, and Lite—each providing users the maximum flexibility to create, modify and control the system in a secured environment. The Enterprise version of the product is a client-server based system offering full functionality and integration capability. The viewer versions (Analyst/Lite) offer read-only capability with visualization functions. The user interface is a multi-pane approach displaying several views simultaneously.

Overview
Realistic environment master control application accessing and visualizing all spatial, temporal, tabular, and sensor outputs. Application supports decision making and urban-area command and control in real time and provides analysis to support operational goals. Using a single point to access many silo system inside an immersive realistic interface provides the most important information readily accessible for better decision with on-time results.

Product Basemap Input
Geospatially accurate (+/-1m) 3D urban landscape complete with structures, terrain, and other man-made and natural landscape features, together spatially enabled to attribute access, and query capability via point and click 2D/3D map views.

Features
- Simultaneous 2D and 3D data viewing and geospatial analysis
- Import ESRI vector data
- Import standard 3D building and terrain models
- Perform spatial and attribute queries
- Visibility analysis
- Display GPS tracking feeds: real-time and/or historic
- Ability to import custom real-time data inputs
- Full fly-through capabilities
Prism4D–Planning: Cities, counties and states rely on standard planning practices. Prism4D-Planning tools enhance the ability to communicate and collaborate among community entities, with tools to support multiple planning requirements through the visualization of the urban landscape.

Prism4D–Ports: Sanborn has created a complete solution for Seaports and Airports. The complete solution integrates various types of sensors and the related output into one seamless master command view.

Prism4D–Borders: Sanborn has created a turn-key application for border safety and security. An integrated visualization approach provides multiple views and advanced analysis. The multiple views and applications allow for planning, assessment and response for both training and real-time situations.

Prism4D–Security: Solution for law enforcement / emergency management visualization integrating multiple systems, such as Automated Vehicle Location (AVL), Integrated Incident Management (IMS) and IP camera systems.
**Benefits**
- Single point to a complete situational awareness of entire scene
- Merges all external sub-systems into one synchronized urban overview
- Realistic 3D urban landscape becomes interface to detailed civil, cultural, environmental, and customer specific applications
- Enabling sophisticated query capability accessing various attribute components linked together through visualized features
- Intelligent visualization of query results, complete with temporal overlay, 3D viewshed calculations, measurement, land use / land cover overlays
- Support long-term sustainable development activities within large urban centers by increasing access to facilities, resources, assets, and all other features

**Applications**
- Command Center solution for visualization and connectivity
- Threat & vulnerability assessment
- Large scale security event planning
- Port, airport security, or critical infrastructure planning and operations
- Site surveillance and security
- Tracking and Display of GPS feeds.
- Transportation Operations Centers (TOC)
- Fusion Center Data Interaction and Visualization

**Users**
- **Urban**: Police / Fire / Emergency Services / facilities and assets
- **Cultural**: College / University / High School Campus
- **National**: Coastal / Border / Air and Ports / CIP facilities and assets
- **Government**: Government / Services / Agency / collaboration

**Functionality**

**Analysis**
- Line of sight analysis (LOS)
- Radial line of sight analysis
- Spherical line of sight analysis
- Click-to-query feature attributes
- Asset placement and simulation

**Document management**
- Create spatial linkages between spatial objects and external documents, and inter/intranet sites.
- Create project scenario notes

**Collaborative Operations**
- Enable central warehouse for all projects
- Server side projects can be accessed by internal or external authorized users

**Query capability**
- Spatial proximity intersection and search
- Database drilldown connectivity

**Tracking**
- Display of automated tracking system info
- Display of GeoRSS feeds
- Display of IMS based events
- Display of geo-referenced server side video analytics

**Visualizations**
- View data in 2D or 3D and, or
- 2D and 3D linked views
- Threat-dome visualizations
- Point-to-Point Line of sight and Radial LOS
- 3D Fly-through and orbit
- Record events and playback functions

**Data**
- Import ESRI vector data
- ESRI SDE geometry
- Import common 3D terrain models
  (Openflight, 3DS, TXP)
- Oracle SDO geometry and X, Y, Z from RDBMS business tables

**Product Integration Components**
- Various sensors and monitor hardware, GPS-enabled devices and active vehicles, 3D map creation, and engineering support for database linkage and visualization representation.

