Hytera

SmartDispatch

Installation Guide

Contents

Documentation Information

This section describes the conventions and revision history of this document.

Documentation Conventions

Icon Conventions

Icon	Description
Tips	Indicates information that can help you make better use of your product.
Note	Indicates references that can further describe the related topics.
Caution	Indicates situations that could cause data loss or equipment damage.
Warning	Indicates situations that could cause minor personal injury.
Danger	Indicates situations that could cause major personal injury or even death.

Notation Conventions
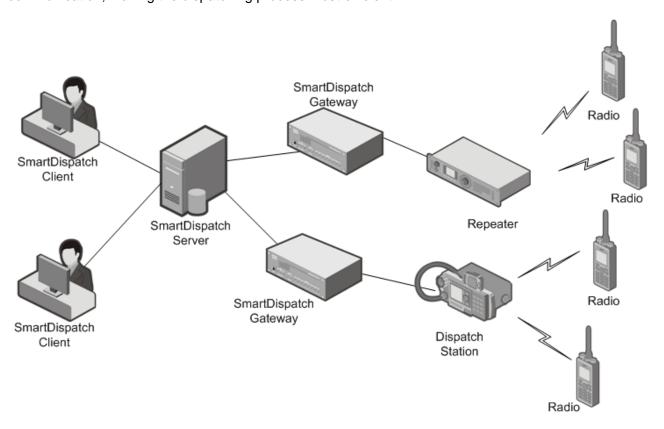
Item	Description
" "	The quotation marks enclose the name of a software interface element. For example, click "OK".
Bold	The text in boldface denotes the name of a hardware button. For example, press the **PTT** key.
->	The symbol directs you to access a multi-level menu. For example, to select "New" from the "File" menu, we will describe it as follows: "File -> New".

Revision History

Version	Release Date	Description
06(V4.2)	07-2014	• Added "4.5.2 Upgrade Installation". • Updated description about requirements on version of Dispatch station, repeater, radio and Customer Programming Software (CPS). • Updated "4.2.1 Installing and Configuring the Microsoft SQL SERVER 2008 Express".
05(V4.0)	11-2013	• Updated the Reset Tracking interface. • Added a button in the map toolbar. • Updated the Message interface.
04(V3.6)	01-2013	• Updated the Reset Tracking interface. • Added a button in the map toolbar. • Updated the Message interface.
03 (V3.5)	11-2012	Added the Repeater component.
02 (V3.0)	09-2012	Removed the Media Server and Remote Configurator components.
01 (R2.5)	04-2012	Initial release

1. Product Overview

SmartDispatch is an integrated and modular dispatch system based on the Client/Server architecture, which facilitates the construction of a complex dispatch system. It consists of the SmartDispatch Client, SmartDispatch Gateway, SmartDispatch Server, repeater, dispatch station and radio. SmartDispatch provides capabilities such as radio dispatch, GPS location, telephone interconnection, text and voice communication, making the dispatching process most efficient.

The following table details all components in the SmartDispatch system.

Network Element	Function
SmartDispatch Server	Acts as the logical control center in the SmartDispatch system.
Database	Stores all data of the SmartDispatch system.
SmartDispatch Gateway	Provides a platform for exchanging data and audios.
SmartDispatch Client	Presents all information to the dispatchers in an intuitive manner to control, organize and monitor the radio subscribers, groups and fleets.
Repeater	Extends the communication coverage.

Network Element	Function
Dispatch station	Expands the dispatch coverage, and provides audio and data communication.
Radio	Fulfills the tasks assigned by the dispatcher.

Note

The SmartDispatch Gateway, SmartDispatch Server and SmartDispatch Client can be installed on the same computer. If the computer with the SmartDispatch Gateway connects to the dispatch station, you should prepare two sound cards at least for it. However, if computer with the SmartDispatch Gateway connects to the repeater, you just need to prepare one sound card for it.

2. Pre-installation Task

2.1 Software Requirements

The installation disc (SmartDispatch 4.2) contains all required software programs. See the table below for details.

No.	Software	Description
1	Database	The installation disc contains the Microsoft SQL SERVER 2008 Express and Microsoft SQL SERVER 2005 Express (32-bit).
2	SmartDispatch Server	As this application, together with the SmartDispatch Gateway and SmartDispatch Client, is integrated in the same installation disc, you need to manually select it during installation.
3	SmartDispatch Gateway	As this application, together with the SmartDispatch Server and SmartDispatch Client is integrated in the same installation disc, you need to manually select it during installation.
4	SmartDispatch Client	As this application, together with the SmartDispatch Server and SmartDispatch Gateway is integrated in the same installation disc, you need to manually select it during installation.

Note

The Customer Programming Software and USB driver program (V3.01.01.005 or later) are required in case of programming the dispatch station, repeater and radio.

If you need to use the offline map, you should prepare the MapX5.0 installation package by yourself.

2.2 Hardware Requirements

The following table lists the required hardware.

Hardware	Requirement
SmartDispatch Server	● CPU: 2.0GHz or above (dual-core) ● Free disk space: 500GB or above (subject to the actual requirements) ● Memory: 2.0G or above ● Operating system: Windows Server 2008, Windows XP SP3 or later, Windows 7 SP1 or later (32-bit or 64-bit) ● Database: MS SQL SERVER 2005 or MS SQL SERVER 2008
SmartDispatch Gateway	● CPU: 2.0GHz or above (dual-core) ● Free disk space: 500MB or above ● Memory: 2.0G or above ● Operating system: Windows XP SP3 or later, Windows 7 SP1 or later (32-bit or 64-bit) ● Sound card: single-channel sound card or multi-channel sound card. ● Network interface card: 10/100Mbps or above
SmartDispatch Client	● CPU: 2.0GHz or above (dual-core) ● Free disk space: 500MB or above ● Memory: 2.0G or above ● Operating system: Windows XP SP3 or later, Windows 7 SP1 or later (32-bit or 64-bit) ● Sound card: single-channel sound card or multi-channel sound card. ● Video card: general video card or special video card. The former is used to view the information on one monitor, while the latter can allow you to view the information on different monitors simultaneously. ● Network interface card: 10/100Mbps or above
Dispatch station	Firmware Version: VV6.05.xx.xxx or later.
Repeater	Firmware Version: V5.05.xx.xxx or later.
Radio	Firmware Version: V5.05.xx.xxx or later.

⚠️**Caution**

In Windows 7, you must activate the administrator account first. To install a software program, right-click the corresponding installer and select "Run as administrator".

2.3 Checking the Edition of the Operating System

Before you install the SmartDispatch, you need to check whether your operating system meets the following requirements:
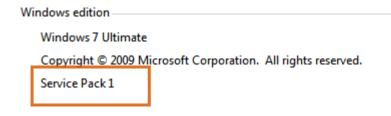
Windows XP: SP3 or later

Windows 7: SP1 or later

Windows XP

Right-click "My Computer" and select "Properties" to check the current edition.
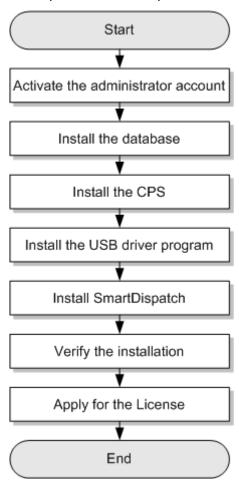

Windows 7

Go to "Control Panel -> System and Security -> System" to check the current edition.

3. Installation Flow

The following figure shows the SmartDispatch installation process.

4. Installation Procedures

The whole installation process except the database installation may take 10 minutes. After you install the SmartDispatch, you should verify whether the installation is successful.

4.1 Activating the Administrator Account

As the administrator account in Windows 7 is disabled by default, you must activate it prior to installation. The procedures are as follows:

Step 1   Go to "C:\windows\System32"

Step 2   Find the "cmd.exe" file.

Step 3   Right-click this file to select "Run as administrator".

Step 4   Type *"net user administrator /active:yes"* in the command prompt.

Step 5   Check whether the command is run successfully. If yes, log out of the operating system.

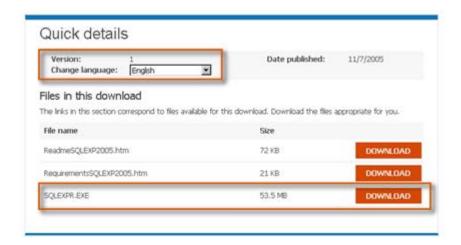**Step 6**   Do use the administrator account to log in to the operating system again.

4.2 Installing the Database (MSSQL SERVER 2005 or MSSQL SERVER 2008)

The installation disc contains the free Microsoft SQL SERVER 2005 Express and Microsoft SQL SERVER 2008 Express. You just need to select an appropriate one and install it. For details, see 4.2.1 Installing and Configuring the Microsoft SQL SERVER 2008 Express or 4.2.2 Installing and Configuring the Microsoft SQL SERVER 2005 Express. If you do not obtain this installation disc, you can go to the following website to download the database you need.
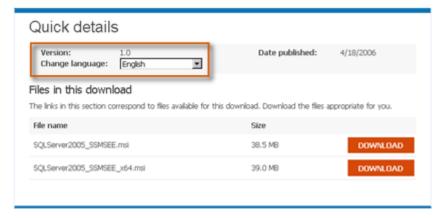
Note

➢ The "X64" in the file name as shown in the following figures indicates that the installation file is applicable to the 64-bit operating system.

➢ The installation windows in the manual are for your reference only.

● MSSQL Server 2005 Express Edition:

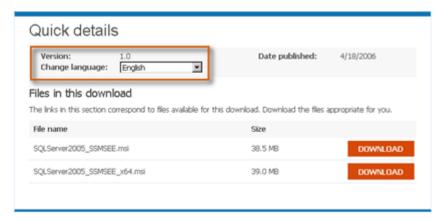http://www.microsoft.com/en-us/download/details.aspx?id=21844

- Microsoft SQL Server Management Studio Express:

  http://www.microsoft.com/en-us/download/details.aspx?id=8961

- MSSQL Server 2008 Express:

  http://www.microsoft.com/en-us/download/details.aspx?id=1695

It is highly recommended to install the database and SmartDispatch Server on the same computer.

4.2.1 Installing and Configuring the Microsoft SQL SERVER 2008 Express

Installing the Microsoft SQL SERVER 2008 Express

Requirement

Before installation, you must have the administrative privileges, and the following tasks have been done.
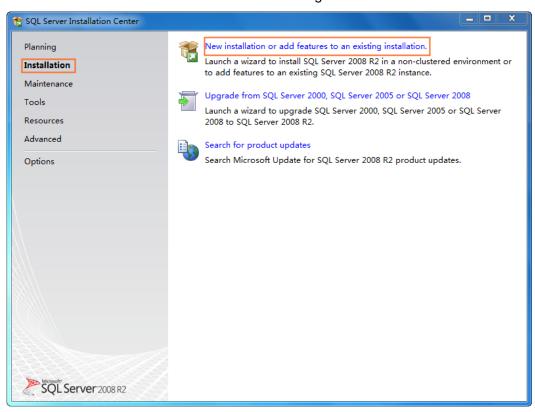
- The Microsoft .Net Framework 3.5 SP1 is installed properly in Windows XP.

- The Windows Installer 4.5 is installed properly.

