SuperMap iServer Java is a cross-platform enterprise product that is specially designed for setting up GIS servers to share data and GIS capabilities based on the SOA architecture. It also provides multiple SDKs for GIS developers to quickly customize their own Web GIS applications, including JavaScript (HTML5), Silverlight, Flex, Realspace, etc.

**Features**

- Supports 3D service and 3D web application SDKs. Supports 2D&3D integration functions and map cache
- Cross-platform: Supports Windows, Linux and Unix(AIX)
- Fully supports 64-bit CPUs and operating systems. The maximum memory supported is 16EB(16 billion GB)
- Supports publishing and consuming OGC standard services such as WMS, WFS, WCS,WMTS, WFS-T, WPS, etc
- Supports server aggregation and client aggregation for GIS services like OGC services, GoogleMaps, BingMaps, OpenStreetMap, etc
- Supports hierarchical clustering technology which makes the clustering more stable and the fault tolerance higher
- Easy for extension development with open structure. Provides customization scheme for industry requirements. Provides extension APIs with REST SDK, Java SDK and .NET SDK

**Supports Multiple OS, Middleware and Databases**

<table>
<thead>
<tr>
<th>OS supported</th>
<th>Middleware supported</th>
<th>Databases supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Microsoft Windows series</td>
<td>• Apache Tomcat 6.0.x/7.0.x</td>
<td>• SQL Server 2000/2005/2008</td>
</tr>
<tr>
<td>• Red Hat Enterprise Linux 5.4 or above</td>
<td>• GlassFish 3.x</td>
<td>• Oracle 9/10g/11g</td>
</tr>
<tr>
<td>• Red Hat Enterprise Linux 6.x</td>
<td>• IBM WebSphere Application Server 7.0.0.11</td>
<td>• PostgreSQL 8.3 or above</td>
</tr>
<tr>
<td>• SUSE Linux Enterprise 10 SP2 or above</td>
<td>• Red Hat JBoss Application Server 4.2/5.1</td>
<td>...</td>
</tr>
<tr>
<td>• SUSE Linux Enterprise 11.x</td>
<td>• Red Hat JBoss Application Server 6.x/7.x</td>
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</tr>
<tr>
<td>• CentOS 5.6 or above</td>
<td>• Jetty 6.x/7 x/8.x</td>
<td></td>
</tr>
<tr>
<td>• CentOS 6.x</td>
<td>• Oracle WebLogic Application Server 10.3</td>
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<tr>
<td>• IBM AIX 5.3/6.1</td>
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</table>

**Strong and Complete Service Capabilities**

SuperMap iServer Java is enterprise GIS server software. It supports publishing OGC services such as WMTS, WMS, WFS, WCS, WPS, KML as well as SuperMap service in REST interface. The functionalities provided by iServer Java does not only include basic map and data functions, but also online editing and professional GIS analysis functions like bus transfer, network analysis, spatial analysis, etc. Besides 2D GIS service, iServer Java also provides 2D&3D integration services and 3D web SDK for development.
SuperMap iServer Java

Supports Aggregating Data from Different Sources Seamlessly

SuperMap Service GIS product supports service aggregation both on the client side and server side. The client and the server can aggregate services published by third parties conveniently without any programming knowledge. The supported map services for aggregation include SuperMap REST service, OGC map service, GoogleMaps, BingMaps, and OpenStreetMap. The supported data services for aggregation include SuperMap data service, WFS service, etc.

- Server-side Aggregation
- Client-side Aggregation

Supports Hierarchical Clustering Technology

The cluster technology is essential for enterprise GIS servers to increase the extensibility and availability. The unique iServer technology supports hierarchical cluster and heterogeneous cluster. It also has a redundant design, flexible level structure and security control to improve the stability and performance of the cluster.

- Improved availability: Fail-over mechanism that ensures the steady operation of the system in case of errors
- Reduced cost. To achieve the same performance, a cluster of several computers has lower price than a mainframe
- Improved performance. The performance is better with load balance

Supports Flexible Extension Capability

iServer Java enables more flexibility in the extension development of service. The domain spatial information services (DSS) provided by iServer Java allows users to build services for processing spatial information based on special business logics of their domains, such as a map service for wind direction symbols applied in the meteorology industry.

- Domain spatial service extension
  Provides core-level extension schemes for industry customization with GIS platform

- REST service extension
  Provides REST service extension schemes for Extending resources, Extending representation encoders, Extending parameter decoders, etc