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1.Server installation

1.1 Server hardware configuration requirements

		Minimum	0~500 Devices
Server	Operating system	Windows Server2008 (or above) 64 bit	Windows Server2008 (or above) 64 bit
	CPU	Xeon, more than 4 cores recommended	Xeon, more than 4 cores recommended
	Memory	8GB	8GB and above
	Hard disk	512G	1TB
	Internet bandwidth	10Mbps	50Mbps

1.2 Port description

The following ports of the system must be accessible in the public network environment, also The server must ensure that the following ports are idle for installation.

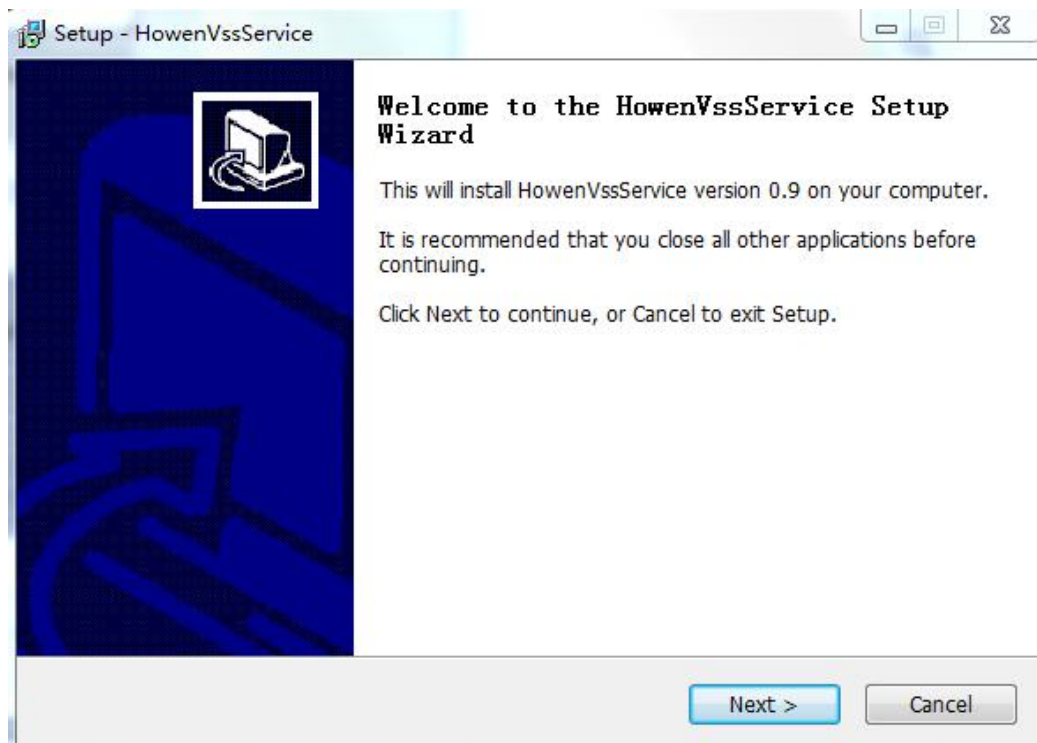
Forward those ports on the router and firewall of PC: 9966 (WEB port), user streaming media service port (33122), user video on demand service port (33188), device streaming media service port (33111), device video download service port (33166).

Server Port Name	Network Port	Type
WEB Port	9966	TCP
User Streaming Media Service Port	33122	TCP
User Video On Demand Service Port	33188	TCP
Device Streaming Media Service Port	33111	TCP
Device Video Download Service Port	33166	TCP

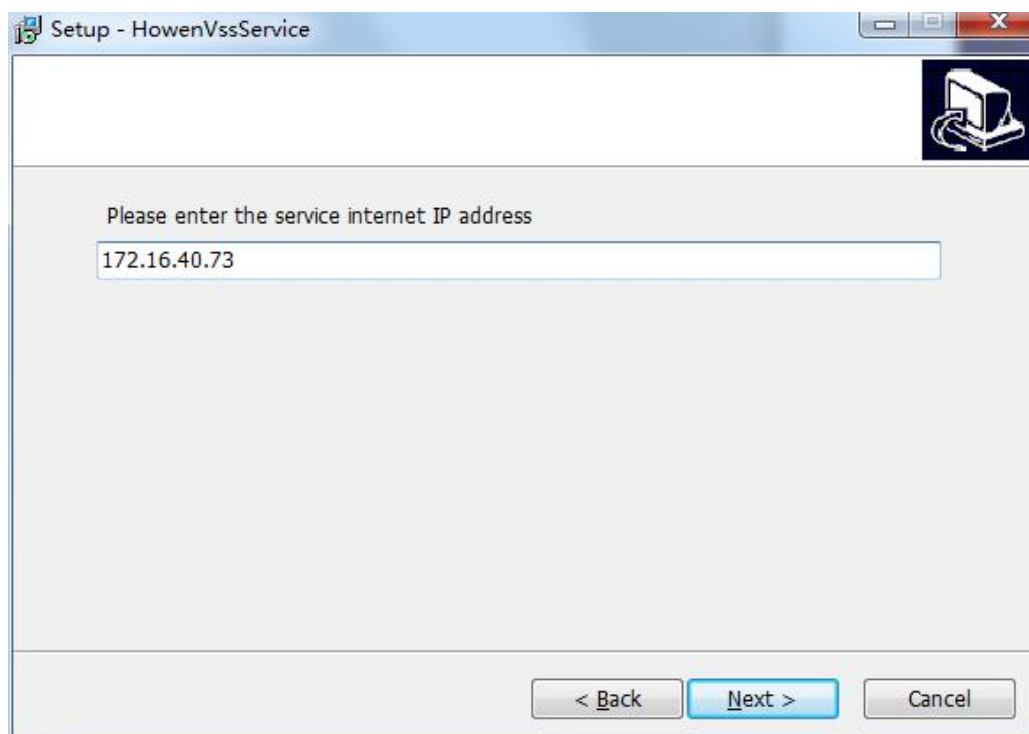
If there are port conflicts, you need to configure port mapping for these services in the router or network security group. After configuration, you must enter the mapped external network port in **web management system -> Service Management -> network configuration**.