- The Windows PowerShell 1.0 is installed properly.
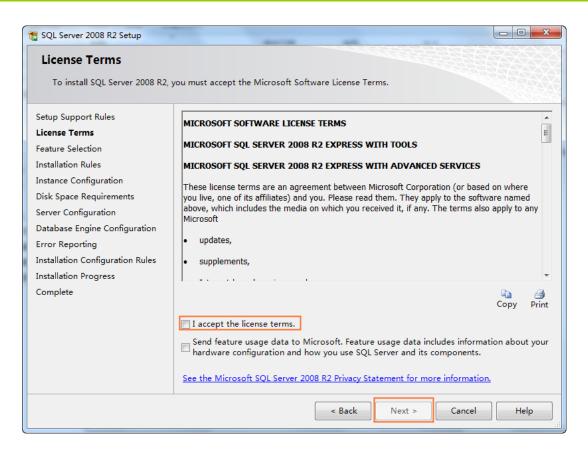
Procedure

Note

  The Microsoft SQL SERVER 2008 R2 Express Edition is available in the installation disc. If this

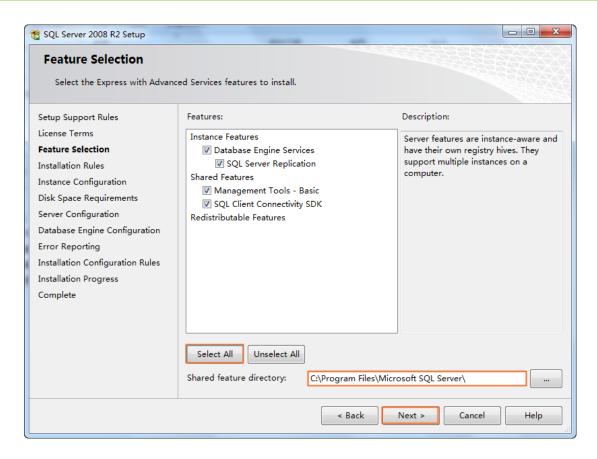 database cannot meet your requirement, you need to prepare your own database by yourself.

Step 1 Open the setup file "Microsoft SQL Server 2008 R2 Express Edition".

Step 2 Click "New installation or add features to an existing installation" in the "Installation" interface.
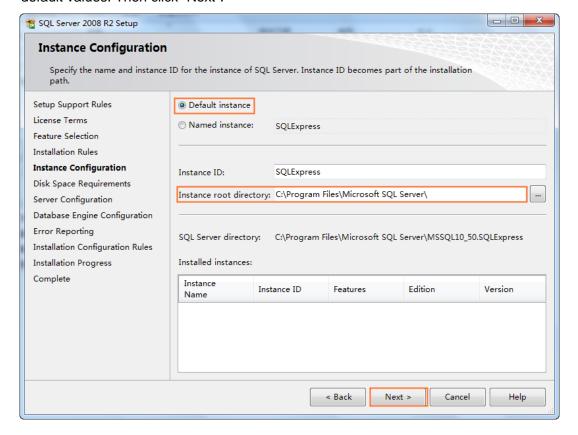

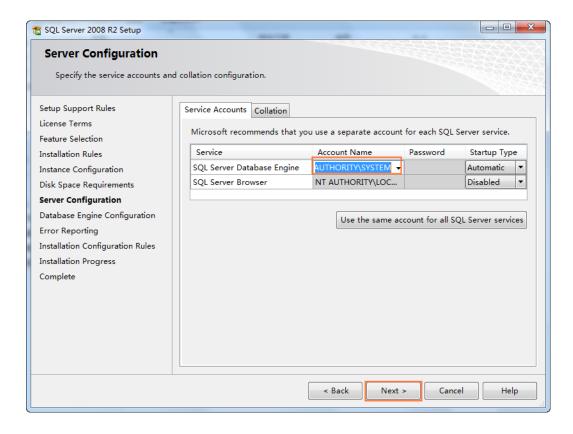**Step 3** Select "I accept the license terms" and click "Next".

Step 4   Click "Select All" and specify the installation directory. Then click "Next".

Step 5   Specify the installation directory in "Instance root directory" and leave other settings at their
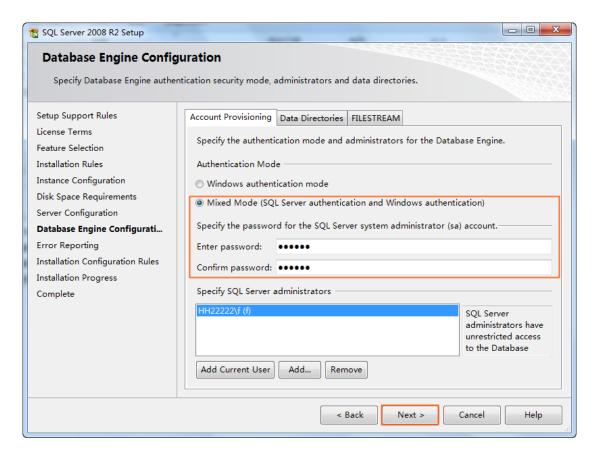
default values. Then click "Next".

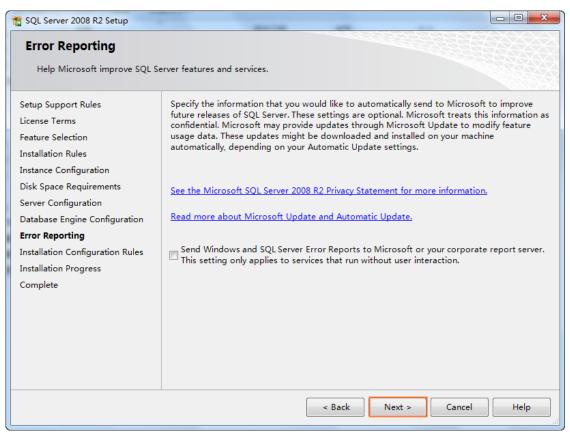**Step 6**   Set "Account Name" to "NT AUTHORITY\SYSTEM" and click "Next".

Step 7   Select "Mixed Mode", enter the password (e.g. 123456) for login to the SQL Server and click "Next".
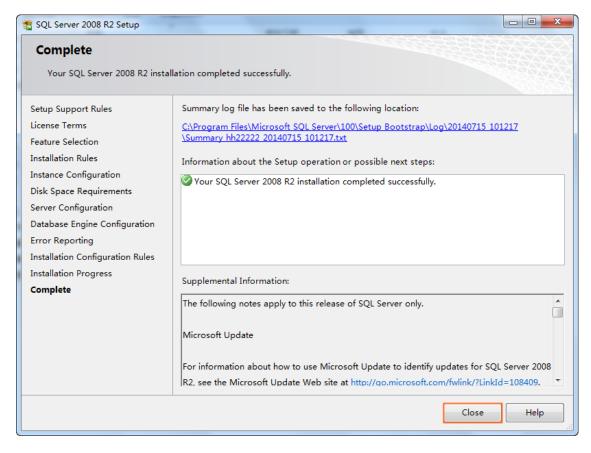
Note

- If there is no user in the "Specify SQL Server Administrators", click "Add Current User".
- If the security settings of the operating system have complexity requirements on the password, make sure the password is complex enough.
- Set the password and keep it properly for further configuration.

Step 8   Click "Next".

Step 9   Click "Close" to finish the installation.
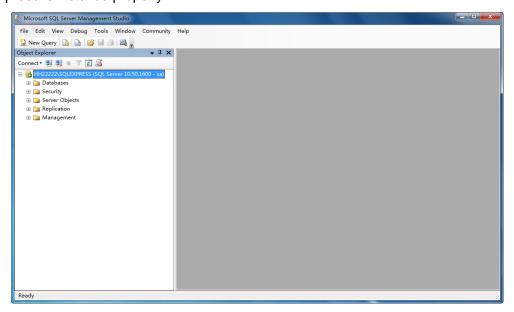
Post-installation Tasks

Step 1 Click the [icon] icon in the taskbar and choose "All Programs -> Microsoft SQL Server 2008 R2 -> SQL Server Management Studio".

Step 2 Set the following parameters according to the settings specified in 4.2.1 Installing and Configuring the Microsoft SQL SERVER 2008 Express.

Set "Authentication" to "SQL Server Authentication" and "Login" to "sa" respectively, and enter the password as set during the SQL Server installation.
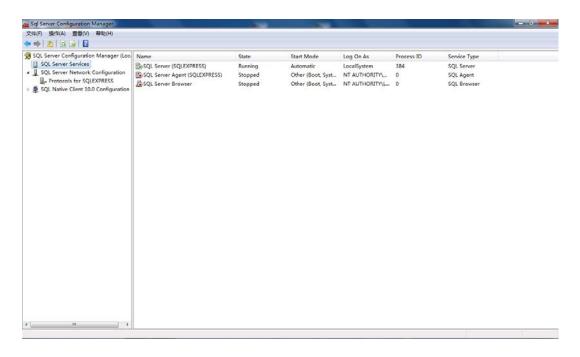
Parameter	Description	Example
Server name	Sets the database name. It consists of the computer name and database instance name.	HH22222\SQLEXPRESS
Authentication	Sets the authentication mode.	SQL Server Authentication
Login	Sets the database account. Be sure to enter "sa" in this field.	sa
Password	Enters the database password that was set during the SQL Server installation.	123456

Step 3 Click "Connect". The successful connection indicates that the Microsoft SQL Server 2008 Express is installed properly.
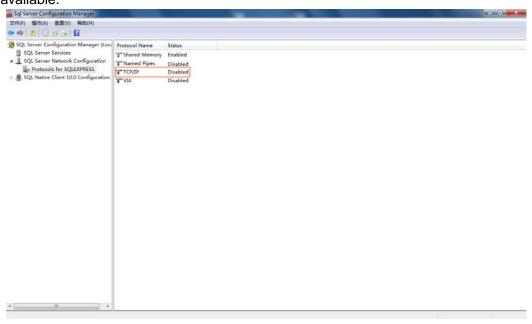

Configuring the Microsoft SQL SERVER 2008 Express

Step 1 Go to "Start -> All Programs -> Microsoft SQL Server 2008 -> Configuration Tools -> SQL Server Configuration Manager". Click the [icon] icon on the taskbar and choose "All Programs -> Microsoft SQL Server 2008 R2 -> Configuration Tools -> SQL Server Configuration Manager".
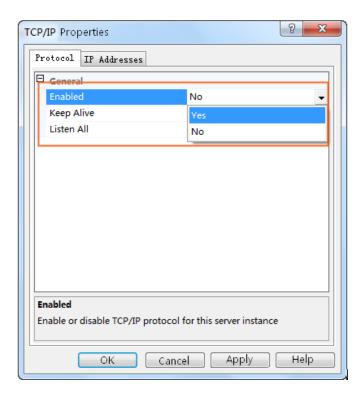
Step 2   Go to "SQL Server Network Configuration -> Protocols for SQLEXPRESS".

As the database instance name is SQLEXPRESS, the "Protocols for SQLEXPRESS" is
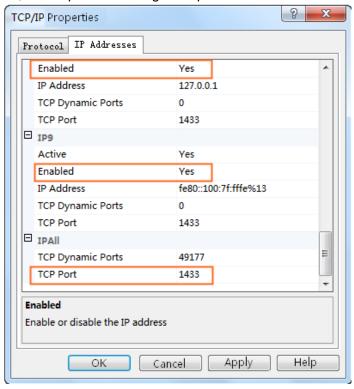
available.

