# Manual to Load Image Data

# Overview

SuperMap supports creating image cache for grid, image, and SIT files stored in UDB, ORACLE, SQLServer databases that already have image pyramids. Image cache is tiles for image data, which can optimize the publishing at the server side and browsing performance at the client side. Then SuperMap iClient3D for WebGL (abbreviated as WebGL Client) can access 3D services published by SuperMap iServer, and load image data.

This document explains how WebGL Client load and browse image data.

- 1. Build Cache Data
- 2. Publish 3D Services
- 3. Load Image Data at Client Side

# **Operations**

Here is an example to illustrate the steps.

## 1. Build Cache Data

#### Introduction

Use SuperMap iDesktop to build 3D image cache file \*.sci3d for the image data, which will be helpful for 3D service publishing.

**Basic Steps** 

1 Open SuperMap iDesktop, Workspace Manager>Datasource>Open File Datasource.

2 Select the grid dataset to generate cache, right click to display the context menu, click Create Scene Cache.



- Fig. Create Scene Cache
- 3 In the dialog box that displays, as shown below:

7据		数据源		缓存类型	场景类型
poli		篇 珠峰		影像	球面
∰til					
参数设置			缓存范围	]	
缓存名称:	pol1@F朱山峰		左:	86.737207	💌 默认
缓存路径:	F:\SampleData\Ca	ache\Zhufeng 🔁	上:	28.179364	选择对象
存储类型:	紧凑		右:	87.345212	
编码类型:		-	<b>下</b> :	27.635215	
图片类型:	PNG	•	 比例尺设	(青	
剖分方式:	全球剖分	-	▼层级		*
密码:			1	1:1189808.60263887	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			2	1:594904.301319434	
快大小(像麦):	256*256		3	1:297798.427901463	
	0		4	1:148985.934517971	
			5	1:74514.6663464482	
/# = E	U		<b>V</b> 6	1:31262.1603151111	

Fig. Create Scene Cache dialog box

4 Add Datasets: Click Add Dataset to select the datasets for creating cache, click OK.

- Cache Type: Image.
- Tiling Type: Global.

5 For Parameter Settings, please follow the suggestions below:

- Cache Name: Input cache name, with default being dataset name@datasource name.
- Cache Path: The output path of the cache.
- Storage Type: Compact is suggested.

The Compact storage type compress and encrypt the data when caching, while the Original type keeps the original information.

- Picture Type: JPG, PNG, JPG\_PNG are optional.
  WebGL Client does not support DXTZ.
- Tile Type: Select Global to generate \*.sci3d cache.
- Tile Size: The resample size for generating tiles after caching. The unit is pixels\*pixels. The default is 256\*256.

Eight options are provided: 2048\*2048, 1024\*1024, 512\*512, 256\*256. You can choose the size based on your needs.

• Set password according to your needs.

6 Keep Cache Extent and Scales by default. Click OK to generate cache.

#### Results

A **\*.sci3d** configuration file will be generated at the specified output path. Moreover, there will be a folder created to store image data, as shown below.

JampleData ▶ Cache	► Zhufeng_Image	▶ pol1@珠峰 ▶		
建文件夹				
名称	^	修改日期	类型	大小
<b>a</b>		2016/4/26 9:30	文件夹	ł
🍌 5		2016/4/26 9:30	文件夹	
<b>)</b> 6		2016/4/26 9:30	文件夹	1
🔒 7		2016/4/26 9:30	文件夹	1
🔒 8		2016/4/26 9:30	文件夹	
퉬 9		2016/4/26 9:30	文件夹	7
퉬 10		2016/4/26 9:30	文件夹	
11		2016/4/26 9:30	文件夹	2
🔰 🚺 12		2016/4/26 9:30	文件夹	1
13		2016/4/26 9:30	文件夹	
14		2016/4/26 9:31	文件夹	- F
퉬 15		2016/4/26 9:33	文件夹	2
pol1@珠山	肁.sci3d	2016/4/26 9:30	SCI3D 文件	2 KB
- and - for and -	and so proments	I all plant from your	- Same Strand	per phan

Fig. Results

## 2. Publish 3D Services

#### Introduction

After creating cache, we will see how to publish the image

cache as 3D services to allow WebGL Client to load image data.

1 Open SuperMap iDesktop, Workspace Manager>Scene>New Spherical Scene.

2 Layer Manager>General Layers>Add Image Cache Layer,

select the **\*.sci3d** configuration file generated.



#### Fig. Add image cache to scene

3 After adding cache layer, save the scene and workspace.

4 Start iserver via 4 startup.bat under %SuperMap

## iServer\_HOME%/bin.

5 Start bowser, enter Web Manager

via <u>http://localhost:8090/iserver/manager</u>. Quickly publish a service at Home Page.

首页	服务	集群	日志	安全
快捷操作	快速发布一	个或一组服	资	
	安管理		]	
	strongly	110 -	1. Jan	

Fig. Quickly publish one or multiple services

6 In the Quickly publish service--Select datasource page, select the Workspace as the Data source, and click Next.

快速发布服务	务-选择发布的数据来源			×
数据来源为	工作空间或标准远程服务。			
数据来源:	工作空间	•		
			下一步	取消

Fig. Select the Workspace as the Data source

7 In the Quickly publish service--Configure data page, click Remote Browse to select the workspace, click Next.

快速发布服务-配置数据		×
工作空间类型:	文件型    ▼	
工作空间路径:	F:/SampleData/Cache/Zh 本地浏览	远程浏览
工作空间密码:		
		上一步 下一步 取消

Fig. Select the workspace

8 In the Quickly publish service--Select service type page, Select REST 3D Service, click Next.

快速发布服务-选择发布的服务类型	×
当前数据源支持以下服务类型,可多选。	
□ 选中/取消选中	
□ REST-地图服务	
□ REST-数据服务	
☑ REST-三维服务	
□ REST-空间分析服务	
■ RFST-交通网络分析服务	V debuged of a state

Fig. Select REST 3D Service

When finished, click Finish and Close.

#### Results

The service displays in the service

list http://localhost:8090/iserver/services, as shown below.

三维服务
3D-BeijingTerrian/rest
3D-ChinaProvinces/rest
3D-MaSai/rest
3D-Pipe3D/rest
3D-Zhufeng_Image/rest
لى مەمىر بىرىمىرىيىن مۇيىتىرى

Fig. The published service

## 3. Load Image Data at Client Side

#### Introduction

After publishing service, WebGL Client can load the image data.

Please place WebGL package at %SuperMap

iServer\_HOME%/webapps.

**Basic Steps** 

1 Get the url of the 3D data.

- Enter <u>http://localhost:8090/iserver/services</u> and find the published 3D service.
- Enter root directory page, click realspace.
- Enter 3D page, click datas.
- Enter datas page, click links below.
- Enter data page, copy the address of the url.



# Fig. Copy url address

# 2 Enter WebGL package in %SuperMap

# iServer\_HOME%/webapps, open terrainAndImagery.html in

text editor under the examples folder, change the address in SuperMapimageryProvider() to the address we just copied, as shown below.



Fig. Change parameter

3 Open the terrainAndImagery.html page, that is, enter the

url http://localhost:8090/%WebGL

Package%/examples/terrainAndImagery.html in the browser.

## Results

After you open the page, the camera flies to the position of the image data, as shown below.



Fig. Image loaded at WebGL Client

Note: For more information about how to load terrain data,

please refer to Load Terrain Data.

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