1.3 Install the HowenVssService

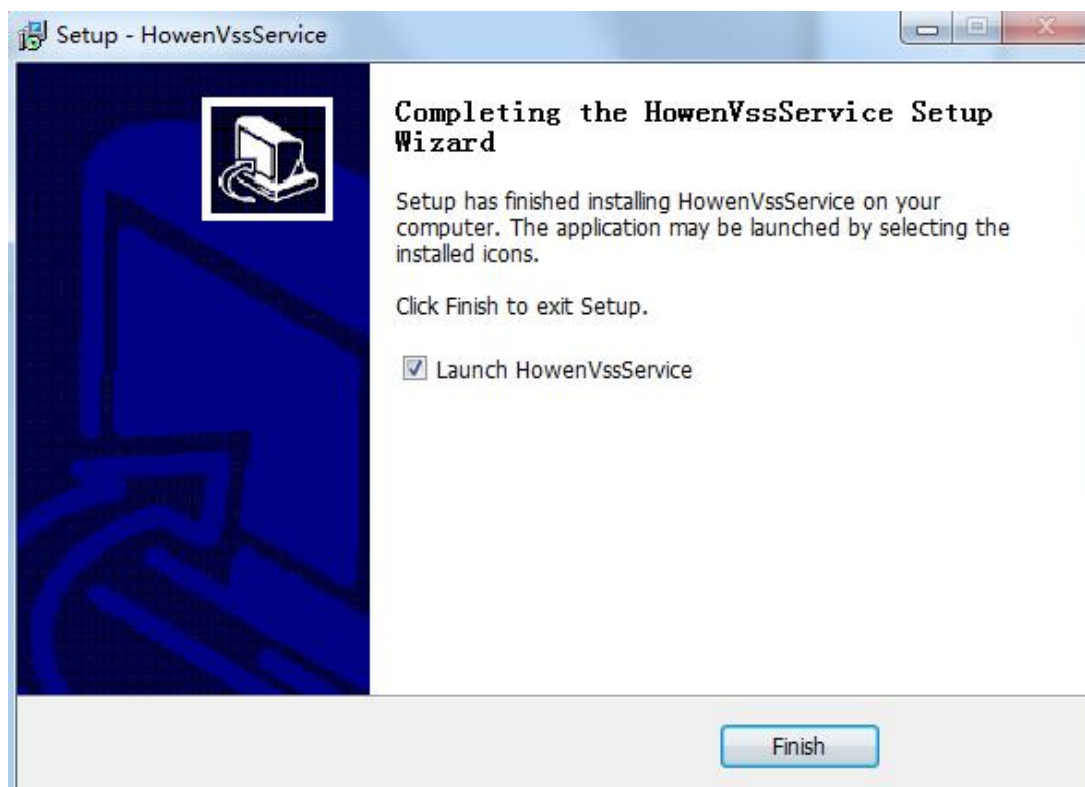
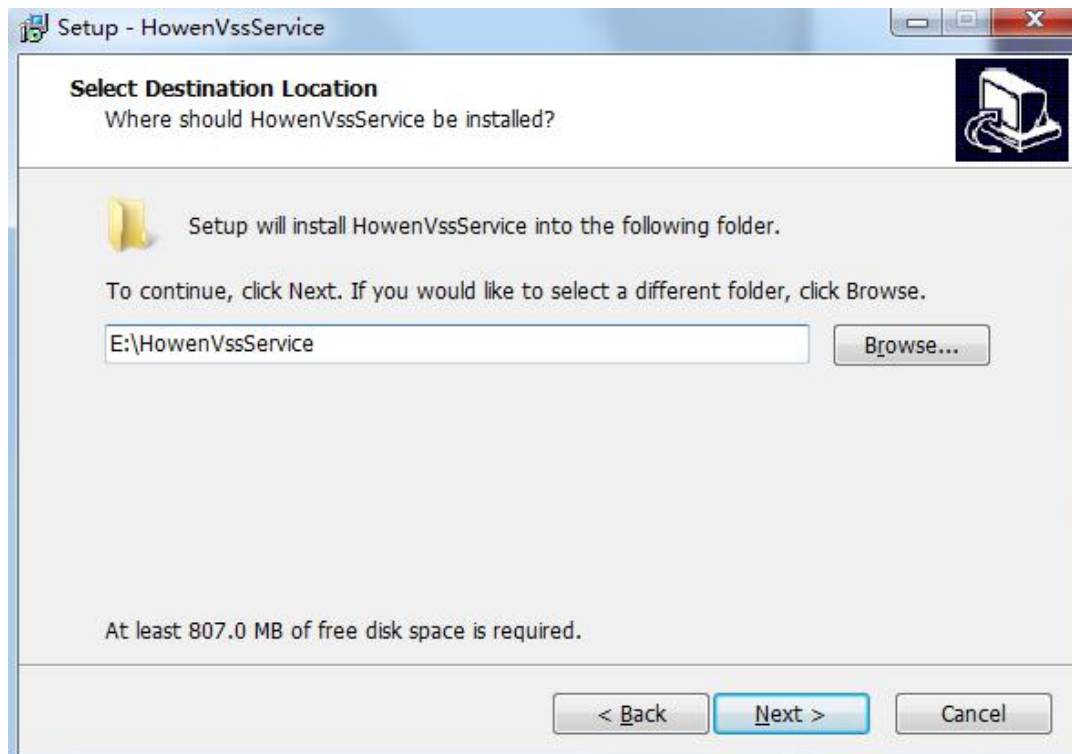
1. Double click the installation package file to open the following dialog box, and then click Next:



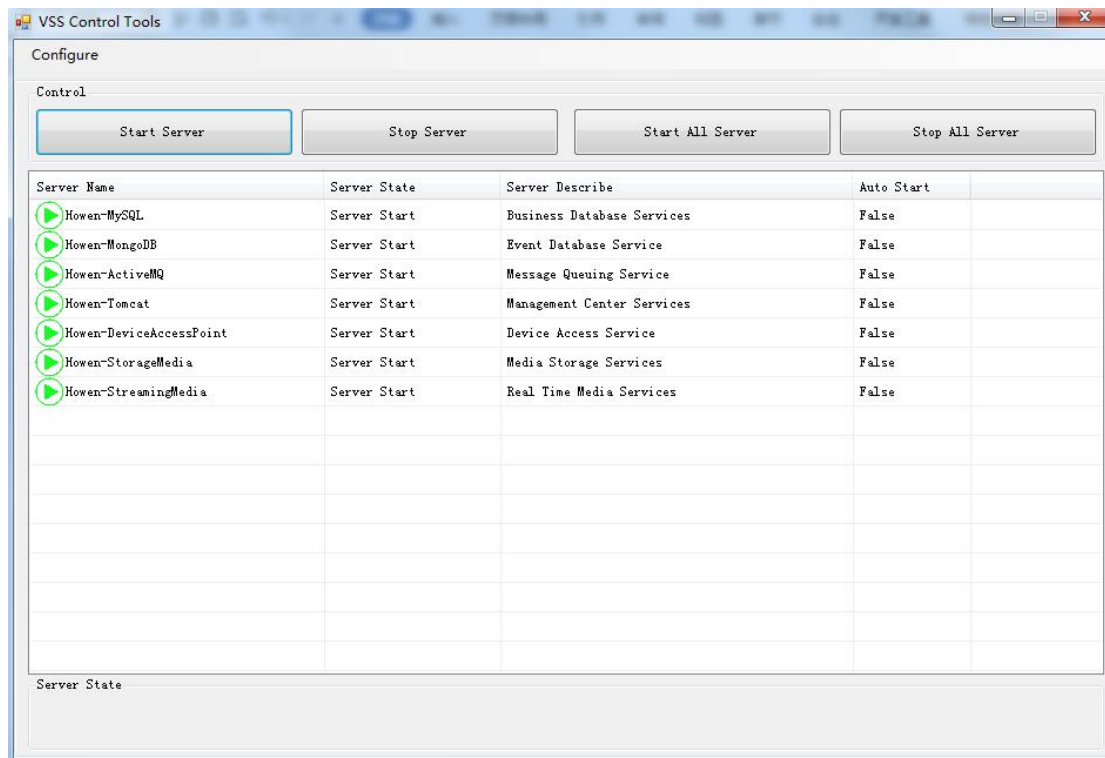
2. Enter the service internet IP address. Fill in the fixed IP address of the machine. you can configure the public IP or domain name. If you ignore this step, you need to configure the public IP or domain name in the **web management system**-> **Service Management** -> **network configuration**.



3. Select to accept the license agreement, and then click next to enter the installation folder path selection. It is installed on Disk C by default, and the installation location can be changed. Click next after completion.



4. Check whether all the service programs are running normally.



Note: Uninstall must stop all services first.

2. System settings

2.1 GPS / alarm data validity configuration.

In order to keep the system running efficiently, the data table with large amount of data such as GPS/alarm will automatically migrate the expired data to the historical data table according to its validity period. Expiration time is configured in the installation directory.

Web \ webapps \ VSS \ WEB-INF \ classes \ config \ jdbc.properties.

Where **statusDataExpiermonth** and **alarmDataExpiermonth** are the valid period of status data (unit month) and alarm data (unit month).(The default validity period of status data is 2 months, and the default validity period of alarm data is 6 months.)

```
#Validity period of status data, include gps/mileage...
statusDataExpireMonth=2
#Validity period of alarm data, include gps/alarm... un
alarmDataExpireMonth=6
```

Note: After this configuration changes, all services must be restarted by VSS server.

2.2 Video storage path

Installation directory: storage\conf\setting.xml, search <storage>.

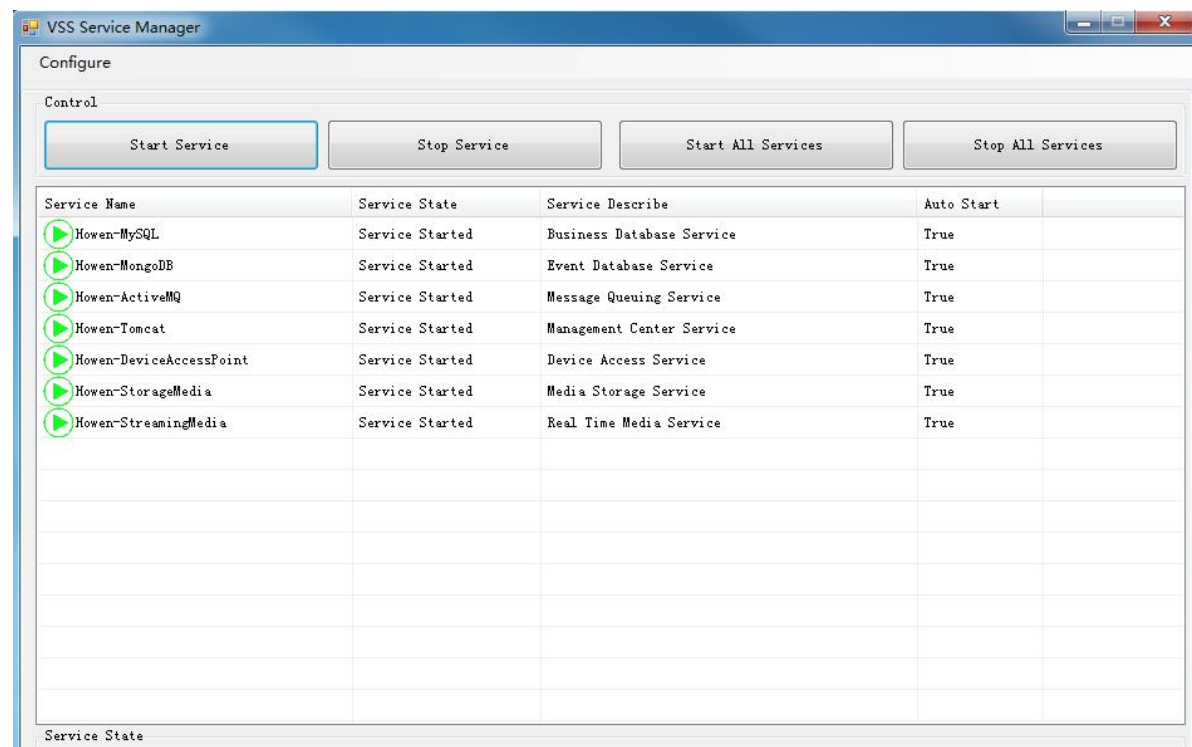
Note: After this configuration changes, Storage Media services must be restarted by VSS Server.