Step 3   Double-click "TCP/IP" and set "Enabled" to "Yes".

Step 4 Click the "IP Address" tab and set "Enabled" to "Yes". Then set "TCP Port" to "1433" under the "IP All". Finally click "OK".
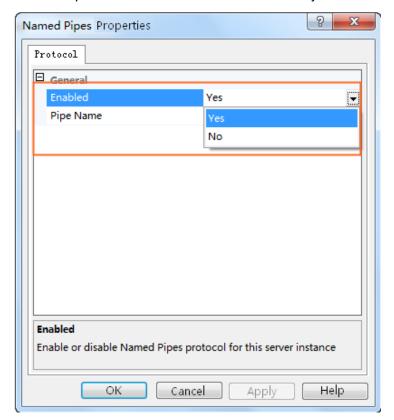
In general, the database port is "1433", and will be used later. If there is another database in the operating system, it is required to change this port.
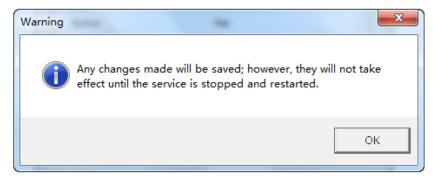

Step 5 Click "OK".

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Step 6 Double-click "Named Pipes" and set "Enabled" to "Yes". Finally click "OK".
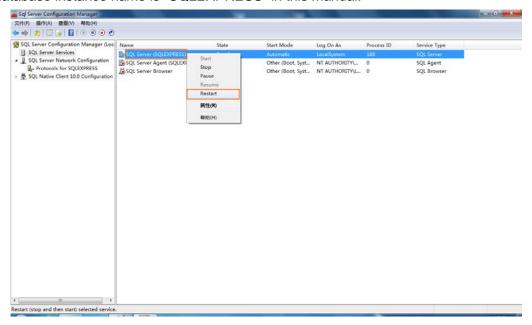

Step 7 Click "OK".

Step 8 Select "SQL Server Services" and right-click "SQL Server (SQLEXPRESS)" to select "Restart".

You must restart the database service to make your changes take effect.

Note

The database instance name is "SQLEXPRESS" in this manual.

4.2.2 Installing and Configuring the Microsoft SQL SERVER 2005 Express
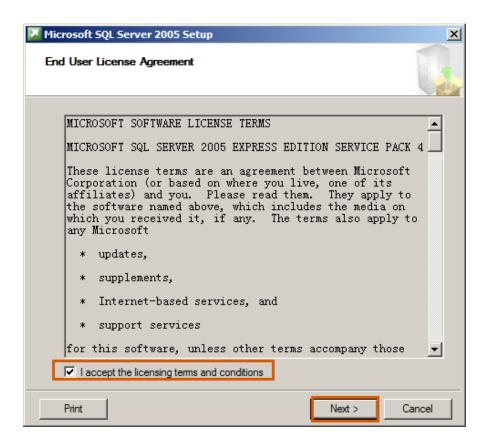
As the Microsoft .NET Framework 2.0 is not available in the installation package, you need to download it from the Microsoft website and install it before installing the Microsoft SQL Server 2005 Express.

http://www.microsoft.com/zh-cn/download/details.aspx?id=21844

When you install the Microsoft SQL SERVER 2005 Express, you need to use the following files:
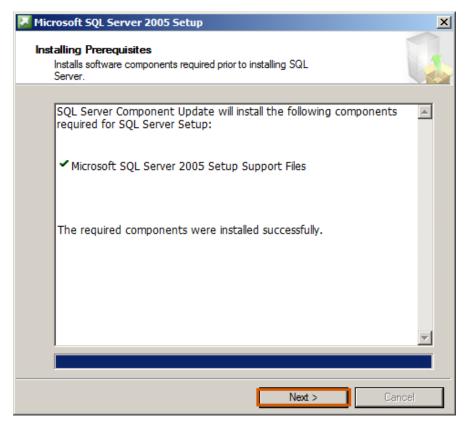
● SQLEXPR_SP4.exe: Microsoft SQL SERVER 2005 Express

● SQLServer2005_SSMSEE.msi: Microsoft SQL Server Management Studio Express

Installing and Microsoft SQL SERVER 2005 Express

Step 1   Double-click "SQLEXPR_SP4.EXE".

Step 2   Tick the checkbox "I accept the licensing terms and conditions" and click "Next".
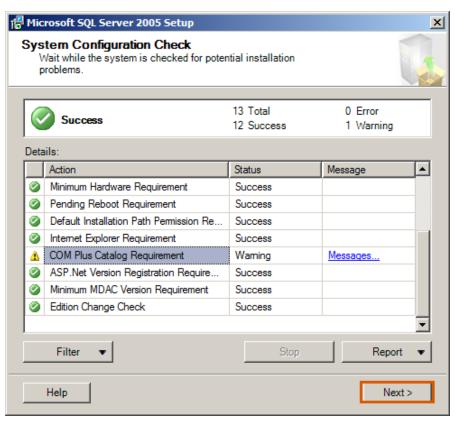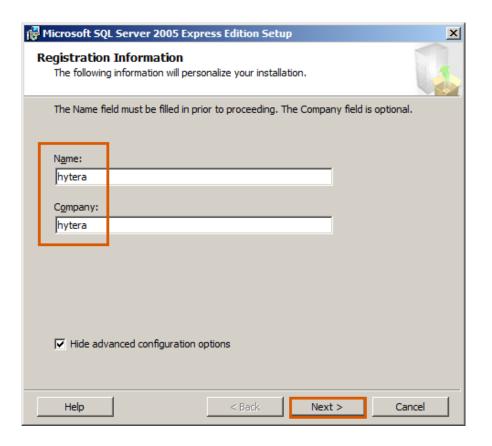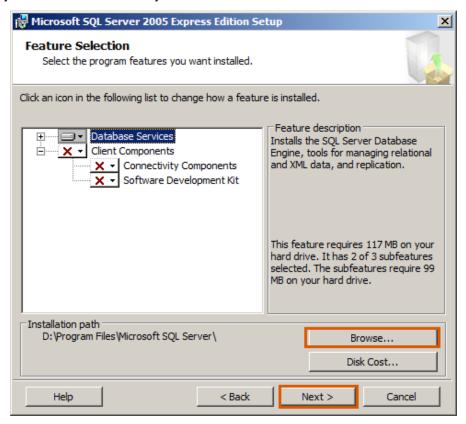
Step 3 Click "Next".

Step 4 Click "Next".

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Step 5   Click "Next".

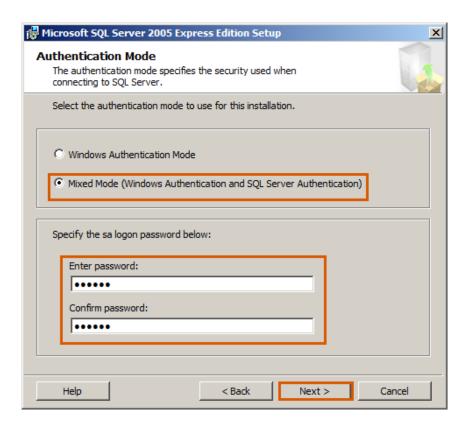**Step 6**   Enter your information and click "Next".

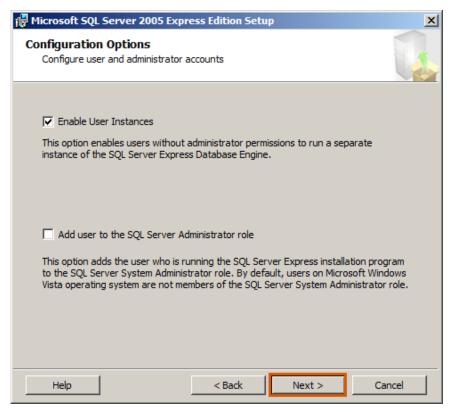**Step 7** Specify the installation directory and click "Next".

Step 8 Select "Mixed Mode" and create the password (e.g. 123456), and then click "Next".
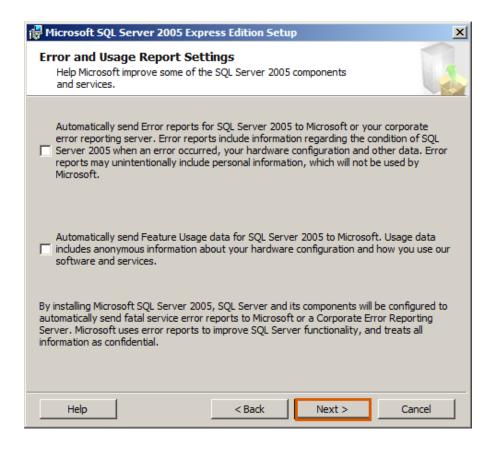
This password is the system administrator password.

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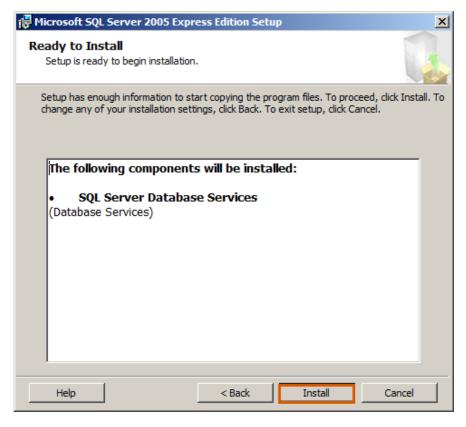
Step 9   Select "Enable User Instances" and click "Next".

Step 10 Click "Next".
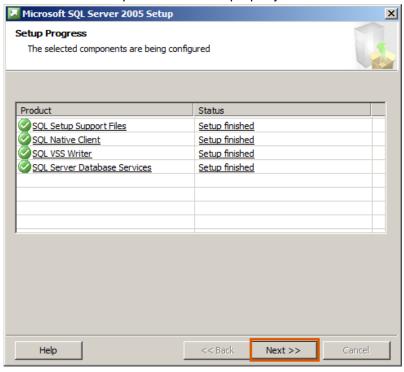
Step 11 Click "Install".

Step 12 Click "Next" after the installation is complete.

Check whether all selected components are installed successfully. If yes, it indicates that the Microsoft SQL Server 2005 Express is installed properly.

