SuperMap iServer Java 2008
Installation Guide

SuperMap Software Co., Ltd.
China • Beijing
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SuperMap iServer Java is developed based on Java technology and SuperMap Objects Java, and is divided into server side and client side. The server side refers to the part that responds to the requirements of client sides and provides services for client sides. Generally speaking, the running environment of the software is on server side, which is controlled by the service provider; the client side refers to the software used by the end users that access internet, and the client side of SuperMap iServer Java includes various devices and software. In most cases, it is the browser. The client side of SuperMap iServer Java adopts standard HTML/JavaScript, and there is no need for the users to download plug-ins or other auxiliary software, no specific requirements for hardware and operating systems. Therefore, the system configuration requirements mentioned in this section mainly indicates the running environment of server side.

1 System Requirements

1.1 Hardware Requirements

To install SuperMap iServer Java, it is suggested that the hardware configuration should meet the minimum requirements below:

- CPU Frequency: 800MHz
- RAM: 512MB
- Free Disk Space: 20GB
- Network Card: Network Adapter
Display Card: 8M (with display card driver installed)

Recommended Hardware Configuration:
- CPU Frequency: 2.8GHz or higher, double CPU
- RAM: 1GB or higher
- Free Disk Space: 40GB or higher
- Network Card: 100M or higher Network Adapter
- Display Card: 64M or higher (with display card driver installed)

1.2 Software Requirements

Requirements for Operating Systems:
- Microsoft Windows 2000 (SP4 or later)
- Microsoft Windows XP (SP2 or later)
- Microsoft Windows Server 2003 (SP1 or later)
- Microsoft Windows Vista series
- Microsoft Windows Server 2008 series

Other Software Requirements:
- JDK 1.4 or later (JDK 6.0 is included in installation package)
- VC++ Redistributable Package (included in installation package)
2 Installation

2.1 Before Installation

2.1.1 How to Get Installation Package

There are two methods to obtain SuperMap iServer Java product installation package:

- After purchasing SuperMap iServer Java, you can get SuperMap iServer Java installation disk, and the installation package is included in the disk.
- By visiting our website: http://www.supermap.com, you can also get SuperMap iServer Java product installation package.

2.1.2 How to Get License

In order to get the product license of SuperMap iServer Java, please contact SuperMap Software Co., Ltd. Below is the contact information:

Tel: +86-10-82736655EXT4170

E-mail: request@supermap.com

2.2 Installation Steps

Before installation, please first check whether your computer fulfills the system requirements of SuperMap iServer Java, then you can install SuperMap iServer Java following the steps below:

1. Insert SuperMap iServer Java installation disk into CD-ROM driver (for example: G:/). If the system allows running CD automatically, then the installation interface will be displayed. Otherwise, you can find the installation directory of SuperMap iServer Java from the disk, and double-click “setup.exe”,

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then the installation interface will be displayed:

(2) Click **Next** to continue installation.
(3) In the **License Agreement** dialogue box below, please review the license agreement carefully. If you accept the agreement, please click "**I accept the terms in the license agreement**", then click **Next** If you do not accept the terms in the license agreement, please click **Cancel** to exit installation.

![License Agreement Dialogue Box]

(4) In the **Installation Setup Type** dialogue box, you can choose the setup type, and the default is **Complete**. Click **Next** to continue installing the software.

![Setup Type Dialogue Box]

(5) Then please select the installation path, and the system will give a de-
fault installation path. If you want to install SuperMap iServer in another directory, please click **Browse**, and select the installation path in the pop up dialogue box. Or you can type in the destination path in the textbox.

(6) Click **Install**.

**Note:** If you choose to install the software in the **Custom** mode, the following dialogue boxes will be displayed. And the customized installation will only install the functions checked. After installation, please click **Next**.
(7) The Setup Status window will show the status of installation. You can click Cancel if you want to cancel the installation.

(8) After installation, the system will prompt you to install VC++ 2005 redistributable package. If the system does not install VC compiling environment, namely the system does not have .NET Framework 2.0 or later version or Visual Studio 2005 or later version installed, please click Yes to install; Otherwise, please click No. (FAQ Error! Reference source not found.)
(9) Click **Finish** to finish the installation of SuperMap iServer Java 2008.

After the installation of SuperMap iServer Java 2008 is finished, the License Configuration window pops up. For more information about license configuration, please see Section 2.3.

### 2.3 License Configuration

The License Configuration tool can configure the licenses for the
SuperMap product series. For the Windows operating system, two types of license configurations are available: by license file and by hardware key.

After the license configuration is completed, a configuration file (SuperMapLic.ini) will be created in [System]\opt\SuperMap\License, which you can manage.

2.3.1 File License

Ensure that you have obtained the license from SuperMap Software Co., Ltd. before you start to configure.

(1) After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory the license.sh file is in, and input “sh license.sh.”), to open the License Configuration tool.

![License Configuration Tool](image1.png)

(2) Enter your computer name, company name and user name and find the .lic license file by clicking the button:
(3) Click **Verify** to check whether the license is valid; if so, the remark “Valid” will appear in the **State** column: (FAQ 3)

![License Configuration](image)

Note that the license is valid only when the computer name, company name and user name are consistent with that you provided to apply for the license.

(4) Click **Save** to save the current configuration information in the configuration file (SuperMapLic.ini).
Click Close to exit the License Configuration tool.

2.3.2 Hardware Key

Four kinds of hardware keys are available: the stand-alone key, the stand-alone time key, the net key and the net time key. The stand-alone key has only one license installed on the same computer that SuperMap iServer Java is installed on. The stand-alone time key is similar to the stand-alone key but with a time limit for use. The net key allows the software to be used by multiple licensed computers. You only need to install the net key license on any computer (called license server) within the network and the other computers in the same network are all licensed to use the software. The number of licensed computers is determined by the net key. The net time key is similar to the net key but with a time limit for use.

If the time key expires, you can apply to SuperMap Software Co., Ltd. to extend the time limit. The stand-alone key and the net key do not have any time limit, but note that you can’t change the system time of the licensed computer.

Before using the hardware key, you need to install the driver for
he key. Then you can plug the hardware key in the parallel port or the USB port of the licensed computer. For the net key and net time key, you must install the driver on the license server computer where the License Service must be configured. The path of the license service is: 

```plaintext
【SuperMap iServer Java Installation Directory】\support\Sentinel\skpi_install.sh
```

If any hardware key license service is available in the network, you can follow the steps below to configure the license:

1. After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory the license.sh is in, and input “sh license.sh.”), to open the License Configuration tool. Click the **Hardware Key** tab:

![Hardware Key tab](image)

2. Enter the name or IP address of the license server and select the product version for which you want to configure the license:
(3) Click **Query** and check the current license state. You can stop the querying by clicking **Stop** any time. The bottom of the dialog box shows the key type, user name and company name: (FAQ 3)

(4) Click **Save** to save the current configuration information in the configuration file (SuperMapLic.ini): (FAQ 4)
(5) Click Close to exit the License Configuration tool.