3. Server side maintenance tools

Two server side maintenance tools start in Windows program menu.

3.1 VSS Service Manger

After installation, you can automatically open the service management tool and load it into automatic start-up. **VSS Service manager** is used to manage the start and stop of services. Witch includes **Start Server, Stop Server, Start All Server, Stop All Server**.



Server Name	Server type	Function Describe
Howen-MySQL	Business database services	Store business data
Howen-MongoDB	Event database service	Storage device GPS data
Howen-ActiveMQ	Message Queuing service	Device status and alarm message push service

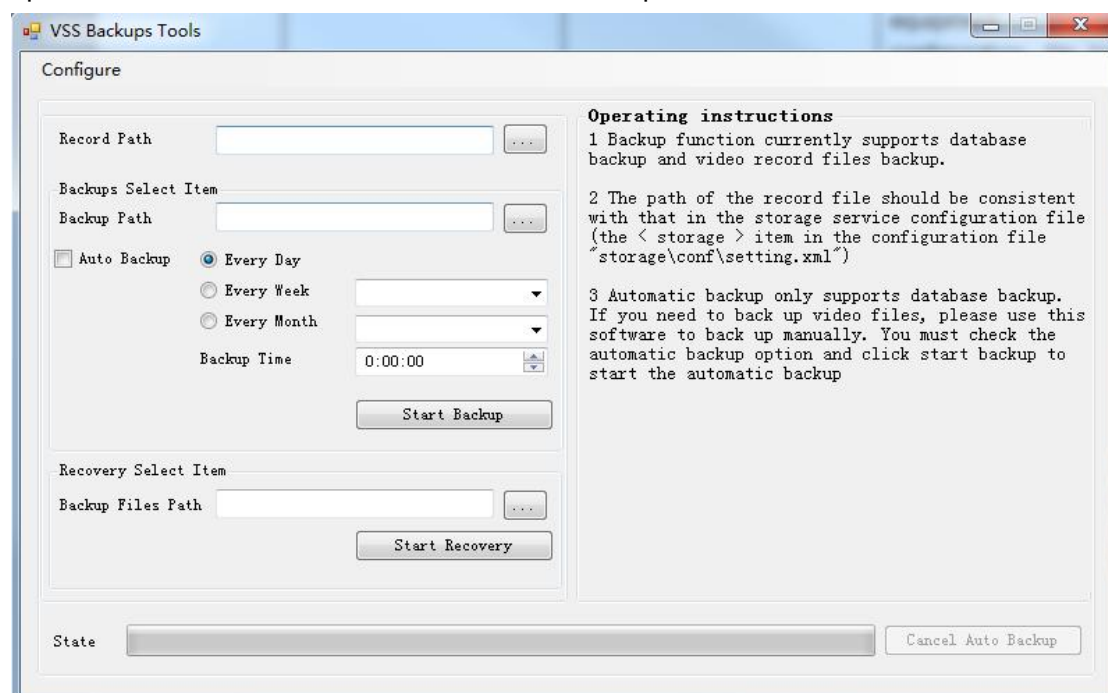
Howen-Tomcat	Management Center Services	Responsible for operation management, login verification, report management, etc
Howen-DeviceAccessPoint	Device access service	Responsible for equipment registration and reporting equipment status and alarm
Howen-StorageMedia	Media storage services	Download and replay alarm video
Howen-StreamingMedia	Real time media services	Responsible for real-time video distribution, video playback, equipment parameter, configuration, file transmission and other service functions

Configure-Language:choose language English/Chinese.

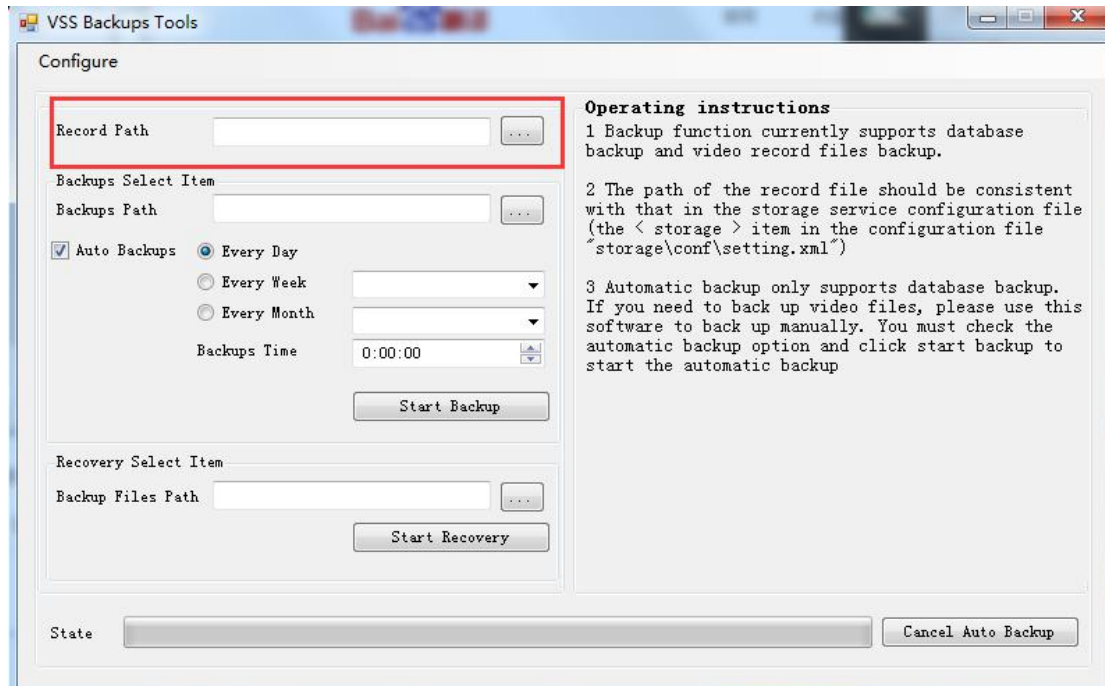
3.2 VSSBackups

Operating instructions:

1. Vssbackup is the software of VSS database and video backup tool.
2. The path of record file should be consistent with that in the storage service configuration file (that <storage> item in the configuration file "storage\conf\setting.xml")
3. Automatic backup only supports database backup.If you need to back up video files,please use this software to back up manually.You must check the automatic backup option and click back to start the automatic backup.