Step 13 Click "Finish" to complete the installation.
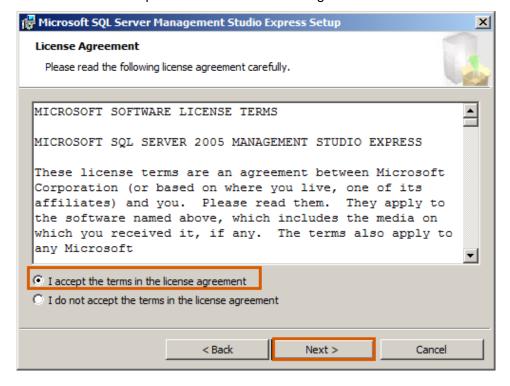
Installing the Microsoft SQL Server Management Studio Express

Step 1   Double-click "SQLServer2005_SSMSEE.msi".
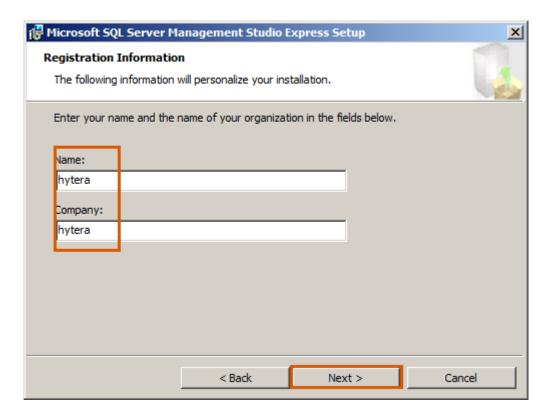
Step 2   Click "Next".
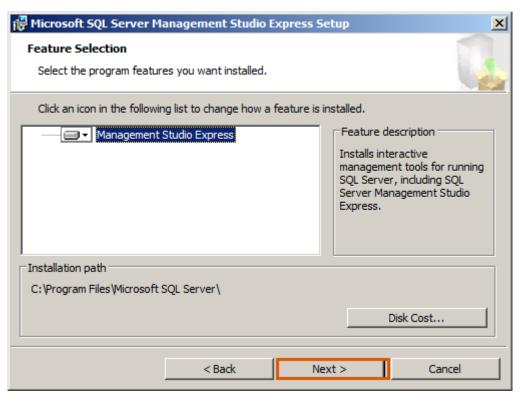
Step 3   Tick the check box "I accept the terms in the license agreement" and click "Next".
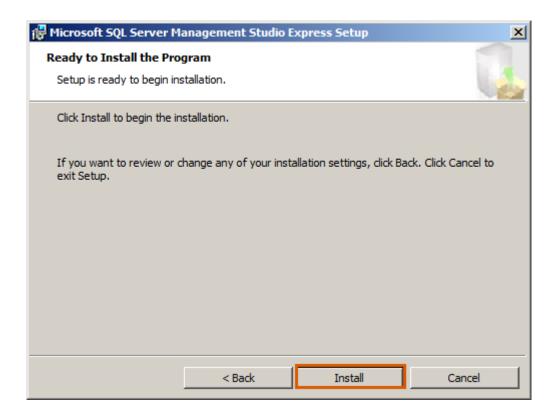
Step 4   Enter your information and click "Next".

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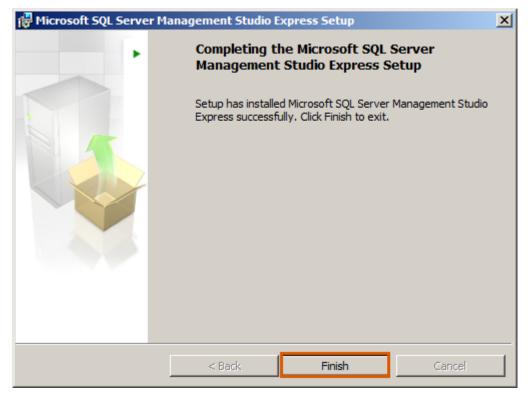
Step 5 Click "Next".
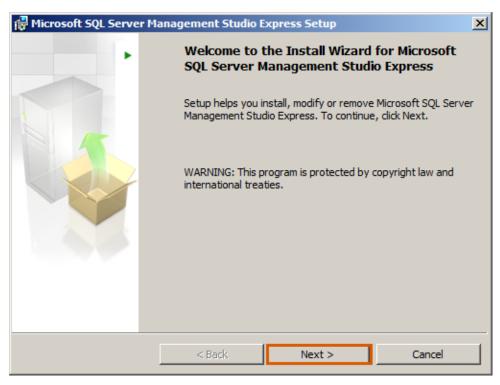

Step 6 Click "Install".

Step 7   Click "Finish" to complete the Microsoft SQL Server Management Studio Express installation.

Post-installation Tasks
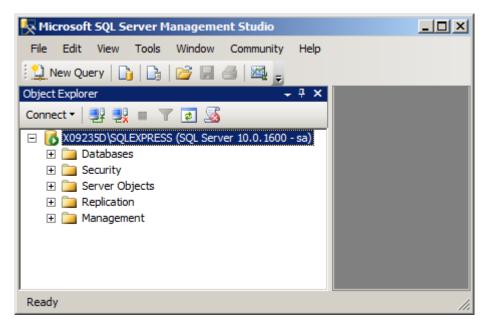
Step 1   Go to "Start -> All Programs -> Microsoft SQL Server 2005 -> SQL Server Management Studio Express".

Step 2   Set "Authentication" to "SQL Server Authentication", "Login" to "sa" and "Password" to "123456"

respectively.
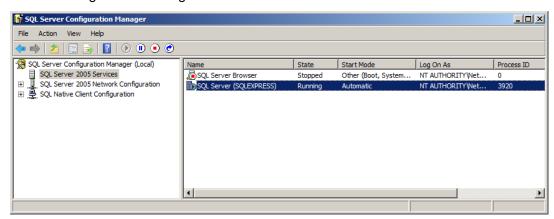
| Parameter	Description	Example
Server name	Sets the database name. It consists of the computer name and database instance name.	X09235D\SQLEXPRESS
Authentication	Sets the authentication mode.	SQL Server Authentication
Login	Sets the database account. Be sure to enter "sa" in this field.	sa
Password	Sets the database password.	123456

Step 3   Click "Connect". The successful connection indicates that the Microsoft SQL Server

Management Studio is installed properly.
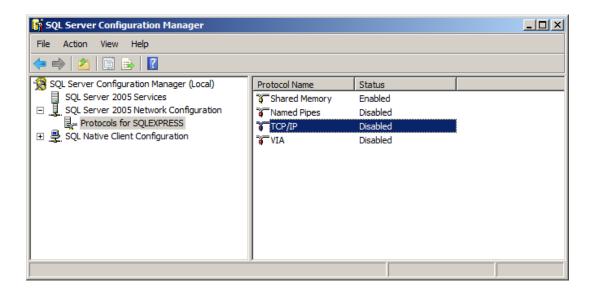
Configuring the Microsoft SQL SERVER 2005 Express

Step 1   Go to "Start -> All Programs -> Microsoft SQL Server 2005 -> Configuration Tools -> SQL

Server Configuration Manager".
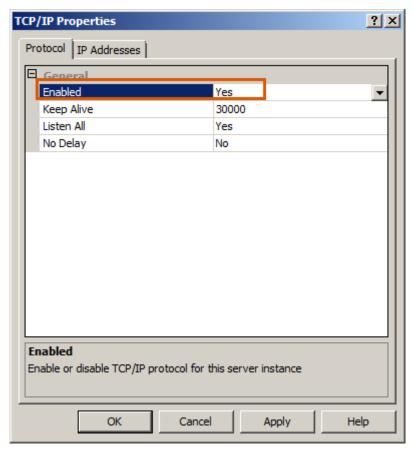
Step 2   Go to "SQL Server 2005 Network Configuration -> Protocols for SQLEXPRESS".

The database name (e.g. SQLEXPRESS) is subject to the actual conditions.
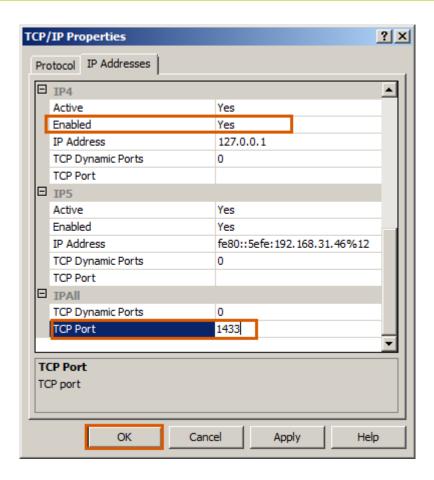
Step 3   Double-click "TCP/IP" and set "Enabled" to "Yes".
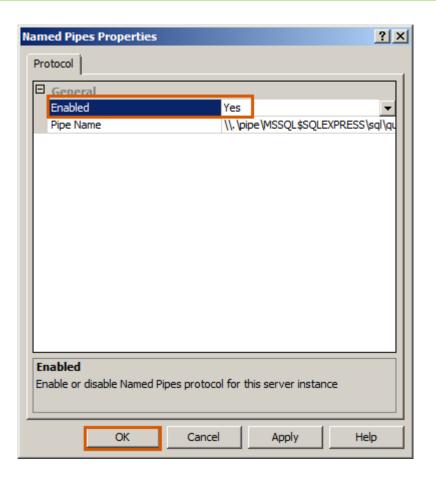
Step 4   Click the "IP Address" tab and set "Enabled" to "Yes". Then set the "TCP Port" to "1433" under the "IP All".

In general, the database port is "1433", and will be used later. If there is another database in the operating system, it is required to change this port.

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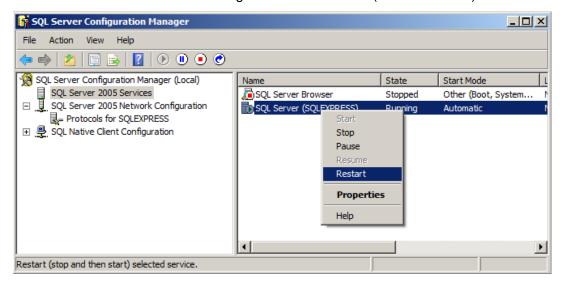
Step 5 Click "OK" and the dialog box appears. Then click "OK".

Step 6 Double-click "Names Pipes" and set "Enabled" to "Yes".

Step 7   Click "OK".

Step 8   Select "SQL Server Services" and right-click "SQL Server (SQLEXPRESS)" to select "Restart".

4.3 Installing the Customer Programming Software

Make sure that you get the appropriate Customer Programming Software (V6.05.xx.xxx or later). To install this software, see its online Help.

4.4 Installing the USB Driver Program

Make sure that you get the appropriate USB driver program (V5.30.41.0 or later). To install this program, see its online Help.

4.5 Installing the SmartDispatch Components

As the installation disc contains all software components including the SmartDispatch Server, SmartDispatch Gateway and SmartDispatch Client, you need to manually select the appropriate one during installation. The default license, only covering five radios, is integrated in the SmartDispatch software and good for 60 days from the date of installation. If the default license has expired or you need a license to cover more radios, you must apply for it. For more information, see 5.2 Applying for a License.

SmartDispatch can be installed via clean installation or upgrade installation.