### 2.3.3 Configuration Management

You can use the Configuration Management tab to manage the configuration. Any changes made to the configuration will be updated correspondingly in the configuration file.

(1) On the Configuration Management tab, click Refresh, and the licensed SuperMap products as well as the License Mode, Expired Date, and other relevant information will be displayed:
(2) You can select any product and click **Delete** to delete the configuration for this product. The configuration file will be updated correspondingly.

(3) Click **Close** to exit the License Configuration tool.

### 2.4 Installation Directory Introduction

SuperMap iServer Java product installation directory is under **Destination**
Generally, after installing SuperMap iServer Java, your computer should have the following contents:

(1) Installation Directory

The installation directory should have the following 13 folders, and under the installation root, there should be three files: license.txt, readme.htm and What’s New.htm.

```
bin
data
demo
help
manager
output
samplecode
SDK
standardservices
SuperMapLCM
support
thirdparty
webservice
```

- **bin folder:** this folder is the core part of SuperMap iServer Java software, and generally it is suggested that you should not do any operation to the files in this folder in case your operation will cause iServer services can not work.

- **data folder:** sample data, it is used in SuperMap iServer Java Demo, Getting Started and sample programs.

- **demo folder:** demonstration projects provided by SuperMap iServer Java.

- **help folder:** the help documentation of SuperMap iServer Java is included in it.

- **manager folder:** SuperMap iServer Manager program.

- **output folder:** the default image output path.

- **samplecode folder:** sample program.
SDK folder: development kit for developers.

standardservices folder: provides the configuration and publication of WMS, WFS, KML and GeoRSS services.

SuperMapLCM folder: license configuration.

support folder: provides VC++ redistributable package and hardware key programs.

thirdparty folder: JDK (6.0) and Tomcat (5.5) provided by SuperMap iServer Java.

webservice folder: provides the configuration and publication of SuperMap WebService services.

(2) Start Menu Program

After installed SuperMap iServer Java, the related shortcut can be found in Start -> All Programs -> SuperMap -> SuperMap iServer Java 2008, and it includes shortcut of help documentation, sample websites, start and stop of iServer services, start and stop of Tomcat services, start and stop of cluster services, as shown below.

3 Uninstallation

The users can uninstall SuperMap iServer Java 2008 in Control Panel or by
running installation disk.

Note: There will be some files generated when the user uses SuperMap iServer Java, they will not be deleted during uninstallation, and you need to delete these files manually.

3.1 Uninstallation from Control Panel

(1) Click Start -> Control Panel to open the Control Panel.

(2) Double click Add or Remove Programs to open the Add or Remove Programs window.

(3) Click Change or Remove Programs icon on the left, and in the right Currently installed programs box select SuperMap iServer Java 2008 option;

(4) Click Delete, and then delete the product according to the wizard.

3.2 Uninstallation from Installation Disk

(1) After installed SuperMap iServer Java, you can insert the installation disk CD1 into the CD-ROM driver (for example, G:), and if the system allows to run the CD automatically, then the SuperMap iServer Java modification interface will be shown as below:
(2) Select **Remove**, and click **Next**. In the pop up dialogue box, click **Yes** to confirm uninstallation, and the uninstallation will be carried out.

(3) When the uninstallation is finished, the **Uninstall Complete** window will be pop up as shown below.
FAQ

Q: Why can't I use the License Configuration tool when I have already installed VC++ 2005 redistributable packages during the installation of SuperMap iServer Java?

A: The SuperMap License Configuration tool is dependent on VC++ 2008. Two VC++ redistributable packages, VC++ 2005 and VC++ 2008, are included in SuperMap iServer Java. The License Configuration tool has different requirements on the VC++ redistributable package based on the following cases:

(1) If you have installed neither .NET Framework 2.0 (or any of its higher version) nor Visual Studio 2005 (or any of its higher version), you must install both VC++ 2005 and VC++ 2008 redistributable package. For VC++ 2005, press Yes when prompted during the installation process of SuperMap iServer Java. For VC++ 2008, you should install it by running vcredist90_x86.exe located in 【SuperMap iServer Java installation directory】\support, after you have finished installing iServer Java.

(2) If you have installed either .NET Framework of any version between 2.0 and 3.5, or Visual Studio of any version between 2005 and 2008, you
don't need to install VC++ 2005 when prompted during the installation process of SuperMap iServer Java. But you must install VC++ 2008 redistributable package by running vcredist90_x86.exe located in 【SuperMap iServer Java installation directory】\support, after you have finished installing iServer Java.

(3) If you have installed either .NET Framework 3.5 (or any higher version), or Visual Studio 2008 (or any higher version), you don't need to install VC++ redistributable package.
SuperMap iServer Java is developed based on Java technology and SuperMap Objects Java, and is divided into server side and client side. The server side refers to the part that responds to the requirements of client sides and provides services for client sides. Generally speaking, the running environment of the software is on server side, which is controlled by the service provider; the client side refers to the software used by the end users that access internet, and the client side of SuperMap iServer Java includes various devices and software. In most cases, it is the browser. The client side of SuperMap iServer Java adopts standard HTML/JavaScript, and there is no need for the users to download plug-ins or other auxiliary software, no specific requirements for hardware and operating systems. Therefore, the system configuration requirements mentioned in this section mainly indicates the running environment of server side.

1 System Requirements

1.1 Hardware Requirements

To install SuperMap iServer Java, it is suggested that the hardware configuration should at least fulfill the requirements below:

- CPU Frequency: 800MHz or higher
- RAM: 512MB or higher
- Available Hard-disk Space: 20GB or higher
- Network Card: Network Adapter
- Display Card: 8M or higher (with display card driver install...
d) **Recommended Hardware Configuration:**
- CPU Frequency: 2.8GHz or higher, double CPU
- RAM: 1GB or higher
- Available Hard-disk Space: 40GB or higher
- Network Card: 100M or higher Network Adapter
- Display Card: 64M or higher (with display card driver installed)

1.2 **Software Requirements**

Core requirement:
- 2.6.0 or later version

Operating system requirements:
- Red Hat (Red Hat Enterprise Linux Advanced Server release
- SUSE (9, 10)
- Red Flag (4, 5)

Other software requirements:
- JDK 1.4 or later version (JDK 1.5 is included in installation package)

2 **Installation**

2.1 **Before Installation**

2.1.1 **How to Get Installation Package**

There are two methods to obtain SuperMap iServer Java product installation package:
After purchasing SuperMap iServer Java, you can get SuperMap iServer Java installation disk, and the installation package is included in the disk.