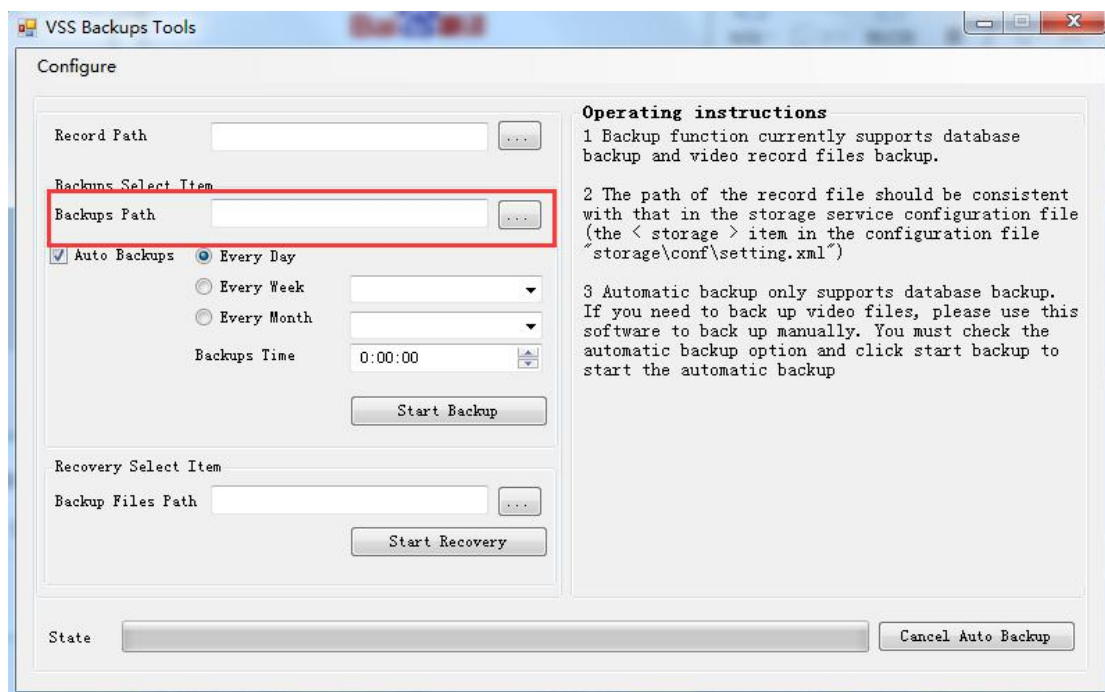
3.2.1 Record



Record Path:Browse and select record path

Note:The path of record file should be consistent with that in the storage service configuration file.

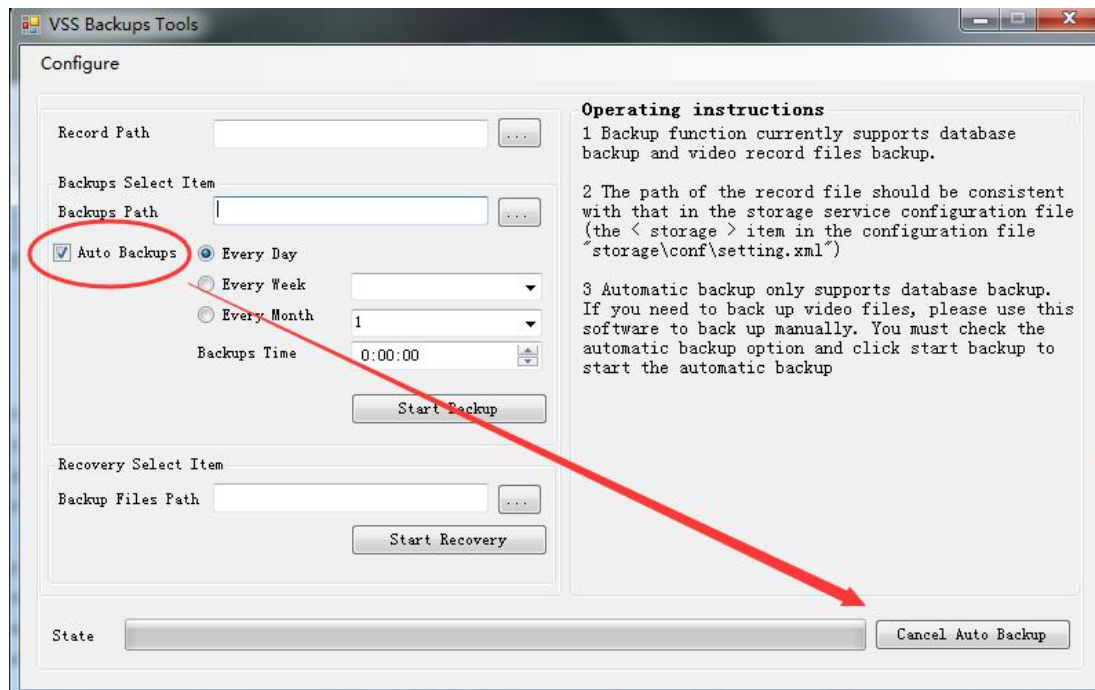
3.2.2 Backups Select Item



Backup Path:Browse and select backup path

Two backup modes.