**Integration Services**
- Geographic Information Systems (GIS)
- Automated vehicle location (AVL)
- Integrated Incident Management functionality (IMS)
- Emergency dispatch systems (E-911), and other systems
- 911 management, Call Taking/Dispatch
- Control and direct IP Camera systems, electronic fences, radars

**Data Creation Services**
- Acquisition, and photogrammetric GIS creation
- Photo-real texturing of 3D building models
- Digital surface terrain modeling
- Integration of existing in house data
- Export movies

**Support**
- Software updates
- 24 hour service available
- Installation and setup available
- Training available
- Additional maintenance support available

Sanborn Provides integrated turn-key solutions supporting ESRI and other GIS applications.

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**Sanborn Prism4D™ continued**

**Prism4D Software Key Visualization Features**

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<tr>
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<tbody>
<tr>
<td>2D &amp; 3D viewer</td>
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<tr>
<td>Attribute viewer</td>
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<tr>
<td>Fly-through and orbit</td>
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<tr>
<td>Visualizer LOS analysis</td>
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<tr>
<td>Line of sight analysis</td>
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<tr>
<td>Create new projects</td>
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<td>Record and playback functionality</td>
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<td>Interface with other IT subsystems</td>
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<tr>
<td>Visualize near real-time data sources (AVL)</td>
<td>✗</td>
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<tr>
<td>Visualize ESRI ArcSDE data sources</td>
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**NOTE:** A Lite Edition (LE) which functions as a viewer may be purchased with an enterprise installation. For smaller scale installations (1-9 persons) Analyst Edition (AE) is the typical installation. For larger, more robust and integrated command and control center installations Enterprise Edition of Prism4D, with multiple various numbers of LE and AE clients added-on is more suitable. Data not included.
Sanborn Prism4D Full Installation Schematic

**System Requirements**
- **Platform:** Intel x86
- **Operating Systems:** Microsoft Windows XP Professional, Microsoft Windows 2003 Server
- **Application Software:** Microsoft.Net Framework. Additional functionality obtained through ESRI ArcGIS Server and a 3rd-party RDBMS (eg. Oracle 10g RDBMS or Microsoft SQL Server 2000), can be obtained at an added cost for enterprise analyst installations. Such installations would not be performed on separate server-class hardware.

**CPU Speed:** 1.8GHz minimum, 3GHz recommended
**Memory:** 1GB minimum, 2GB recommended
**Graphics:** nVIDIA or other fully compliant OpenGL card, 128MB minimum, 512MB recommended. Specific video memory requirements are dependent upon number and complexity of both photo-realistic and generic textures, number of 3D models, etc.; video cards with less memory may reduce performance and/or functionality of 3D rendering.
**Video:** XGA or better resolution

**Available Disk Space:** Typical, 2GB. Disk space requirements are dependent upon the size and complexity of the 3D model, number and complexity of 2D layers, 3rd-party database storage requirements, attached documents, etc.

**How To Order**
To order Sanborn Prism4D software and solutions, contact Sanborn customer service at 1.866.SANBORN or e-mail information@sanborn.com. Taxes, shipping and handling fees apply.

**About Sanborn**
With a rich tradition of mapping dating back to 1866, Sanborn provides comprehensive end-to-end geospatial solutions. Sanborn offers products and services that satisfy diverse and evolving customer needs for GIS software systems, application development, systems integration, and spatial analysis and modeling. Leveraging precision remote sensing techniques, Sanborn also supports a wide range of applications and users. Sanborn’s solutions are founded on a strong legacy of innovative geospatial data collection and processing capabilities. An internationally recognized company, Sanborn has multiple U.S. offices with customers worldwide. For more information, visit www.sanborn.com.

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