SuperMap Component GIS is specially designed for GIS developers and programmers who want to quickly customize their own Desktop GIS applications (C/S structure). It provides all the general GIS modules with industrial standard components including COM, .NET and Java and comes with detailed programming reference book and a rich collection of sample codes.

**Features**

- **Reasonable Components Size and Easy to Develop**
  All SuperMap Component GIS Products are encapsulated into many different function controls, programmable objects, and interfaces. They are neither too big nor too small. The guide books are provided for reference also.

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**Development Platform for Customizing Desktop GIS Applications**

With Objects, you can choose required GIS components to customize your own Desktop GIS application in an easy and standard way, just like kids playing toy bricks. You only need to focus on your business logic and leave the GIS functionalities to SuperMap Objects.

**Extending Your SuperMap Desktop GIS and Service GIS Applications**

The SuperMap Desktop GIS and Service GIS are all built on the basis of SuperMap Component GIS. Developers can extend their Desktop GIS and Service GIS by developing with Component GIS.

**Deploying Applications with Your Own Product and Brand Name**

After developing with Component GIS SDK, you can package your applications with the corresponding Runtime libraries and deploy it to anyone you want with your own product and brand name.

**Integrating GIS Functionalities to Your Existing IT System Easily**

With SuperMap Component GIS, it’s easy to integrate GIS functions into other IT systems such as Management Information System (MIS), office automation System (OA), Enterprise Resources Planning system (ERP), and Supervisory Control And Data Acquisition system (SCADA) for some specific industrial areas, such as the petroleum industry or power industry.
Cross Platform with High Performance

The SuperMap Objects .NET/Java products are developed based on the SuperMap UGC technologies and developed with standard C++, thus they can support multiple OS with high performance, such as Windows, Linux and Unix.

High Quality and Flexible Map Outputting

The map output function in SuperMap Objects .NET/Java has been greatly improved. It supports the multi-process data access and multi-thread map outputting technology, it also supports outputting maps without graphic interfaces and outputting maps into PDF forms with layer information embedded.

Managing Massive Data at Low Cost

With built-in SuperMap SDX+ technology - avoiding additional costs and middleware, you can manage your spatial data with Oracle, SQL server, Sybase, DB2, MySQL Informix, etc. With the built-in SuperMap Image Tower (SIT) and Image Pyramid technique, no matter how large your imagery is, it can be displayed at any scale within a second.

High Scalability

Components in SuperMap Objects can work either independently or assembly, thus developers can develop either a large-scale GIS project with the entire components or a medium or small-sized GIS project with some of the components. The high scalable architecture allows developers to fully consider the factors of their GIS project, and then choose suitable components to reduce cost and risk.

Flexible Data Models

SuperMap Objects supports both GIS data or CAD data models and both topology-oriented or Objects-oriented data models. This offers more choices for data organization and eases the developing.

Independent Distribution

Applications developed with SuperMap Objects can be distributed and run independently without installing any other SuperMap GIS product. This will greatly simplify deployment and reduce distribution costs.

Extensible 2D Display

- Extensible thematic mapping function and symbolizing function
- Support for customizing thematic maps
- Support for representation

High Efficient Editing and Workspace Management

- Editing features with parameters
- Free drawing, interactive and automatic tracing
- A rich number of editing operations, such as mirroring and splitting
- Support for dataset versioning

Powerful 3D Module

- Loading 2D data directly in 3D scenes
- Displaying 3D terrain data on the globe in high resolution
- Support for operations including select, query, locate and measure in 3D scenes