By visiting our website: http://www.supermap.com, you can also get SuperMap iServer Java product installation package.

2.1.2 How to Get License

In order to get the product license of SuperMap iServer Java, please contact SuperMap Software Co., Ltd. Below is the contact information:

Tel: +86-10-82736655EXT4170

E-mail: request@supermap.com

2.1.3 JDK Versions

To install SuperMap iServer Java 2008 Linux edition, you need JDK 1.4 or later version.

2.2 Installation Steps

SuperMap iServer Java 2008 Linux edition provides two types of product package: jar package and tar package.

2.2.1 Installation of jar Package

Before installation, please first check whether your computer fulfills the system requirements of SuperMap iServer Java, then you can install SuperMap iServer Java following the steps below (Here we take Red Hat Enterprise Linux Server release 5 for example).

1. Copy the obtained SuperMap iServer Java Linux edition to certain directory of your machine with Linux operating system, for example, under “/home/map/SupersMapiServerJava_Linux”. Then in the command line mode,
navigate to the installation directory, for example: “cd /home/map/SuperMapiServerJava/Linux”.

(2) In the command line mode, execute “java -jar setup.jar” (FAQ Error! Reference source not found.) to install SuperMap iServer Java 2008, and the installation interface shown below will be displayed. (FAQ Error! Reference source not found.)

(3) Click Next, and the End User License Agreement dialogue box will be displayed as shown below. Please read the End User License Agreement carefully. If you accept this agreement, please select I accept the terms in the license agreement, and click Next. If you do not accept the terms in the license agreement, please click Cancel to exit installation.
(4) In the window below, select the installation path. There is a default installation path, if you want to install SuperMap iServer Java to the other directory, click Browse, and select the installation path in the pop up dialogue box or you can also type in the path manually in the textbox.

(5) After specifying the installation path, click Next, and the following dialogue box will displayed.
(6) Select the installation type. SuperMap iServer Java provides two types of installation: Typical and Custom.

The default installation type is Typical, and if you choose the default one, click **Next**. The dialogue box below will be displayed to show the information such as the installation path, installation items, and required disk space, etc. Click **Install** to start installing the software.
If the user choose “Custom” type, and click **Next**. The following dialogue box will be displayed, and the user can select corresponding items to install according to the needs.

Click **Next**, and in the dialogue box below, information such as the installation path, installation items and the required disk space, etc. will be shown.

(7) Click **Install** to install the software, and the installation progress bar will be shown.
When the installation is finished, the License Configuration interface will be shown automatically. For more information about license configuration, please see Section 2.3.

2.2.2 Unzip tar Package

SuperMap iServer Java provides the tar package with gzip (GUN zip) compression property (tar.gz as the extension).

(1) Copy the obtained SuperMap iServer Java Linux edition to a certain directory of your machine with Linux operating system, for example, under "/home/map/SuperMapServerJava_Linux". Then in command line mode, navigate to the directory where .tar.gz file lies, for example: “cd /home/map/SuperMapServerJava_Linux”

(2) Execute the following command to unzip the package

```
tar -zxvf Filename.tar.gz
```

(3) License Configuration

The License Configuration interface will not pop up in this way, please refer...
2.3 License Configuration

The License Configuration tool can configure the licenses for the SuperMap product series. For the Linux operating system, two types of license configurations are available: By license file and by hardware key. After the license configuration is completed, a configuration file (SuperMapLic.ini) will be created in [System]:\opt\SuperMap\License, which you can manage.

2.3.1 File License

Ensure that you have obtained the license from SuperMap Software Co., Ltd. before you start to configure.

(1) After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory where the license.sh file is in, and input “sh license.sh.”), to open the License Configuration tool.
(2) Enter your computer name, company name and user name and find the .lic license file by clicking the button:

![Image of License Configuration window](image)

(3) Click **Verify** to check whether the license is valid; if so, the remark “Valid” will appear in the **State** column: (FAQ 3)

![Image of License Configuration window](image)

Note that the license is valid only when the computer name, company name and user name are consistent with that you provided to apply for the license.
(4) Click **Save** to save the current configuration information in the configuration file (SuperMapLic.ini). (FAQ Error! Reference source not found.)

![License Configuration Tool](image)

(5) Click **Close** to exit the License Configuration tool.

### 2.3.2 Hardware Key

Four kinds of hardware keys are available: the stand-alone key, the stand-alone time key, the net key and the net time key. The stand-alone key has only one license installed on the same computer that SuperMap iServer Java is installed on. The stand-alone time key is similar to the stand-alone key but with a time limit for use. The net key allows the software to be used by multiple licensed computers. You only need to install the net key license on any computer (called license server) within the network and the other computers in the same network are all licensed to use the software. The number of licensed computers is determined by the net key. The net time key is similar to the net key but with a time limit for use.

If the time key expires, you can apply to SuperMap Software Co.,
lt. to extend the time limit. The stand-alone key and the net key do not have any time limit, but note that you can’t change the system time of the licensed computer.

Before using the hardware key, you need to install the driver for the key. Then you can plug the hardware key in the parallel port or the USB port of the licensed computer. For the net key and net time key, you must install the driver on the license server computer where the License Service must be configured.

Driver: 【SuperMap iServer Java Installation Directory】\support\Aladdin\Runtime\RPM

License service: 【SuperMap iServer Java Installation Directory】\support\Aladdin\LM\RPM

If any hardware key license service is available in the network, you can follow the steps below to configure the license:

1. After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory the license.sh is in, and input “sh license.sh.”), to open the License Configuration tool. Click the **Hardware Key** tab:
(2) Enter the name or IP address of the license server and select the product version for which you want to configure the license:

(3) Click Query and check the current license state. You can stop the querying by clicking Stop any time. The bottom of the dialog box shows the key type, user name and company name: (FAQ 3)
(4) Click **Save** to save the current configuration information in the configuration file (SuperMapLic.ini): (FAQ Error! Reference source not found.)

(5) Click **Close** to exit the License Configuration tool.

**2.3.3 Configuration Management**

You can use the Configuration Management tab to manage the con
figuration. Any changes made to the configuration will be updated correspondingly in the configuration file.