4.5.1 Clean Installation

⚠️**Caution**
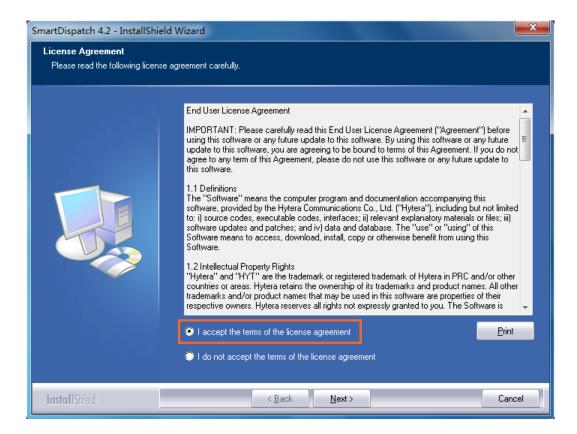
During installation, the installation windows of the Microsoft Visual C++ 2008, Microsoft Visual C++ 2010, Microsoft SQL Server Native Client and Microsoft .NET Framework 4 programs may appear. If these programs already exist in the operating system, the relevant installation window may not appear or the repair window may appear.
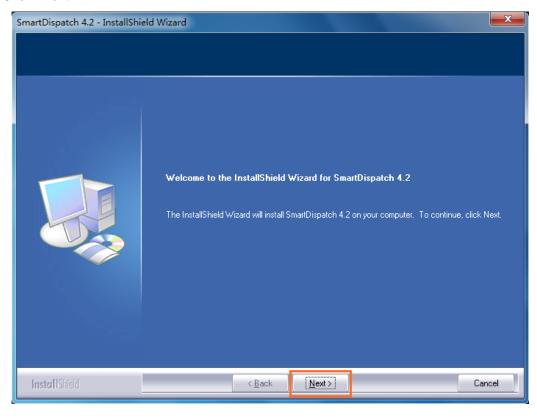
Step 1   Double-click the setup file.

Step 2   Select the language and click "OK".
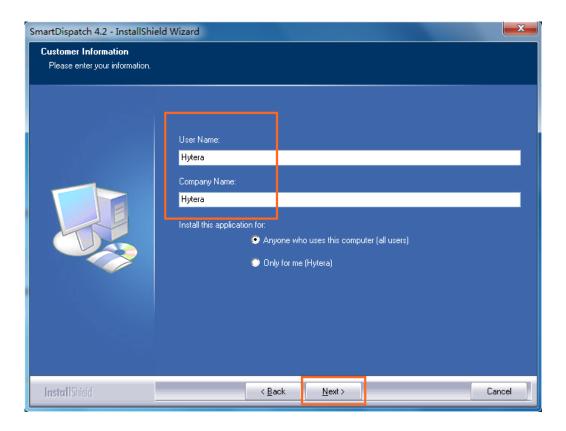
Step 3   Tick the checkbox "I accept the terms of the license agreement" and click "Next".

Step 4   Click "Next".
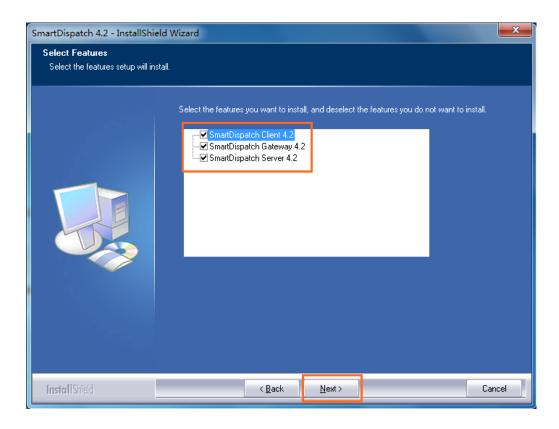
Step 5   Enter your information and click "Next".
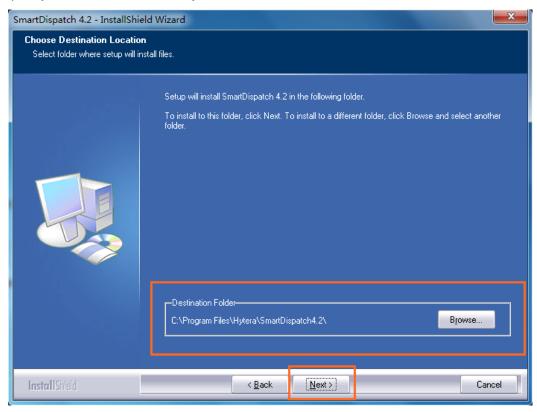
Step 6   Select the software component to be installed and click "Next". The following describes the

procedures for installing the SmartDispatch Client, SmartDispatch Gateway and SmartDispatch

Server on the same computer.

⚠️**Caution**

➢   Make sure that your computer is not in the power saving mode; otherwise, the

SmartDispatch service will be stopped, resulting in system malfunctions.

➢   You can install all SmartDispatch software components on the same computer or on
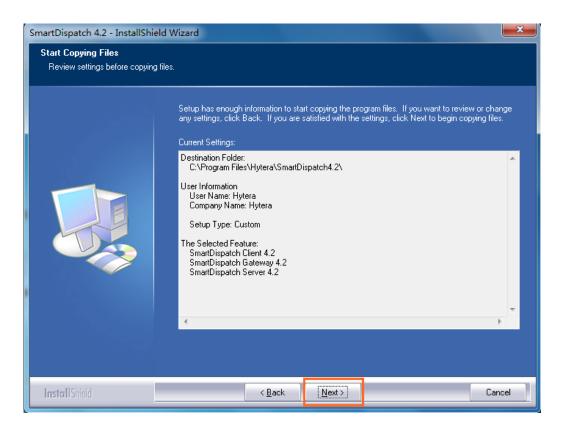
different computers respectively, on the basis of your actual needs.

Step 7   Specify the installation directory and click "Next".
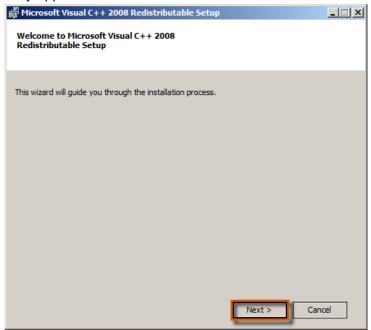
Step 8   Verify the installation information and click "Next".
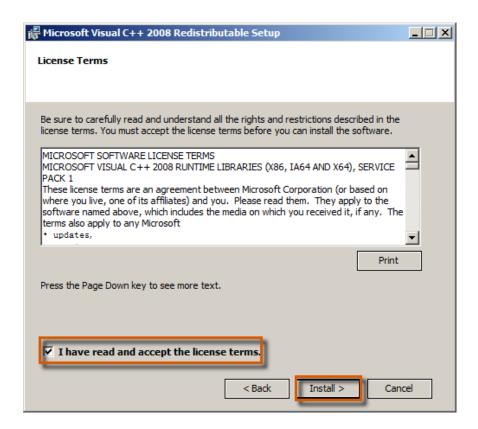
Step 9 Click "Next".
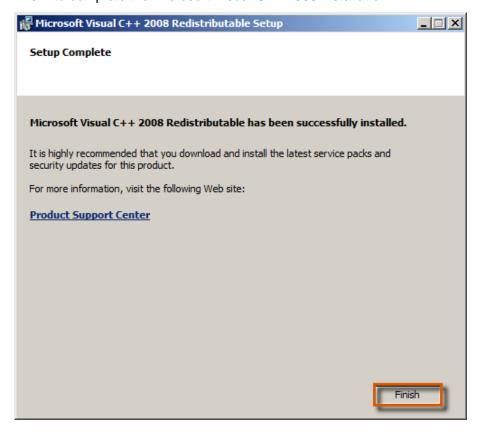
If you install the SmartDispatch for the first time, the "Microsoft Visual C++ 2008 Redistributable Setup" window will appear; otherwise, the relevant installation window may not appear or the repair window may appear.

Step 10 Tick the checkbox "I have read and accept the license terms" and click "Install".
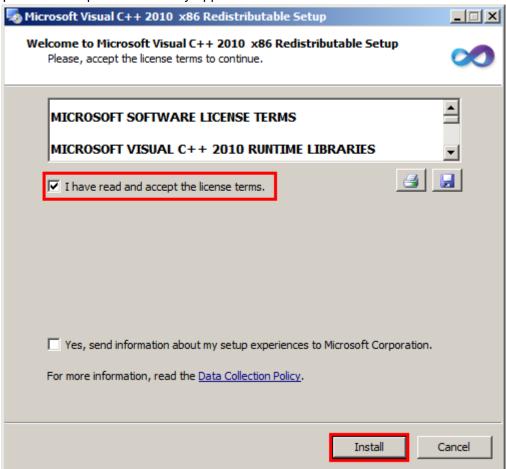
Step 11 Click "Finish" to complete the Microsoft Visual C++ 2008 installation.
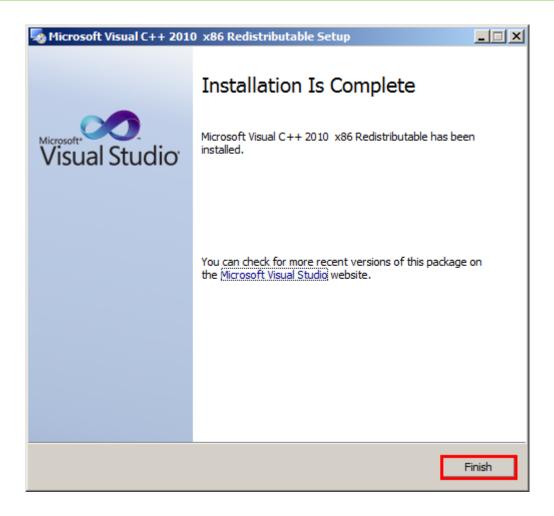
Step 12 Tick the checkbox "I have read and accept the license terms" and click "Install".

If you install the SmartDispatch for the first time, the "Microsoft Visual C++ 2010 x86 Redistributable Setup" window will appear; otherwise, the relevant installation window may not appear or the repair window may appear.
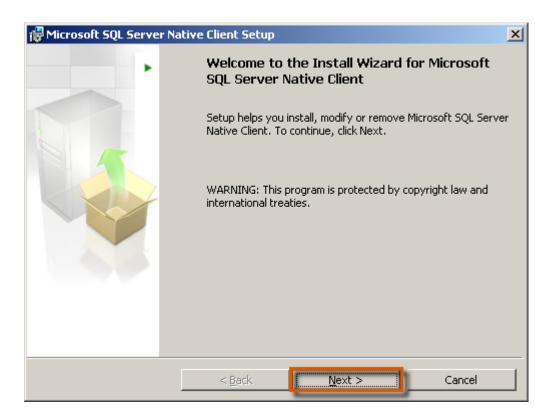
Step 13 Click "Finish" to complete the Microsoft Visual C++ 2010 x 86 installation.
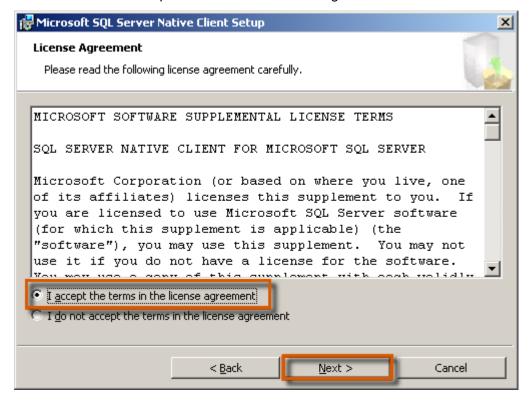
Step 14 Click "Next".
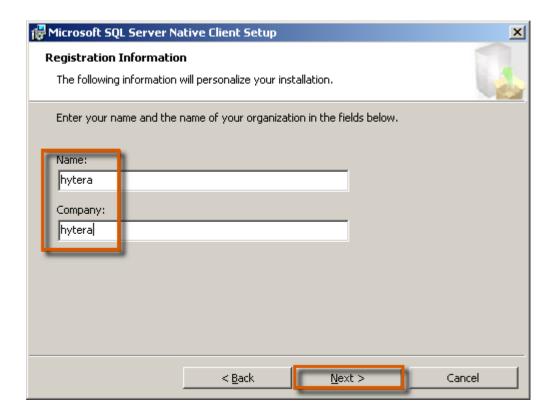
If you install the SmartDispatch for the first time, the "Microsoft SQL Server Native Client"