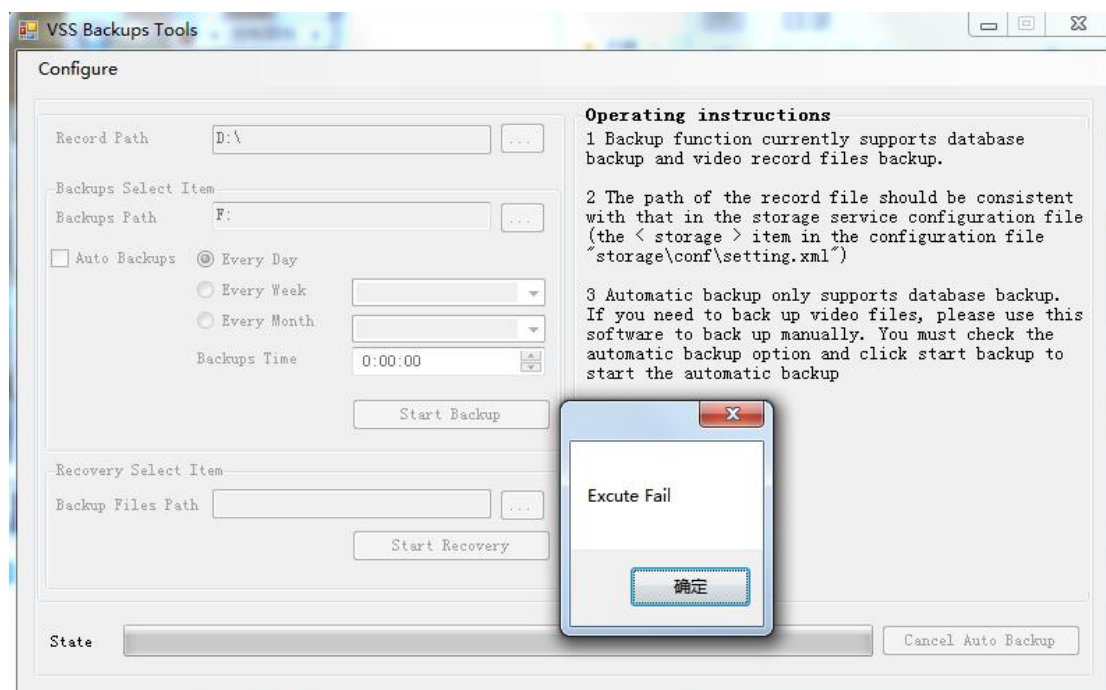
1. **Auto Backups**. Check Auto Backups box, and at the bottom right corner can choose to **Cancel Auto Backups**. Choose backup interval, including **Every Day**, **Every Week**, **Every Month**. And specific **Backup Time**. Then Click **Start Backup** button.

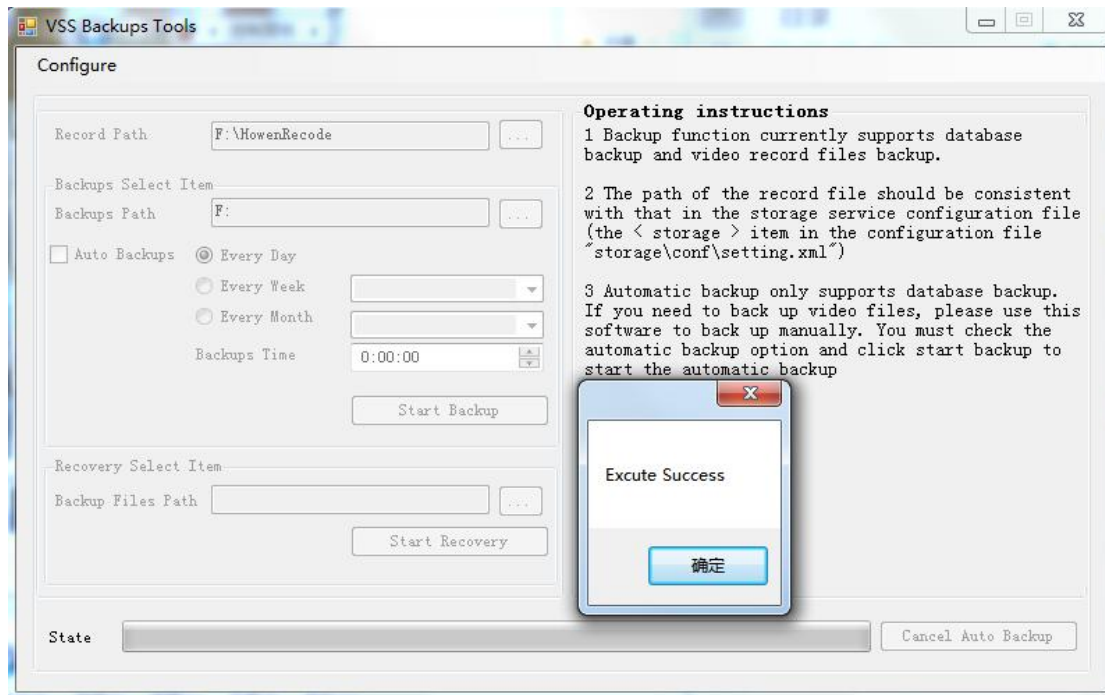


2. **Backup Now**

Click the **Start Backup** button to backup now.

If the backup is successful, the pop-up window displays "Excute Success". Otherwise display "Excute Fail". then you need to reselect record path.