(1) On the Configuration Management tab, click **Refresh**, and the licensed SuperMap products as well as the License Mode, Expired Date, and other relevant information will be displayed:

![License Configuration](image)

(2) You can select any product and click **Delete** to delete the configuration for this product. The configuration file will be updated correspondingly.
2.4 Configuration after Installation

After finishing installing SuperMap iServer Java product, you need to do some settings such as database configuration and environment variable settings, so that SuperMap iServer Java can work properly.

2.4.1 Configuration of Database Connection

The datasource type supported by SuperMap iServer Java is database datasource, so after installing the product, you need to do database configuration.

There should be database server in your network environment, if not, you need to install database, meanwhile, the database client should be installed on the machine where you deployed SuperMap iServer Java client side. Next, you can deploy the database connection on SuperMap iServer Java server side. Here we take Oracle database for example.

First, configure the local NET service name for database. Navigate to Oracle database network service configuration directory, for example,
“/oracle/10g/network/admin”, in the file “tnsnames.ora” under this directory, you can add your database connection configuration, including SERVICE_NAME, HOST and PORT.

For example:

```java
SuperMap =
  (DESCRIPTION =
   (ADDRESS_LIST =
    (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.115.92)(PORT = 1521))
   )
   (CONNECT_DATA =
    (SERVICE_NAME = SuperMap)
   )
  )
```

### 2.4.2 Environment Variables Settings

To use SuperMap iServer Java, environment variables settings should be done, including setting environment variables of database and that of SuperMap iServer Java.

Under SuperMap iServer Java installation directory, for example, “/home/map/SuperMapiServerJavaLinux”, you need to create a file, with the extension of “.profile”, and add the following contents in this file:

For example:

```bash
export ORACLE_HOME=[up directory of network folder under oracle installation directory]
export ORACLE_LIB=[lib folder under oracle installations directory]
export LD_LIBRARY_PATH=/usr/lib:[SuperMap iServer Java installation directory]/bin:$ORACLE_LIB
export UGCROOT=[SuperMap iServer Java installation directory]/support
export NLS_LANG=AMERICAN_AMERICA.ZHS16GBK
```
Note: ORACLE_HOME should be set to the directory one level up to “network” folder under oracle installation directory, for example, if the directory of “network” is “/oracle/10g/network”, is should be set to “ORACLE_HOME=/oracle/10g”. ORACLE_LIB should be set to the up folder of “lib” folder under oracle installation directory, for example, if the directory of “lib” folder is “/usr/lib/oracle/10.0.0.2/client/lib”, it should set to “ORACLE_LIB=/usr/lib/oracle/10.0.0.2/client/lib”.

After finishing setting the environment variables, execute “source .profile” command to have the environment variables take effect.

You can use “echo” command to check whether the environment variables have set successfully, for example, “echo $LD_LIBRARY_PATH”, or using “env” command to view the settings of all the environment variables.

2.5 Installation Directory

After finishing the installation and license configuration of SuperMap iServer Java 2008, there should be 14 folders under installation directory, and also other three files including “license.txt”, “readme.htm” and “What's New.htm”.
bin folder: this folder is the core part of SuperMap iServer Java software, and generally it is suggested that you should not do any operation to the files in this folder in case your operation will cause iServer services can not work.

data folder: sample data, it is used in SuperMap iServer Java Demo, Getting Started and sample programs.

demo folder: demonstration projects provided by SuperMap iServer Java.

help folder: the help documentation of SuperMap iServer Java is included in it.

manager folder: SuperMap iServer Manager program.

output folder: the default image output path.

samplecode folder: sample program.

SDK folder: development kit for developers.

standardservices folder: provides the configuration and publication of WMS,
WFS, KML and GeoRSS services.

SuperMapLCM folder: license configuration management tool.

support folder: includes font library and hardware key programs.

thirdparty folder: JDK (6.0)and Tomcat (5.5) provided by SuperMap iServer Java.

_uninst folder: uninstallation file.

webservice folder: provides the configuration and publication of SuperMap WebService services.

3 Uninstallation

3.1 Uninstallation of jar Package

Navigate to the directory of the program folder you want to uninstall, type in the command in the command line, for example: “cd /home/map/SuperMapiServerJava2008/_uninst”, then execute “java -jar uninstall.jar” to uninstall the program.

Note: There will be some files generated when the user uses SuperMap iServer Java, they will not be deleted during uninstallation, and you need to delete these files manually.

(1) Execute the uninstalling command.

(2) Click Next, in the dialogue box below, select the items to be uninstalled.
(3) Click **Next**, the uninstallation summary information will be shown, as shown below.

(4) Click **Uninstall** to uninstall SuperMap iServer Java 2008 product.

### 3.2 Uninstallation of tar Package

You can delete SuperMap iServer Java directory directly.

### 4 FAQ

1. Q: Why did I fail to install SuperMap iServer Java 2008 by executing 
   "java -jar setup.jar"? 

---

*SuperMap iServer Java 2008 Installation Guide*
A:
1. Make sure you have installed JDK;
2. Set the Java environment variables. For example, if the installation path for JDK is: /usr/java, set as follows:

   ```
   export JAVA_HOME=/usr/java
   export PATH=$JAVA_HOME/bin:$PATH
   ```
3. Make sure you are using JDK 1.4 or higher versions. Try the following command to check the JDK version you are using:

   ```
   java -version
   ```

2. Q: Why can’t the Chinese characters display properly on the install interface of SuperMap iServer Java?
   A: The Chinese character set file is required in the JDK when you install SuperMap iServer Java Linux Chinese Version by executing “java -jar setup.jar”.

3. Q: Why do the following messages display when I click Verify on the License File tab (or click Query on the Hardware Key tab) in the License Configuration dialog: “java.io.FileNotFoundException: /opt/SuperMap/License/SuperMapLic.ini (Permission denied)” and “chmod: Change ‘/opt/SuperMap/License/SuperMapLic_U.ini’ authority: Permission denied”?
   A: When you configure the license for SuperMap iServer Java, a license file SuperMapLic_U.ini will be created in …/opt/SuperMap/License SuperMapLic_U.ini and the configuration information will be written in this file. So you must have the permissions to write to the /opt directory. Use the following command to check the permissions on the /opt/SuperMap/License directory and files: ls –al /opt/SuperMap/License. If “drwxr-xr-x” appears, it indicates only the owner of the directory has the write permissions. In this case, you should configure the license under the ROOT user in the following ways: execute “sh license.sh .” to start the Li-
license Configuration tool; or use the chmod command to change write permissions to all users and then configure; if SuperMapLic_U.ini file has no write permissions, you still need to change the permissions using chmod.

4. Q: Why does the problem mentioned in Q3 occur when I click Save in the License Configuration tool?
A: See the answer for Q3.