window will appear.
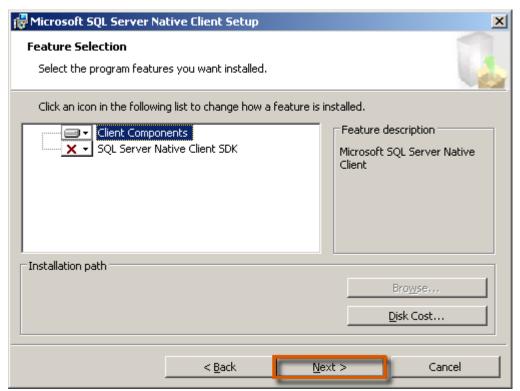
Step 15 Tick the check box "I accept the terms in the license agreement" and click "Next".
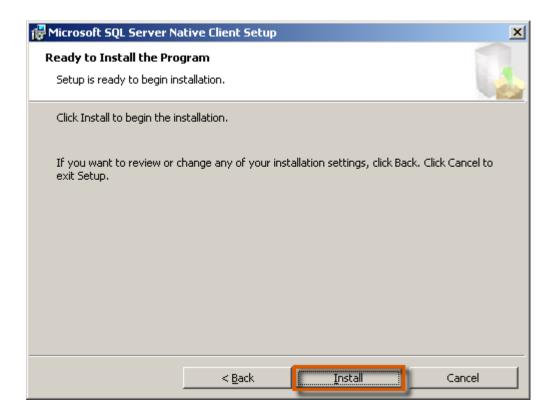
Step 16 Enter your information and click "Next".

Step 17 Click "Next".

Step 18 Click "Install".

Step 19 Click "Finish".
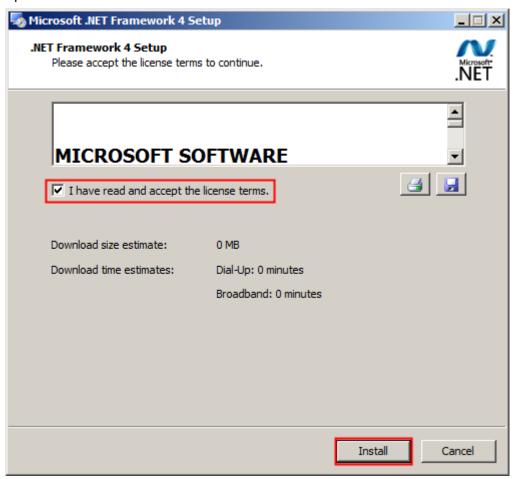
Step 20 Tick the checkbox "I have read and accept the license terms" and click "Install".

The "Microsoft .NET Framework 4 Setup" window appears at this time. Otherwise, the relevant installation window may not appear or the repair window may appear.

Note
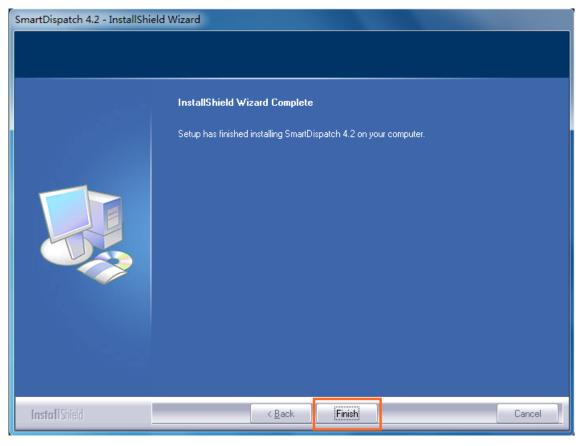
The "Microsoft .NET Framework 4 Setup" window only appears in the process of installing the

SmartDispatch Client.

Step 21 Click "Finish".

Step 22 Click "Finish" to complete the SmartDispatch installation.
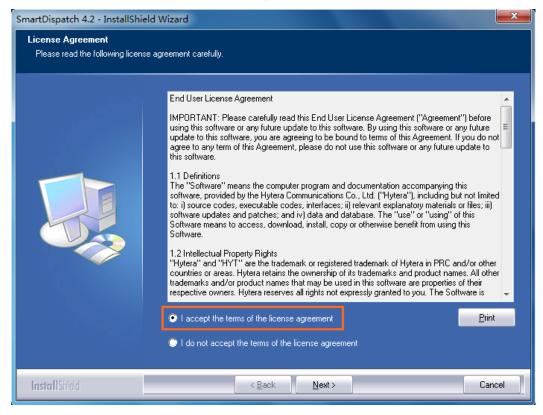
Step 23 Restart the operating system to activate the Microsoft .NET Framework. Otherwise, you can not open the SmartDispatch Client.

4.5.2 **Upgrade Installation**
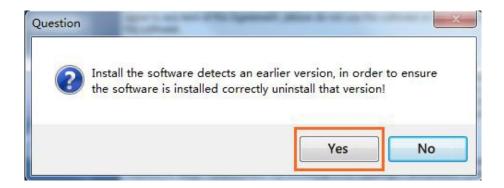
Step 1   Double-click the setup file.

Step 3   Select the language and click "OK".
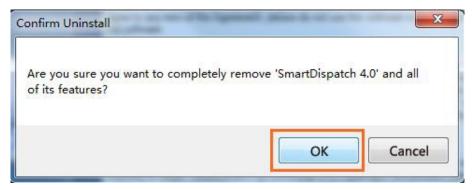
Step 4   Select "I accept the terms of the license agreement" and click "Next".
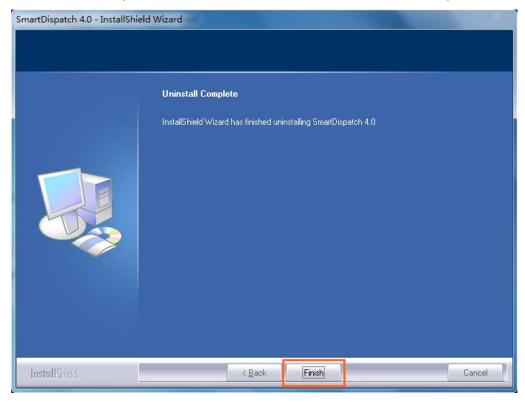
Step 5   Click "Yes" in the dialog box which appears upon detection of an earlier version of SmartDispatch.
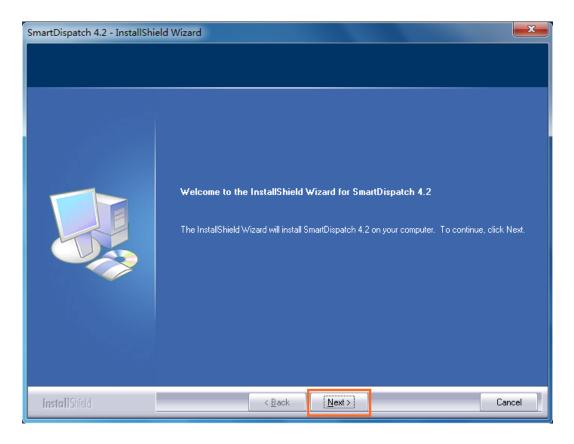
Step 6　Click "OK".
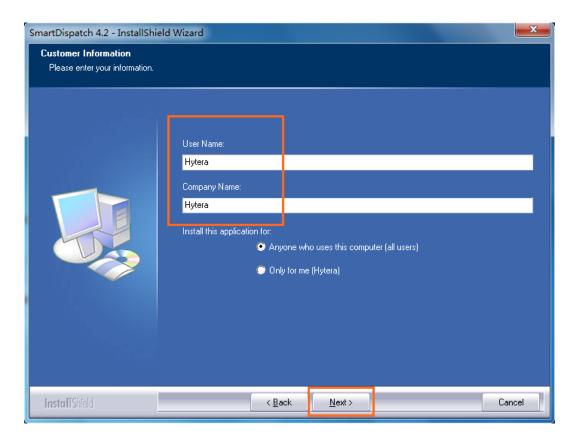
Step 7　Click "Finish" to complete uninstallation of the earlier version of SmartDispatch.

Step 8　Click "Next".
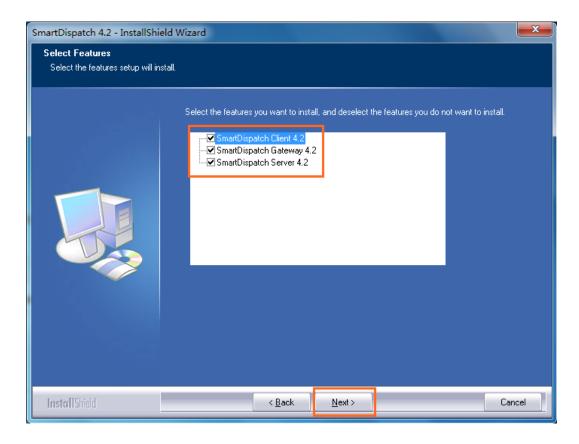
Step 9   Enter your information and click "Next".
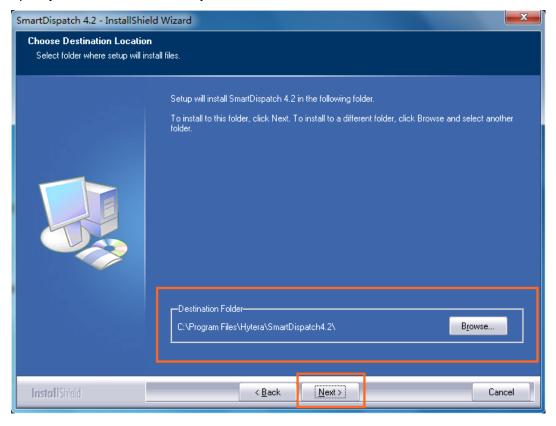
Step 10 Select the software component to be installed. The following describes the procedures for

installing the SmartDispatch Client, SmartDispatch Gateway and SmartDispatch Server on the

same computer.

⚠️**Caution**

➢ Make sure that your computer is not in the power saving mode; otherwise, the SmartDispatch

service will be stopped, resulting in system malfunctions.