3.2.3 Recovery Select Item

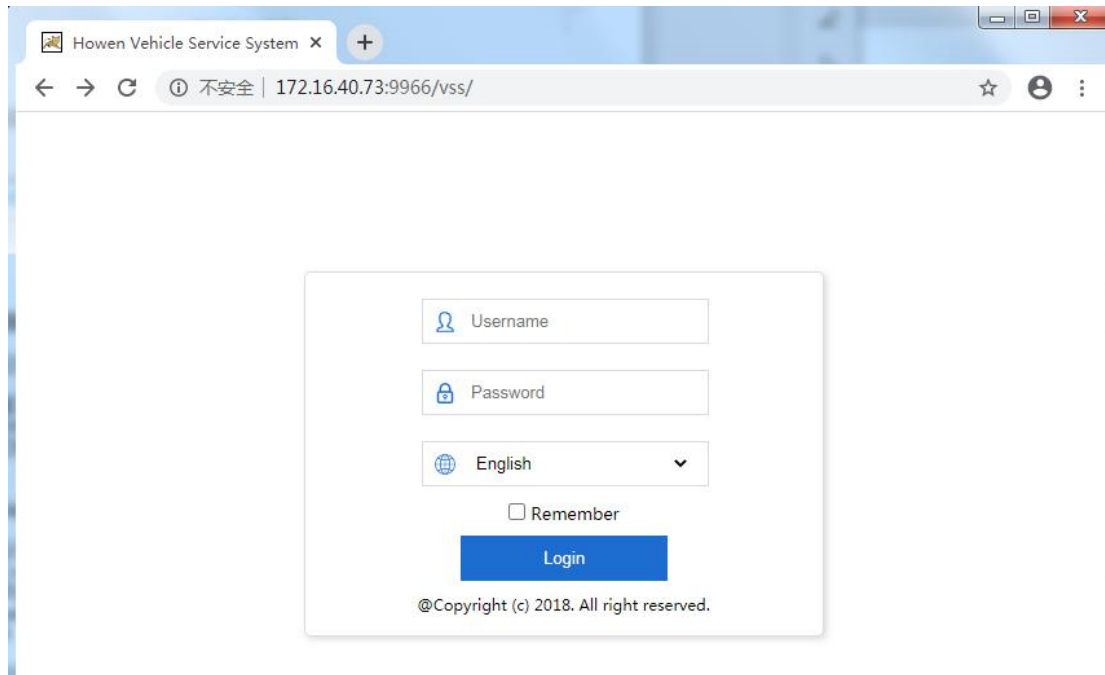
Select the specific files in the next level path of the backup path. If the path is wrong, the pop-up window displays "Not Path".

4. Web management system

4.1 Login via web

Login via <http://ip:9966/vss>

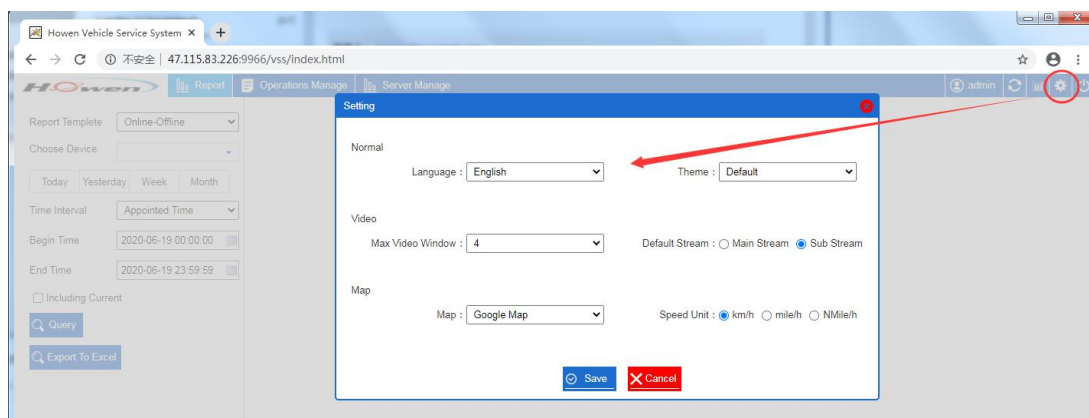
Default administrator: [admin / admin](#)



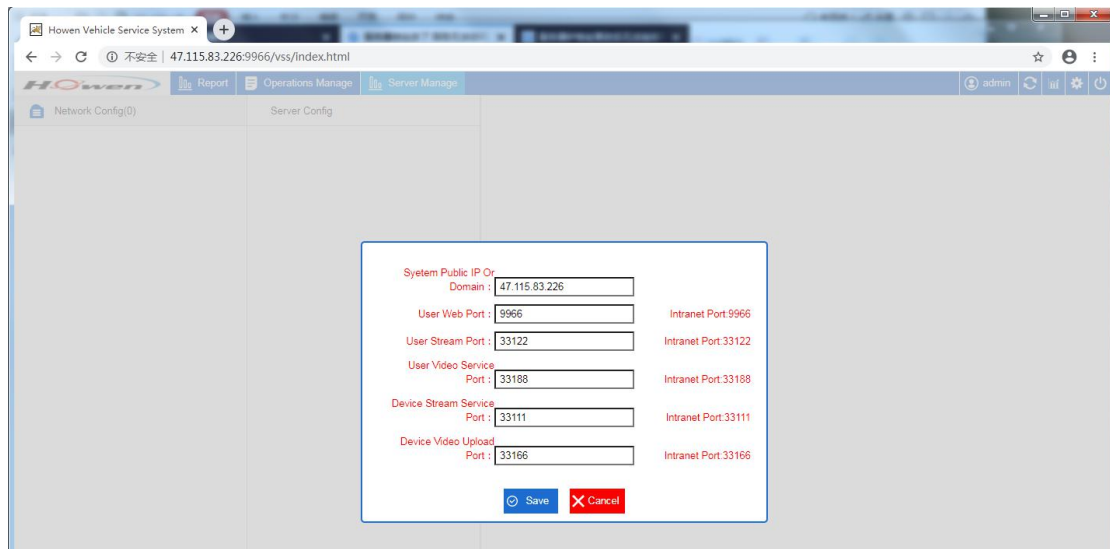
Switch language:

There are two ways to switch languages:

1. Select a language in the login interface.
2. After login, click the setting icon in the upper right corner of the main interface, select the language and then save.

