SuperMap iPortal 8C Introduction

(Version: May, 2016. Updated based on SuperMap iPortal 8C SP2 new features)

Introduction

SuperMap iPortal 8C is a cloud calculation oriented GIS portal platform, which can integrate, query, share and manage GIS resources like maps, services, scenes and data, also can monitor multiple GIS servers to ensure the smooth operation of platform. Its portal customization and API extension development can help you build your own GIS portal site or private cloud portal.

Who needs SuperMap iPortal 8C?

- Units involved with construction and platform of geographic information sharing platform.
- Units involved with construction and application of GIS public or private cloud portal.
- Other government units or enterprises involved with construction of independent and unified resource management portal.

Why SuperMap iPortal 8C?

- Quick resource integration ability, can quickly organize and manage GIS resources like maps, services, scenes, data, applications in disperse, heterogeneous GIS servers.
- Embedded batch GIS service registration and automatic sync technology, making maintenance more convenient and intelligent.
- Embedded 3D viewing web app, realizing cross browser online query and view all the scenic resources in portal.
- Supports customizing the catalog according to business methods, greatly improved efficiency of querying.
- Supports access control for multi-source services, convenient to use, manage and maintenance multi-source services.
- Embedded group function, creating resource sharing and management mechanism in group.
- Portal customization and API extension development ability.

Editions

SuperMap iPortal provides standard, professional and advanced editions for different application types, needing different licenses. SuperMap iPortal 8C SP1 and versions above support independent deployment. Only need to SuperMap iPortal license, you can cooperatively use iPortal and iServer.
Function Matrix

Introduction

Different editions of SuperMap iPortal have the same functions, but different number of users of iPortal, different extension packages and SuperMap iServer licenses. Please see the table below.

<table>
<thead>
<tr>
<th>Edition</th>
<th>Standard</th>
<th>Professional</th>
<th>Advanced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whether contains SuperMap iServer license</td>
<td>Not contains, need extra charge</td>
<td>Contains iServer Professional Edition</td>
<td>Contains iServer Advanced Edition</td>
</tr>
<tr>
<td>Embedded users for registration</td>
<td>100</td>
<td>200</td>
<td>500</td>
</tr>
<tr>
<td>User extension packages (multiple purchases allowed)</td>
<td>10</td>
<td>20</td>
<td>100</td>
</tr>
</tbody>
</table>

Note: User extension package is a method to extend the number of user registrations. Mainly used for the situations when the embedded number of users cannot fulfill the needs, user extension package can be used to extend the number of user registrations.

Detailed function

SuperMap iPortal has the same functions in all the editions, detailed portal functions are introduced as below:

<table>
<thead>
<tr>
<th>Module</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS Resource Integration</td>
<td>Add map (Supports batch adding)</td>
</tr>
<tr>
<td></td>
<td>Register service (Supports batch registering)</td>
</tr>
<tr>
<td></td>
<td>Add scenes (Supports batch adding)</td>
</tr>
<tr>
<td></td>
<td>Host data</td>
</tr>
<tr>
<td></td>
<td>Host services</td>
</tr>
<tr>
<td></td>
<td>Register applications</td>
</tr>
<tr>
<td>GIS Resource Finding</td>
<td>Fuzzy search, classification filter, label filter, classification ordering.</td>
</tr>
<tr>
<td></td>
<td>Custom catalog filtering</td>
</tr>
<tr>
<td>GIS Resource Sharing</td>
<td>Map sharing</td>
</tr>
<tr>
<td></td>
<td>Service sharing</td>
</tr>
<tr>
<td></td>
<td>Scene sharing</td>
</tr>
<tr>
<td></td>
<td>Data sharing (Only supports REST API)</td>
</tr>
<tr>
<td></td>
<td>Access control ability for multi-source</td>
</tr>
<tr>
<td>GIS Resource Management</td>
<td>“My Content” management</td>
</tr>
<tr>
<td></td>
<td>My maps</td>
</tr>
<tr>
<td></td>
<td>My services</td>
</tr>
</tbody>
</table>
Environment Deployment

All the editions of SuperMap iPortal can deploy in 32bit, 64bit Window operation system and 64bit Linux operation system.

Product Features

1. Rich GIS Resource Integration Ability

- Supports integrating internal and external map service for online mapping.
  Supports setting mainstream map as base maps, supports online mapping using internal and external resources, default base map can be set as base map; Supports visualization selecting and custom adding base map. Supports web map overlay, including SuperMap RESTmap services, OGC (WMS and WMTS) services: Supports adding vector layer (SuperMap REST data service)
and dynamic vector layer (SuperMap REST temporal data service); Supports adding label layer and layer control.

You can collaboratively online edit and share resources from iPortal or external resources without installing desktop software.

- Supports batch registration service and automatic sync

Supports one-button registering all the services into SuperMap iPortal 8C, supports automatic synchronize services in SuperMap iServer.

- Registration service supports synchronously adding maps or scenes to resource list.
- Supports batch adding maps

Not only supports adding all the maps of single SuperMap iServer service to SuperMap iPortal map list, but also supports one-button adding all the maps of all the SuperMap iServer services to SuperMap iPortal map list.

- Supports batch adding scenes

Supports one-button adding SuperMap REST 3D services published by SuperMap iServer to SuperMap iPortal scene list.

- Supports online/ offline verifying registered services

Supports users registering external services in portal, including SuperMap REST services, OGC services (WMS, WMTS, WFS, WCS, WPS), ArcGIS REST services and other services, supports online/ offline verifying registered services.

- Supports hosting data

Supports users uploading local data to portal and publish as services, and supports configure the limit of user upload; supports updating and deleting published data files, can be downloaded from multiple terminals, downloading supports breakpoint transmitting.

- Supports hosting services

Supports distributing the data in iPortal to multiple SuperMap iServer servers.

2. Quick GIS Resource Finding Ability

- Supports quick positioning of map, service, scene, application through fuzzy searching, classification filtering, label filtering, classification ordering, etc.
- Supports custom configuration displaying catalog, administrators can classify maps, services, scenes according to business type, easier for users to query.

3. Flexible GIS Resource Sharing Ability

- Supported sharing range: private, public, designated users and groups.
- Multi-source service access control ability: registered multi-source service support proxy, iPortal as the unified exit of those services, providing unified proxy service address, easier to use, manage and maintenance for multi-source services.
4. Comprehensive GIS Resource Management Ability

- Supports managing resources created, registered or uploaded for ordinary users.
- Supports administrators manage all the resources in iPortal.
- Supports resource management as group.
- Supports hierarchic management

5. Complete GIS Server Management Ability

- Multi-node service host ability, solving the loading capacity of publishing service by single host server.
- Multiple GIS server monitoring ability, checking access status of GIS servers and services, helping users find and deal with malfunction of GIS server by alarming mechanism.

6. Personalized Customization and Extension Development Ability

- Supports page personalization setting through home page customization.
- Provides full functions of API interface, complete custom development description document and sample codes.