5. Q: Why do the following messages appear when start.sh fails to start the GIS server?
SuperMap iServer Java is developed based on Java technology and SuperMap Objects Java, and is divided into server side and client side. The server side refers to the part that responds to the requirements of client sides and provides services for client sides. Generally speaking, the running environment of the software is on server side, which is controlled by the service provider; the client side refers to the software used by the end users that access internet, and the client side of SuperMap iServer Java includes various devices and software. In most cases, it is the browser. The client side of SuperMap iServer Java adopts standard HTML/JavaScript, and there is no need for the users to download plug-ins or other auxiliary software, no specific requirements for hardware and operating systems. Therefore, the system configuration requirements mentioned in this section mainly indicates the running environment of server side.

1 System Requirements

1.1 Hardware Requirements

To install SuperMap iServer Java, it is suggested that the hardware configuration should at least fulfill the requirements below:

- CPU Frequency: 600MHz or higher
- RAM: 512MB or higher
- Available Hard-disk Space: 20GB or higher
- Network Card: Network Adapter
- Display Card: 8M or higher (with display card driver installe
Recommended Hardware Configuration:
- CPU Frequency: 2.1GHz or higher
- RAM: 1GB or higher
- Available hard-disk Space: 40GB or higher
- Network Card: 100M or higher Network Adapter
- Display Card: 64M or higher (with display card driver installed)

1.2 Software Requirements

Operating system requirement:
- Solaris 10 or later version

Other software requirement:
- JDK 1.4 or later version (JDK 1.5 is included in installation package)

2 Installation

2.1 Before Installation

2.1.1 How to Get Installation Package

There are two methods to obtain SuperMap iServer Java product installation package:
- After purchasing SuperMap iServer Java, you can get SuperMap iServer Java installation disk, and the installation package is included in the disk.
- By visiting our website: http://www.supermap.com, you can also get SuperMap iServer Java product installation package.
2.1.2 How to Get License

In order to get the product license of SuperMap iServer Java, please contact SuperMap Software Co., Ltd. Below is the contact information:

Tel: +86-10-82736655EXT4170

E-mail: request@supermap.com

2.1.3 JDK Version

To install SuperMap iServer Java 2008 Solaris Edition, you need JDK 1.4 or later version.

2.2 Installation Steps


2.2.1 Installation of jar Package

Before installation, please first check whether your computer fulfills the system requirements of SuperMap iServer Java, then you can install SuperMap iServer Java following the steps below (Here we take Solaris 10 for example).

(5) Copy the obtained SuperMap iServer Java Solaris Edition to certain directory of your machine with Solaris operating system, for example, under “/home/map/SuperMapiServerJava_Solaris”. Then in command line mode, navigate to the installation directory, for example: “cd /home/map/SuperMapiServerJava_Solaris”.

(6) In command line mode, execute “java -jar setup.jar” (FAQ Error! Reference source not found.) to install SuperMap iServer Java 2008, and the installation interface shown below will be displayed. (FAQ Error! Reference source not found.)
(7) Click **Next**, and the End User License Agreement dialogue box will be displayed as shown below. Please read the End User License Agreement carefully. If you accept this agreement, please select **I accept the terms in the license agreement**, and click **Next**. If you do not accept the terms in the license agreement, please click **Cancel** to exit installation.

(8) In the window below, select the installation path. There is a default installation path, if you want to install SuperMap iServer Java to the other directory,
click **Browse**, and select the installation path in the pop up dialogue box or you can also type in the path manually in the textbox.

(9) After specifying the installation path, click **Next**, and the following dialogue box will displayed.

(10) Select the installation type. SuperMap iServer Java provides two types
The default installation type is Typical, and if you choose the default one, click Next. The dialogue box below will be displayed to show the information such as the installation path, installation items, and required disk space, etc.

Click **Install** to start install the software, and the installation progress bar will be shown.

If the user choose “**Custom**” type, and click **Next**. The following dialogue box will be displayed, and the user can select corresponding items to install according to the needs.
Click **Next**, and in the dialogue box below, information such as the installation path, installation items and the required disk space, etc. will be shown.

(11) Click **Install** to install the software, and the installation progress bar will be shown.
(12) When the installation is finished, the License Configuration interface will be shown automatically. For more information about license configuration, please see section *Error! Reference source not found.*.

### 2.2.2 Unzip tar Package

SuperMap iServer Java provides the tar package with gzip (GUN zip) compression property (tar.gz as the extension).

1. Copy the obtained SuperMap iServer Java Solaris Edition to certain directory of your machine with Solaris operating system, for example, under “/home/map/SuperMapiServerJava_Solaris”. Then in command line mode, navigate to the directory where .tar.gz file lies, for example: “cd /home/map/SuperMapiServerJava_Solaris”.

2. Execute the following command to unzip the package:

```bash
gunzip file name.tar.gz
```

```bash
tar -xvf file name.tar
```

Or:

```bash
gunzip file name.tar.gz
```

```bash
tar -xvf file name.tar
```
(3) License Configuration

The License Configuration interface will not pop up in this way, please refer to Error! Reference source not found. about how to run License Configuration management tool manually.

2.3 License Configuration

The License Configuration tool can configure the licenses for the SuperMap product series. For the Solaris operating system, only one type of license configuration is available: By license file. After the license configuration is completed, a configuration file (SuperMapLic.ini) will be created in [System]\opt\SuperMap\License, which you can manage.

2.3.1 File License

Ensure that you have obtained the license for SuperMap iServer Java before you start to configure.

(1) After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory the license.sh file is in, and input “sh license.sh”), to open the License Configuration tool.
(2) Enter your computer name, company name and user name and find the .lic license file by clicking the button:

![Image of license configuration dialog]

(3) Click Verify to check whether the license is valid; if so, the remark “Valid” will appear in the State column: (FAQ 3)
Note that the license is valid only when the computer name, company name and user name are consistent with that you provided to apply for the license.

(4) Click **Save** to save the current configuration information in the configuration file (SuperMapLic.ini). (FAQ **Error! Reference source not found.**)

(5) Click **Close** to exit the License Configuration tool.

### 2.3.2 Configuration Management

You can use the Configuration Management tab to manage the configuration. Any changes made to the configuration will be updated correspondingly in the configuration file.

(1) On the Configuration Management tab, click **Refresh**, and the licensed SuperMap products as well as the License Mode, Expired Date, and other relevant information will be displayed:
(2) You can select any product and click **Delete** to delete the configuration for this product. The configuration file will be updated correspondingly.

(3) Click **Close** to exit the License Configuration tool.