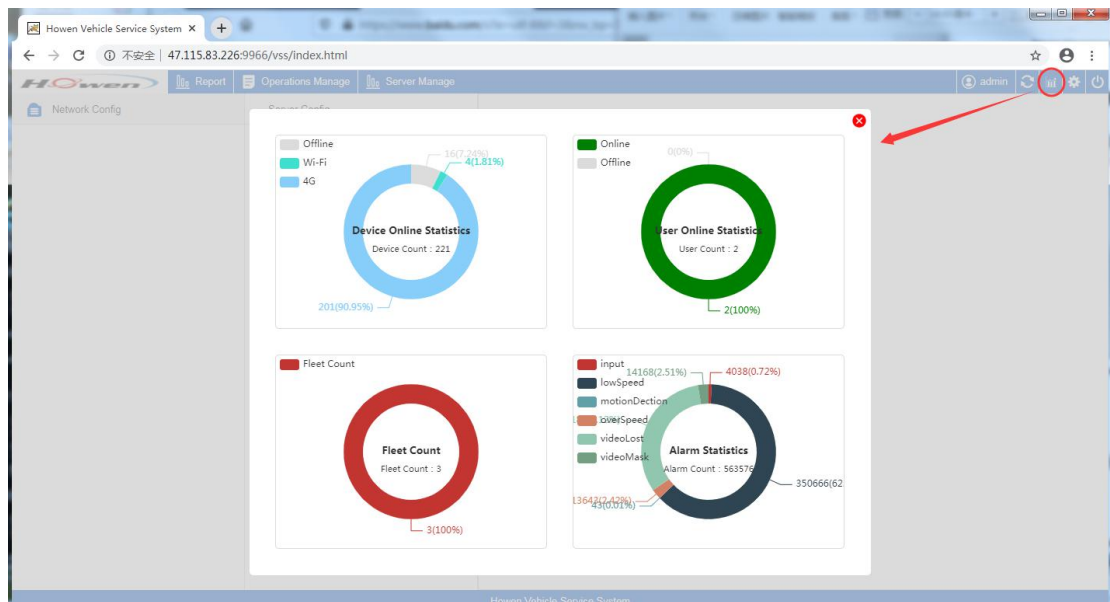


4.2 Server Manage



1. System Public IP or Domain should fill in public IP or domain.
2. The following ports are the public network service ports of each service. If the mapping ports configured on the router or in the network security group are different from those configured here, they need to be modified into mapping ports, otherwise they do not need to be modified.

4.3 Show Board



Click the specific item in the ring chart, the pop-up window will display the specific information of the Device Online Statistics and the Fleet Count.

Howen Vehicle Service System

Report Operators Message Server Manager

Network Config Server Config

No	Device No	Access Mode	Last Online Time	Last Offline Time
1	99990060	4G	2020-06-17 10:12	2020-06-17 10:12
2	99990197	4G	2020-06-17 10:12	2020-06-17 10:12
3	99990063	4G	2020-06-17 10:12	2020-06-17 10:12
4	99990088	4G	2020-06-17 10:12	2020-06-17 10:12
5	99990170	4G	2020-06-17 10:12	2020-06-17 10:12
6	99990008	4G	2020-06-17 10:12	2020-06-17 10:12
7	99990062	4G	2020-06-17 10:12	2020-06-17 10:12
8	99990131	4G	2020-06-17 10:12	2020-06-17 10:12
9	99990128	4G	2020-06-17 10:12	2020-06-17 10:12
10	99990015	4G	2020-06-17 10:12	2020-06-17 10:12
11	99990144	4G	2020-06-17 10:12	2020-06-17 10:12
12	99990188	4G	2020-06-17 10:12	2020-06-17 10:12
13	99990167	4G	2020-06-17 10:12	2020-06-17 10:12
14	99990047	4G	2020-06-17 10:12	2020-06-17 10:12

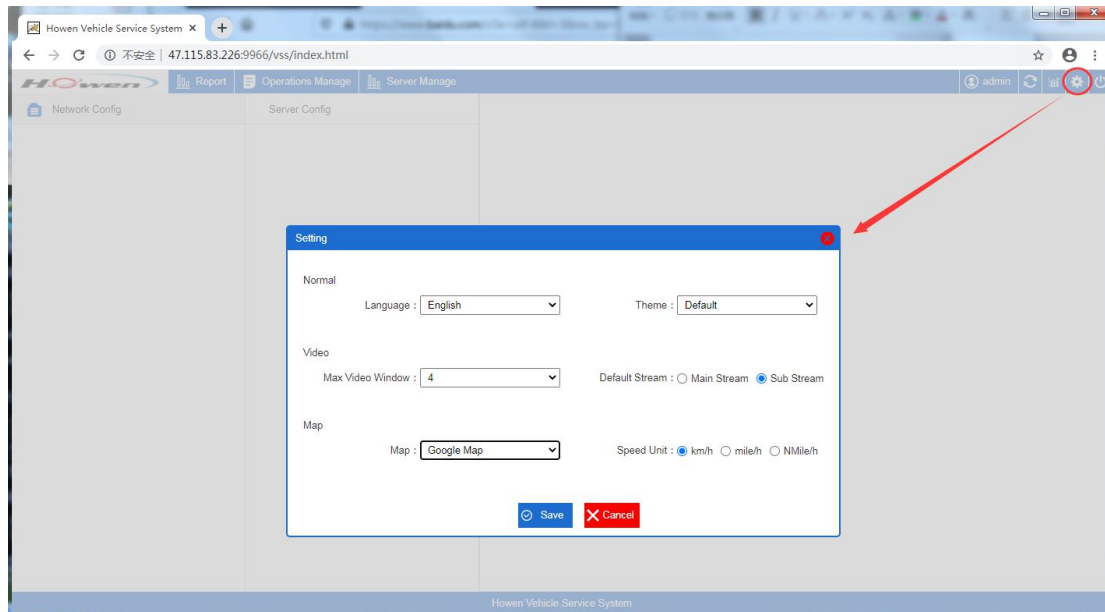
Howen Vehicle Service System

Report Operators Message Server Manager

Network Config Server Config

No	Fleet Name	Total Count	Online Count	Offline Count
1	Default Fleet	15	4	11
2	环球通	6	1	5
3	Simulator	200	199	1

4.4 Setting



Normal -->language:switch language.

Video -->Max Video Windows:1/4/6/9/16

-->Default Stream:Main Stream or Sub Stream

Map -->choose Map.

-->Speed Unit:km/h,mile/h,NMile/h