➢ You can install all SmartDispatch software components on the same computer or on different
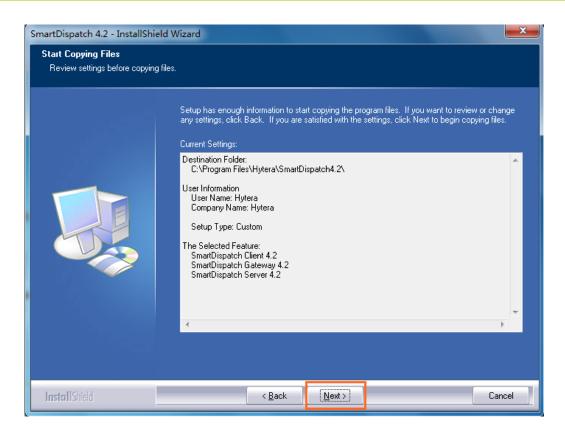
computers respectively, on the basis of your actual needs.
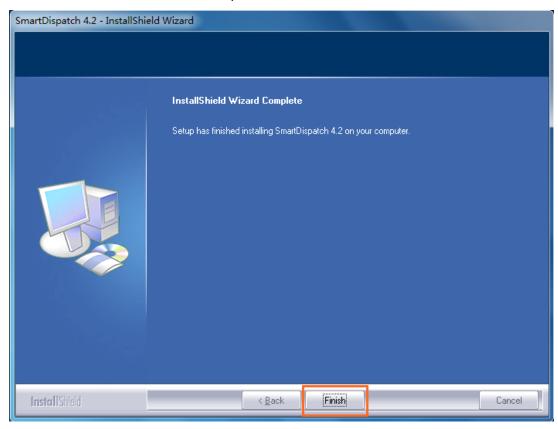
Step 11 Specify the installation directory and click "Next".

Step 12 Confirm the installation information and click "Next".

Step 13 Click "Finish" to finish the SmartDispatch installation.

4.6 Post-installation Tasks

If SmartDispatch is installed properly, you can log in to the SmartDispatch Client and open the console.

4.6.1 Checking the SmartDispatch Server

Context

After the SmartDispatch Server has been installed properly, both the "SmartDispatch Server Console" icon and "SmartDispatch Server Config Tool" icon will appear on the desktop.   Their functions are specified as below:

⚠️**Caution**

> Make sure that the database has been installed and configured properly before check.

● SmartDispatch Server Console: displays all information involving the SmartDispatch Client, SmartDispatch Gateway, dispatch station, plug-in, statistics and log.

● SmartDispatch Server Config Tool: configures the port, audio codecs, database, etc.

In the SmartDispatch Server Console, the server will automatically detect whether all plug-ins are loaded properly. After the license is imported properly and the database is connected properly, the icon ✅ will appear in the "Plug-in" tab upon starting the console service.

Requirement
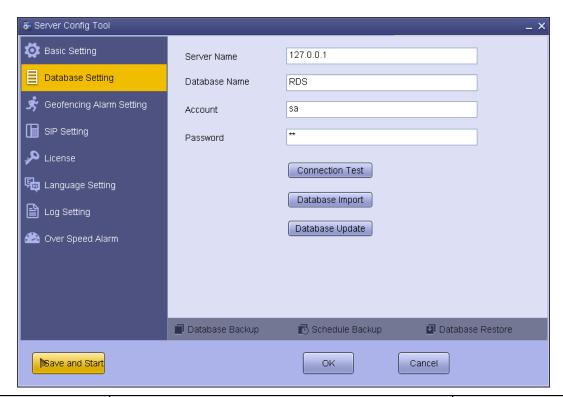
Both the database and SmartDispatch Server are installed on the same computer.

The database has been installed and configured properly.

Procedure
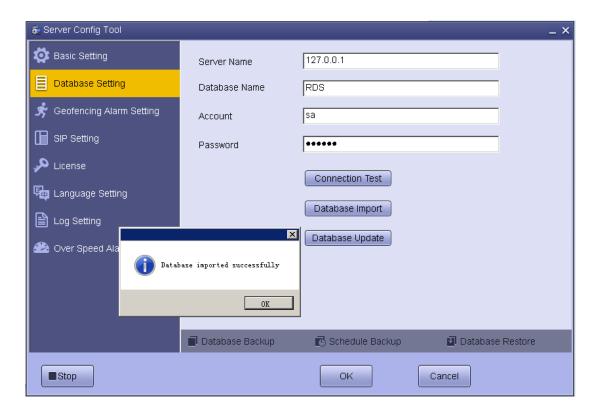
Step 1   Right-click "SmartDispatch Server Config Tool" on the desktop and select "Run as administrator".

Step 2   Click "Database Settings" and modify the account and password.

Parameter	Description	Example
Server IP	Sets the name of the database server (e.g. PC-201005131440\SQLEXPRESS). If there is only one database instance in the computer, you can enter the IP address in this field.	127.0.0.1
Alias	Sets the instance name of the database. The default alias is "RDS".	RDS
Account	Indicates the database account. Be sure to enter "sa" in this field.	sa
Password	Sets the password specified during database installation.	123456
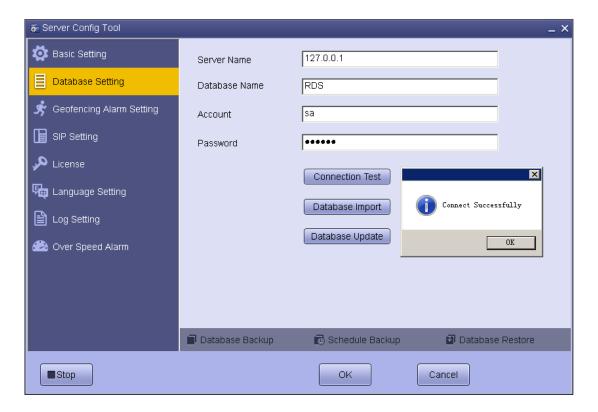
Step 3   Import or update the database.

- If you want to use a brand new database, click "Database Import".

- If you want to retain existing data of the old database, click "Database Update".
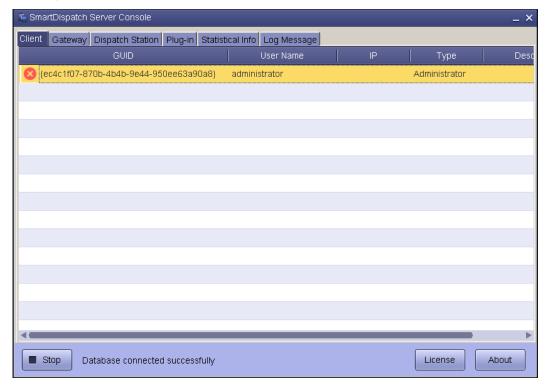
⚠️**Caution**
Make sure you click "Database Update" if you want to retain existing data of the old database. Otherwise, the existing data may be damaged or lost.

Step 4   Click "Connection Test". After successful connection, the relevant dialog box will appear. Then click "OK" in the dialog box.
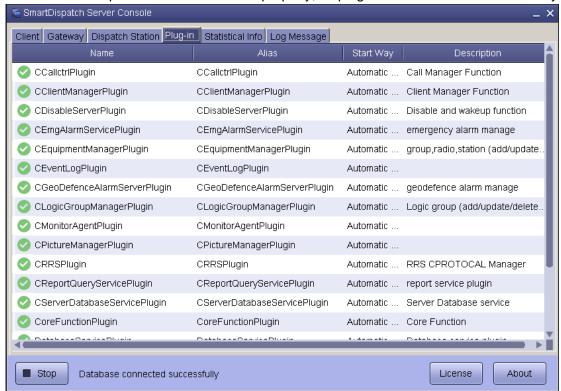
Step 5   Click "Save and Start".

Step 6   Right-click the "SmartDispatch Server Console" icon on the desktop and select "Run as administrator", and then right-click the icon   in the taskbar and select "Display". The following window will appear.

Step 7   Click the "Plug-in" tab.

If the SmartDispatch Server is installed properly, all plug-ins can be loaded successfully.

4.6.2 Checking the SmartDispatch Gateway

Context
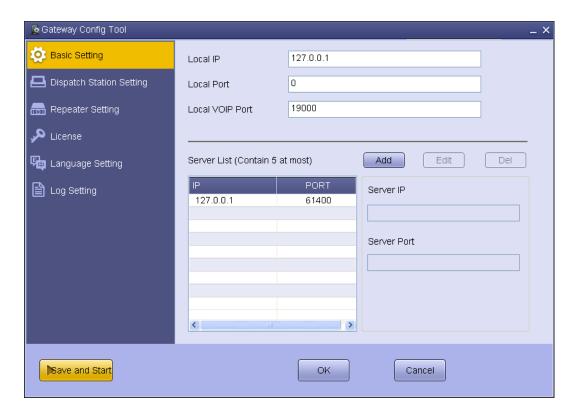
After the SmartDispatch Gateway has been installed properly, both the "SmartDispatch Gateway Console" icon and "SmartDispatch Gateway Config Tool" icon will appear on the desktop.   Their functions are specified as below:

- SmartDispatch Gateway Console: displays the dispatch station list, server list, statistical information and log information.

- SmartDispatch Gateway Config Tool: configures the IP address and port, audio codecs, dispatch station, language, etc.

Procedure
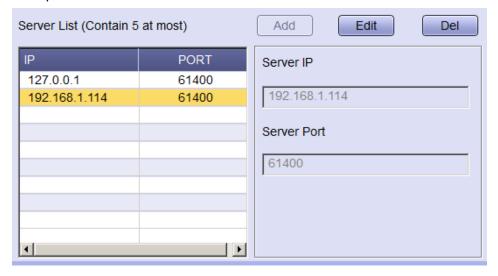
Step 1   Right-click "SmartDispatch Gateway Config Tool" on the desktop and select "Run as administrator".

Step 2   Click in the blank area of the "Server List" pane, and click "Add" to add a server.

⚠️**Caution**

If the SmartDispatch Gateway and SmartDispatch Server are installed on the same computer, you

can skip the step above.

Step 3   Click "Save and Start".
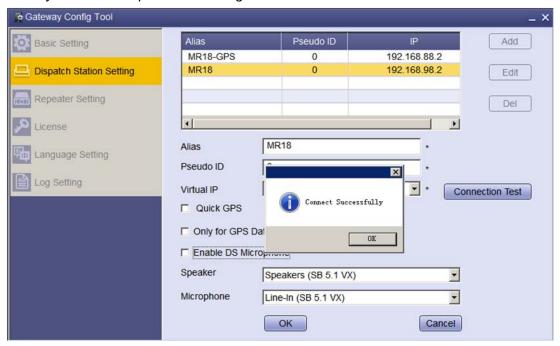
If you make any change in this tab, the button will change from "Start" to "Save and Start".

Step 4   Click "Dispatch Station Settings" and add a dispatch station. Then click "Connection Test".

If the connection test is successful, it indicates that the dispatch station can communicate with
the SmartDispatch Gateway properly.