### 2.4 Configuration after Installation

After finishing installing SuperMap iServer Java product, you need to do some settings such as database configuration and environment variable settings, so that SuperMap iServer Java can work properly.

#### 2.4.1 Configuration of Database Connection

The datasource type supported by SuperMap iServer Java is database datasource, so after installing the product, you need to do database configuration.

There should be database server in your network environment, if not, you need to install database, meanwhile, the database client should be installed on the machine where you deployed SuperMap iServer Java client side. Next, you can
deploy the database connection on SuperMap iServer Java server side. Here we take Oracle database for example.

First, configure the local NET service name for database. Navigate to Oracle database network service configuration directory, for example, “/oracle/10g/network/admin”, in the file “tnsnames.ora” under this directory, you can add your database connection configuration, including SERVICE_NAME, HOST and PORT.

For example:

```sql
SuperMap =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.115.92)(PORT = 1521))
    )
    (CONNECT_DATA =
      (SERVICE_NAME = SuperMap)
    )
  )
```

2.4.2 Environment Variables Settings

To use SuperMap iServer Java, environment variables settings should be done, including setting environment variables of database and that of SuperMap iServer Java.

Under SuperMap iServer Java installation directory, for example, “/home/map/SuperMapiServerJava_Linux”, you need to create a file, with the extension of “.profile”, and add the following contents in this file:

For example:

```bash
export ORACLE_HOME=【up directory of network folder under oracle installation directory】
export ORACLE_LIB=【lib folder under oracle installat"
ions directory】
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/lib:
【SuperMap iServer Java installation directory】/bin:$ORACLE_LIB
export UGCROOT=【SuperMap iServer Java installation directory】/support
export NLS_LANG=AMERICAN_AMERICA.ZHS16GBK

Note: ORACLE_HOME should be set to the directory one level up to “network” folder under oracle installation directory, for example, if the directory of “network” is “/oracle/10g/network”, is should be set to “ORACLE_HOME=/oracle/10g”. ORACLE_LIB should be set to the up folder of “lib” folder under oracle installation directory, for example, if the directory of “lib” folder is “/usr/lib/oracle/10.0.0.2/client/lib”, it should set to “ORACLE_LIB=/usr/lib/oracle/10.0.0.2/client/lib”.

After finishing setting the environment variables, execute “source .profile” command to have the environment variables take effect.

You can use “echo” command to check whether the environment variables have set successfully, for example, “echo $LD_LIBRARY_PATH”, or using “env” command to view the settings of all the environment variables.

2.5 Installation Directory

After finishing the installation and license configuration of SuperMap iServer Java 2008, there should be 14 folders under installation directory, and also other three files including “license.txt”, “readme.htm” and “What's New.htm”.
bin folder: this folder is the core part of SuperMap iServer Java software, and generally it is suggested that you should not do any operation to the files in this folder in case your operation will cause iServer services can not work.

data folder: sample data, it is used in SuperMap iServer Java Demo, Getting Started and sample programs.

demo folder: demonstration projects provided by SuperMap iServer Java.

help folder: the help documentation of SuperMap iServer Java is included in it.

manager folder: SuperMap iServer Manager program.

output folder: the default image output path.

samplecode folder: sample program.
SDK folder: development kit for developers.

standardservices folder: provides the configuration and publication of WMS, WFS, KML and GeoRSS services.

SuperMapLCM folder: license configuration management tool.

support folder: includes font library.

thirdparty folder: JDK (6.0) and Tomcat (5.5) provided by SuperMap iServer Java.

_uninst folder: uninstallation file.

webservice folder: provides the configuration and publication of SuperMap WebService services.

3 Uninstallation

3.1 Uninstallation of jar Package

Navigate to the directory of the program folder you want to uninstall, type in the command in the command line, for example: “cd /home/map/SuperMapServerJava2008/_uninst”, then execute “java -jar uninstall.jar” to uninstall the program.

**Note:** There will be some files generated when the user uses SuperMap iServer Java, they will not be deleted during uninstallation, and you need to delete these files manually.

1. Execute the uninstalling command.

2. Click **Next**, in the dialogue box below, select the items to be uninstalled.
(3) Click **Next**, the uninstallation summary information will be shown, as shown below.

(4) Click **Uninstall** to uninstall SuperMap iServer Java 2008 product.

### 3.2 Uninstallation of tar Package

You can delete SuperMap iServer Java directory directly.

### 4 FAQ

1. Q: Why did I fail to install SuperMap iServer Java 2008 by executing “java -jar setup.jar”?
A:

1. Make sure you have installed JDK;
2. Set the Java environment variables. For example, if the installation path for JDK is: /usr/java, set as follows:

```bash
export JAVA_HOME=/usr/java
export PATH=$JAVA_HOME/bin:$PATH
```
3. Make sure you are using JDK 1.4 or higher versions. Try the following command to check the JDK version you are using:

```bash
java -version
```

2. Q: Why can’t the Chinese characters display properly on the install interface of SuperMap iServer Java?

A: The Chinese character set file is required in the JDK when you install SuperMap iServer Java Linux Chinese Version by executing “java -jar setup.jar”.

3. Q: Why do the following messages display when I click Verify on the License File tab (or click Query on the Hardware Key tab) in the License Configuration dialog: “java.io.FileNotFoundException: /opt/SuperMap/License/SuperMapLic.ini (Permission denied)” and “chmod: Change ‘/opt/SuperMap/License/SuperMapLic_U.ini’ authority: Permission denied”?

A: When you configure the license for SuperMap iServer Java, a license file SuperMapLic_U.ini will be created in `/opt/SuperMap/License` and the configuration information will be written in this file. You must have the permissions to write to the `/opt` directory. Use the following command to check the permissions on the `/opt/SuperMap/License` directory and files: `ls -al /opt/SuperMap/License`. If “drwxr-xr-x” appears, it indicates only the owner of the directory has the write permissions. In this case, you should configure the license under the ROOT user in the following ways: execute “sh license.sh .” to start the Li-
cense Configuration tool; or use the chmod command to change write permissions to all users and then configure; if SuperMapLic_U.ini file has no write permissions, you still need to change the permissions using chmod.

4. Q: Why does the problem mentioned in Q3 occur when I click Save in the License Configuration tool?
A: See the answer for Q3.

5. Q: Why do the following messages appear when start.sh fails to start the GIS server?
SuperMap iServer Java is developed based on Java technology and SuperMap Objects Java, and is divided into server side and client side. The server side refers to the part that responds to the requirements of client sides and provides services for client sides. Generally speaking, the running environment of the software is on server side, which is controlled by the service provider; the client side refers to the software used by the end users that access internet, and the client side of SuperMap iServer Java includes various devices and software. In most cases, it is the browser. The client side of SuperMap iServer Java adopts standard HTML/JavaScript, and there is no need for the users to download plug-ins or other auxiliary software, no specific requirements for hardware and operating systems. Therefore, the system configuration requirements mentioned in this section mainly indicates the running environment of server side.

1 System Requirements

1.1 Hardware Requirements

To install SuperMap iServer Java, it is suggested that the hardware configuration should at least fulfill the requirements below:

- CPU Frequency: 600MHz or higher
- RAM: 512MB or higher
- Available Hard-disk Space: 20GB or higher
- Network Card: Network Adapter
- Display Card: 8M or higher (with display card driver installe
d) **Recommended Hardware Configuration:**

- CPU Frequency: 2.1GHz or higher
- RAM: 1GB or higher
- Available hard-disk Space: 40GB or higher
- Network Card: 100M or higher Network Adapter
- Display Card: 64M or higher (with display card driver installed)

1.2 **Software Requirements**

Operating system requirements:

- AIX 5.3 or later version

Other software requirements:

- JDK 1.4 or later version (JDK 1.5 is included in the installation package)

2 **Installation**

2.1 **Before Installation**

2.1.1 **How to Get Installation Package**

There are two methods to obtain SuperMap iServer Java product installation package:

- After purchasing SuperMap iServer Java, you can get SuperMap iServer Java installation disk, and the installation package is included in the disk.
- By visiting our website: [http://www.supermap.com](http://www.supermap.com), you can also get SuperMap iServer Java product installation package.
2.1.2 How to Get License

In order to get the product license of SuperMap iServer Java, please contact SuperMap Software Co., Ltd. Below is the contact information:

Tel: +86-10-82736655EXT4170

E-mail: request@supermap.com

2.1.3 JDK Version

To install SuperMap iServer Java 2008 AIX, JDK 1.4 or later version is needed.

2.2 Installation Steps


2.2.1 Installation of jar Package

Before installation, please first check whether your computer fulfills the system requirements of SuperMap iServer Java, then you can install SuperMap iServer Java following the steps below (Here we take AIX 5.3 for example).

(1) Copy the obtained SuperMap iServer Java AIX Edition to certain directory of your machine with AIX operating system, for example, under “/home/map/SuperMapiServerJava_AIX”. Then in command line mode, navigate to the installation directory, for example: “cd /home/map/SuperMapiServerJava_AIX”.

(2) In command line mode, execute “java -jar setup.jar” (FAQ Error! Reference source not found.) to install SuperMap iServer Java 2008, and the installation interface shown below will be displayed.(FAQ Error! Reference source not found.)
(3) Click Next, and the End User License Agreement dialogue box will be displayed as shown below. Please read the End User License Agreement carefully. If you accept this agreement, please select **I accept the terms in the license agreement**, and click Next. If you do not accept the terms in the license agreement, please click Cancel to exit installation.

(4) In the window below, select the installation path. There is a default installation path, if you want to install SuperMap iServer Java to the other directory, click Browse, and select the installation path in the pop up dialogue box or you can also type in the path manually in the textbox.
(5) After specifying the installation path, click **Next**, and the following dialogue box will be displayed.

(6) Select the installation type. SuperMap iServer Java provides two types of installation: Typical and Custom.

The default installation type is Typical, and if you choose the default one, click **Next**. The dialogue box below will be displayed to show the information such as the installation path, installation items, and required disk space, etc.
Click **Install** to start installing the software, and the installation progress bar will be shown.

If the user choose “Custom” type, and click **Next**. The following dialogue box will be displayed, and the user can select corresponding items to install according to the needs.

Click **Next**, and in the dialogue box below, information such as the installation path, installation items and the required disk space, etc. will be shown.

(7) **Install** to install the software, and the installation progress bar will be shown.
When the installation is finished, the License Configuration interface will be shown automatically. For more information about license configuration, please see section Error! Reference source not found..

2.2.2 Unzip tar Package

SuperMap iServer Java provides the tar package with gzip (GUN zip) compression property (tar.gz as the extension).

1. Copy the obtained SuperMap iServer Java AIX Edition to certain directory of your machine with AIX operating system, for example, under "/home/map/SuperMapiServerJava_AIX". Then in command line mode, navigate to the directory where .tar.gz file lies, for example: “cd /home/map/SuperMapiServerJava_AIX”.

2. Execute the following command to unzip the package:

```
gunzip filename.tar.gz
tar -xvf filename.tar
```

Or:
(3) License Configuration

The License Configuration interface will not pop up in this way, please refer to Error! Reference source not found. about how to run License Configuration management tool manually.

2.3 License Configuration

The License Configuration tool can configure the licenses for the SuperMap product series. For the AIX operating system, only one type of license configuration is available: By license file. After the license configuration is completed, a configuration file (SuperMapLic.ini) will be created in [System]:\opt\SuperMap\License, which you can manage.

2.3.1 File License

Ensure that you have obtained the license for SuperMap iServer Java before you start to configure.

(1) After you finish installing SuperMap iServer Java from the jar package, the License Configuration tool will run automatically. Also, you may also run the license.sh file in the SuperMapLCM folder under the installation directory (from the command line, go to the directory the license.sh file is in, and input "sh license.sh "), to open the License Configuration tool.
(2) Enter your computer name, company name and user name and find the .lic license file by clicking the button:
(3) Click **Verify** to check whether the license is valid; if so, the remark “Valid” will appear in the **State** column: (FAQ 3)
Note that the license is valid only when the computer name, company name and user name are consistent with that you provided to apply for the license.

(4) Click the Save to save the current configuration information in the configuration file (SuperMapLic.ini). (FAQ Error! Reference source not found.)

(5) Click Close to exit the License Configuration tool.

### 2.3.2 Configuration Management

You can use the Configuration Management tab to manage the configuration. Any changes made to the configuration will be updated correspondingly in the configuration file.

(1) On the Configuration Management tab, click Refresh, and the licensed SuperMap products as well as the License Mode, Expired Date, and other relevant information will be displayed:

![License Configuration Table]

<table>
<thead>
<tr>
<th>Product</th>
<th>License Mode</th>
<th>Start Date</th>
<th>Expired Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ObjectCoreDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectCoreRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectSDKDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectGDIRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectSpaceDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectSpaceRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectLayoutDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectLayoutRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectSpaceDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectSpaceRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectNetworkDeveloper</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectNetworkRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectTopologyDevelop</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
<tr>
<td>ObjectTopologyRuntime</td>
<td>Compute</td>
<td>2008-06-02</td>
<td>2010-02</td>
</tr>
</tbody>
</table>
(2) You can select any product and click **Delete** to delete the configuration for this product. The configuration file will be updated correspondingly.

(3) Click **Close** to exit the License Configuration tool.

### 2.4 Configuration after Installation

After finishing installing SuperMap iServer Java product, you need to do some settings such as database configuration and environment variables settings, so that SuperMap iServer Java can work properly.

#### 2.4.1 Configuration of Database Connection

The datasource type supported by SuperMap iServer Java is database datasource, so after installing the product, you need to do database configuration.

There should be database server in your network environment, if not, you need to install database, meanwhile, the database client should be installed on the
machine where you deployed SuperMap iServer Java client side. Next, you can deploy the database connection on SuperMap iServer Java server side. Here we take Oracle database for example.

First, configure the local NET service name for database. Navigate to Oracle database network service configuration directory, for example, "/oracle/10g/network/admin", in the file “tnsnames.ora” under this directory, you can add your database connection configuration, including SERVICE_NAME, HOST and PORT.

For example:

```
SuperMap =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP)(HOST = 192.168.115.92)(PORT = 1521))
    )
  (CONNECT_DATA =
    (SERVICE_NAME = SuperMap)
  )
```

### 2.4.2 Environment Variables Settings

To use SuperMap iServer Java, environment variables settings should be done, including setting environment variables of database and that of SuperMap iServer Java.

Under SuperMap iServer Java installation directory, for example, “/home/map/SuperMapiServerJava/Linux”, you need to create a file, with the extension of “.profile”, and add the following contents in this file:

For example:

```
export ORACLE_HOME=【up directory of network folder under oracle installation directory】
```
export ORACLE_LIB=【lib folder under oracle installations directory】
export LIBPATH=$LIBPATH:/usr/lib:【SuperMap iServer Java installation directory】/bin:$ORACLE_LIB
export UGCROOT=【SuperMap iServer Java installation directory】/support
export NLS_LANG=AMERICAN_AMERICA.ZHS16GBK

Note: ORACLE_HOME should be set to the directory one level up to “network” folder under oracle installation directory, for example, if the directory of “network” is “/oracle/10g/network”, is should be set to “ORACLE_HOME=/oracle/10g”. ORACLE_LIB should be set to the up folder of “lib” folder under oracle installation directory, for example, if the directory of “lib” folder is “/usr/lib/oracle/10.0.0.2/client/lib”, it should set to “ORACLE_LIB=/usr/lib/oracle/10.0.0.2/client/lib”.

After finishing setting the environment variables, execute “source .profile” command to have the environment variables take effect.

You can use “echo” command to check whether the environment variables have set successfully, for example, “echo $LIBPATH”, or using “env” command to view the settings of all the environment variables.

2.5 Installation Directory

After finishing the installation and license configuration of SuperMap iServer Java 2008, there should be 14 folders under installation directory, and also other three files including “license.txt”, “readme.htm” and “What's New.htm”.

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bin folder: this folder is the core part of SuperMap iServer Java software, and generally it is suggested that you should not do any operation to the files in this folder in case your operation will cause iServer services can not work.

data folder: sample data, it is used in SuperMap iServer Java Demo, Getting Started and sample programs.

demo folder: demonstration projects provided by SuperMap iServer Java.

help folder: the help documentation of SuperMap iServer Java is included in it.

manager folder: SuperMap iServer Manager program.

output folder: the default image output path.

samplecode folder: sample program.
SDK folder: development kit for developers.

standardservices folder: provides the configuration and publication of WMS, WFS, KML and GeoRSS services.

SuperMapLCM folder: license configuration management tool.

support folder: includes font library.

thirdparty folder: JDK (6.0) and Tomcat (5.5) provided by SuperMap iServer Java.

_uninst folder: uninstallation file.

webservice folder: provides the configuration and publication of SuperMap WebService services.

3 Uninstallation

3.1 Uninstallation of jar Package

Navigate to the directory of the program folder you want to uninstall, type in the command in the command line, for example:

"cd /home/map/SuperMapServerJava2008/_uninst",

then execute “java -jar uninstall.jar” to uninstall the program.

Note: There will be some files generated when the user uses SuperMap iServer Java, they will not be deleted during uninstallation, and you need to delete these files manually.

1. Execute the uninstalling command.

2. Click Next, the uninstallation summary information will be shown as below.
3.2 Uninstallation of tar Package

You can delete SuperMap iServer Java directory directly.

4 FAQ

1. Q: Why did I fail to install SuperMap iServer Java 2008 by executing "java -jar setup.jar"?
   A:
   1. Make sure you have installed JDK;
   2. Set the Java environment variables. For example, if the installation path for JDK is: /usr/java, set as follows:

   ```
   export JAVA_HOME=/usr/java
   export PATH=$JAVA_HOME/bin:$PATH
   ```
   3. Make sure you are using JDK 1.4 or higher versions. Try the following command to check the JDK version you are using:

   ```
   java -version
   ```

2. Q: Why can’t the Chinese characters display properly on the install interface
3. Q: Why do the following messages display when I click Verify on the License File tab (or click Query on the Hardware Key tab) in the License Configuration dialog: “java.io.FileNotFoundException: /opt/SuperMap/License/SuperMapLic.ini (Permission denied)” and “chmod: Change ‘/opt/SuperMap/License/SuperMapLic_U.ini’ authority: Permission denied”?

A: When you configure the license for SuperMap iServer Java, a license file SuperMapLic_U.ini will be created in …/opt/SuperMap/License SuperMapLic_U.ini and the configuration information will be written in this file. So you must have the permissions to write to the /opt directory. Use the following command to check the permissions on the /opt/SuperMap/License directory and files: ls –al /opt/SuperMap/License. If “drwxr-xr-x” appears, it indicates only the owner of the directory has the write permissions. In this case, you should configure the license under the ROOT user in the following ways: execute “sh license.sh .” to start the License Configuration tool; or use the chmod command to change write permissions to all users and then configure; if SuperMapLic_U.ini file has no write permissions, you still need to change the permissions using chmod.

4. Q: Why does the problem mentioned in Q3 occur when I click Save in the License Configuration tool?

A: See the answer for Q3.

5. Q: Why do the following messages appear when start.sh fails to start the GIS server?
A: You need to set the environment variables and set the bin directory for LD_LIBRARY_PATH=/SuperMap iServer Java. Suppose the path of the bin directory for SuperMap iServer Java is: /home/map/iServer/SuperMapiServerJava2008, then input “export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/home/map/iServer/SuperMapiServerJava2008/bin” and press Enter.