⚠️**Caution**

The dispatch station to be added must be programmed properly. For more information, see
Hytera SmartDispatch-Net Configuration Guide.
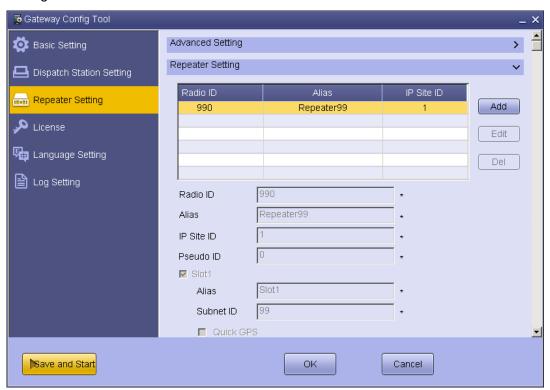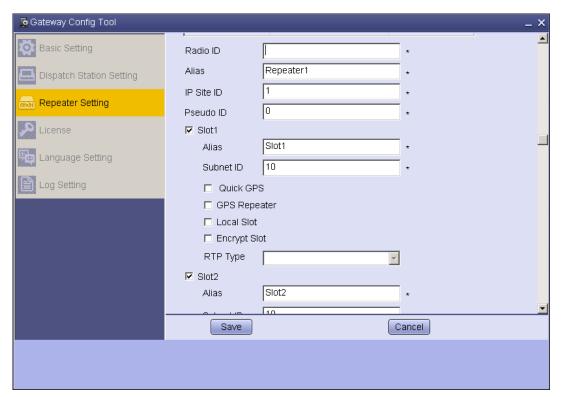
Parameter	Description	Example
Alias	Sets the alias of the dispatch station.	MR7
Pseudo ID	Sets the pseudo ID. Such ID in the same pseudo trunking must be identical. If this parameter is set to 0, it means that the Pseudo Trunking feature is not enabled for the dispatch station. ⚠️**Caution** To activate the Pseudo Trunking feature, there must be two dispatch stations in the same group but on different slots.	0
Virtual IP	Sets the virtual IP of the dispatch station. It consists of four sections. The first three sections are the same as those of the IP address defined in the Customer	192.168.87.2

Parameter	Description	Example
	Programming Software, while the last section is one greater than that of the IP address. For example, if the dispatch station IP is 192.168.87.1, the virtual IP should be 192.168.87.2.	
Connection Test	Tests whether the dispatch station is connected properly.	
Enable DS Microphone	Sets whether to activate the microphone. If you use the microphone to talk, only the voice from the microphone will not be recorded. However, the relevant call records involving the microphone still exist.	☑
Quick GPS	● Checked: the dispatch station will only be used as the quick GPS data station, unable to transmit the audio signal. Then you need to set another dispatch station for audio transmission. Only when the dispatch station is used to transmit quick GPS data can the SmartDispatch distinguish the quick and normal GPS data. ● Unchecked: the dispatch station will transmit both the audio signal and GPS data.	☐
GPS Dispatch Station	Sets whether the dispatch station is used to transmit the GPS data.	☐
Speaker	Sets the name of the speaker. If the "GPS Dispatch Station" option is	Speakers (SB 5.1 VX)

Parameter	Description	Example
	selected, this option is not available.	
Microphone	Sets the name of the microphone. If the "GPS Dispatch Station" option is selected, this option is not available.	Line-In (SB 5.1 VX)

Step 5   Click "Repeater Setting", and click "Add" to add a repeater. Then click "Save" to save your settings.

Parameter	Description	Example
Radio ID	Sets the SSI of the repeater.	92
Alias	Sets the alias of the repeater.	Repeater3
IP Site ID	Sets the ID of the IP Multi-site Connect network. SmartDispatch determines which IP Multi-site Connect network the repeater belongs to according to this ID. The data from the repeater is only transmitted within this IP Multi-site Connect network.	1
Pseudo ID	Sets the pseudo ID. If this parameter is set to 0, it means that the Pseudo Trunking feature is not enabled.	
Slot1	Slot 1	☑
Alias	Sets the alias of the slot.	Slot1
Subnet ID	Sets the ID of the subnet consisting of the repeater and the radios under that repeater. You need to set the subnet ID for the radios under that repeater during programming. Please note that the subnet ID of the repeater and radios within the same	21

Parameter	Description	Example
	subnet must be identical.	
Quick GPS	● Checked: the slot can only transfer quick GPS data, and another slot is needed to transfer audio signal. Only when the slot is used to transmit quick GPS data can the SmartDispatch distinguish the quick and normal GPS data. ● Unchecked: the slot will transfer both audio signal and GPS data.	☐
GPS Repeater	If you select this option, the slot is in charge of transmitting the GPS data. Otherwise, this slot is used to transmit the audio signal.	☐
Local Slot	The slot is only used for local data transmission.	☐
Encrypt Slot	This option must be selected if you need to encrypt the voices. Be sure to set "RTP Type" to "RTP_SELP".	☐
RTP Type	Sets the audio format for transmission. Be sure to set it to "RTP_SELP".	RTP_SELP
Slot2	Slot 2.	☑
Alias	Sets the alias of the slot.	Slot2
Subnet ID	Sets the ID of the subnet consisting of the repeater and radios. You need to set the subnet ID for the radio during programming. Please note that the subnet ID of the repeater and radios subnet must be identical.	21
Quick GPS	● Checked: the slot can only transfer quick GPS data, and another slot is needed to transfer audio signal. Only when the slot is used to transmit quick GPS data can the SmartDispatch distinguish the quick and normal GPS data. ● Unchecked: the slot will transfer both audio signal and GPS data.	☐

| Parameter	Description	Example
GPS Repeater	If you select this option, the slot is in charge of transmitting the GPS data. Otherwise, this slot is used to transmit the audio signal.	☑
Local Slot	If you select this option, the slot is only used for local data transmission.	☐
Encrypt Slot	This option must be selected if you need to encrypt the voices. Be sure to set "RTP Type" to "RTP_SELP".	☐
RTP Type	Sets the audio format for transmission. Be sure to set it to "RTP_SELP".	RTP_SELP
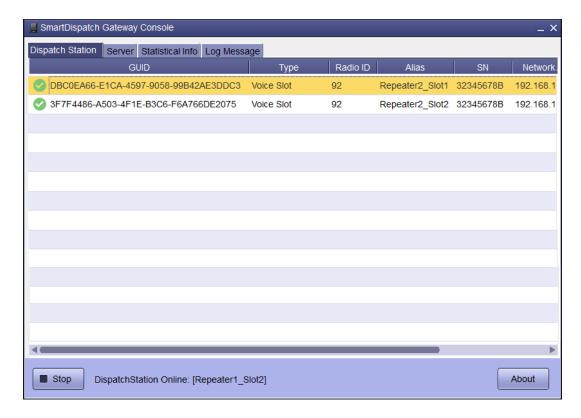
Step 6 Open the "SmartDispatch Gateway Console" and click the "Server" tab to check the connection between the SmartDispatch Gateway and SmartDispatch Server.

If the icon ✅ appears, it indicates successful connection between SmartDispatch Gateway and SmartDispatch Server.

Step 7 Click the "Dispatch Station" tab to check the connection status of the repeater.

If the icon ✅ appears, it indicates successful connection between SmartDispatch Gateway and repeater.

4.6.3 Checking the SmartDispatch Client

Context

After the SmartDispatch Client has been installed properly, the "SmartDispatch Client 4.2" icon will appear on the desktop.

Procedure

Step 1   Right-click "SmartDispatch Client 4.2" on the desktop and select "Run as administrator".

Step 2   Click "Setting".
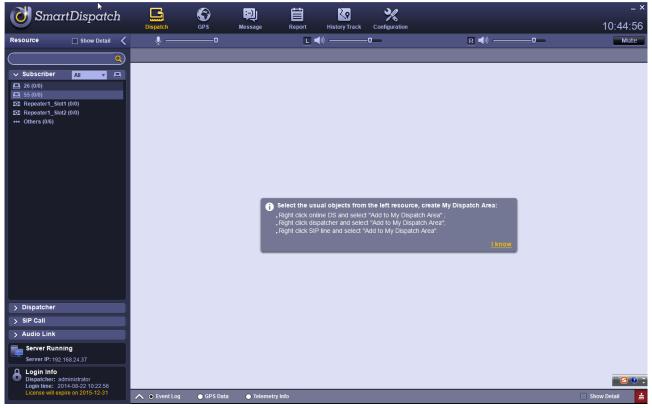
Step 3   Set all parameters.

Both the user name and password for the administrator account are "admin" by default. If the

SmartDispatch Client is installed properly, you can log in to it successfully.

⚠️**Caution**

The server IP must be identical with that in the SmartDispatch Gateway.

The main window appears after successful login.
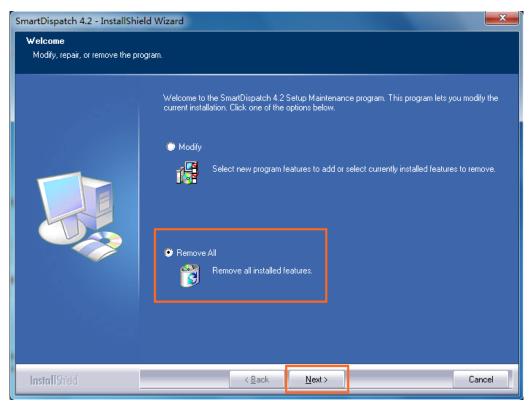
5. Appendix

5.1 Uninstalling SmartDispatch

Requirement

Make sure that the SmartDispatch Server Console and SmartDispatch Gateway Console are not active.

Procedure

Step 1   Click the [icon] icon in the taskbar and choose "All Programs -> Hytera -> SmartDispatch 4.2 -> Remove SmartDispatch 4.2".
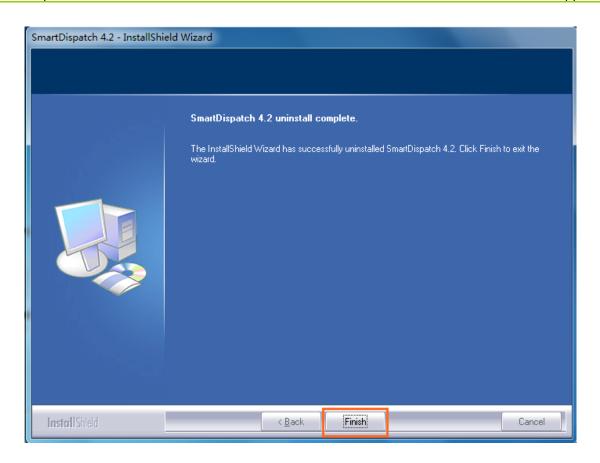
Step 2   Select "Remove All" and click "Next".

Step 3   Click "Yes" in the dialog box.

Step 4   Click "Finish" after the uninstallation is complete.

5.2 Applying for a License

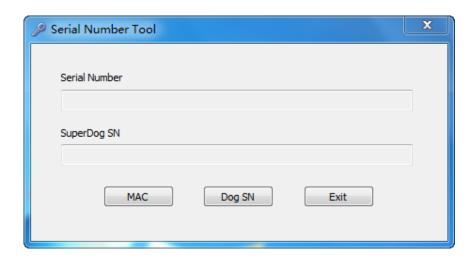The License is required for normal operations of the SmartDispatch Server and SmartDispatch Gateway.

When SmartDispatch is bound to the Mac address of PC

● If the SmartDispatch Server and SmartDispatch Gateway are installed in the same computer, only one License is needed. After obtaining the License file, save it to the installation directory of the server and the gateway respectively.

● If the SmartDispatch Server and SmartDispatch Gateway are installed in different computers, you will need to apply for different Licenses according to the computer machine IDs. Save the License files to the corresponding installation directories.

When SmartDispatch is bound to the SN of the USB dongle

You only need to apply for a License according to the serial number (SN) of the USB dongle. See the following steps for the application.

Step 1   Click the [icon] icon in the taskbar and choose "All Programs -> Hytera -> SmartDispatch 4.2 -> Serial Number Tool".

Step 2   Generate a serial number, and send it to your dealer to apply for the License.

- If the SmartDispatch is bound to the Mac address of the computer, click "MAC".

- If the SmartDispatch is bound to the serial number of the USB dongle, click "Dog SN".