

Version 3.0

Installation Guide

for

SQL Server 2005 Express Edition

Table of contents	Page
Section 1 Introduction	3
Section 2 Setup Microsoft SQL Server 2005 Express Edition	4
Section 3 Setup SQL Server 2005 Express Edition with Advanced Services SP2	12
Section 4 SQL Server Configuration	20

Section 1 Introduction

Prior to IP-guard v3.0 installation, database must be installed on the IP-guard server. IP-guard v3.0 supports SQL Server 2000 SP4 or later, SQL Server 2005 SP1 or later for database.

The free version of Microsoft SQL Server 2005 Express Edition is available for download, the limitation of this free version is the data capacity is 4GB. Please refer to official website: <u>http://msdn2.microsoft.com/en-us/express/aa718378.aspx</u>

You are recommended to download following components:

- 1. Microsoft SQL Server 2005 Express Edition (36.5 MB)
- 2. Microsoft SQL Server 2005 Express Edition with Advanced Services (234 MB)
- 3. SQL Server Management Studio Express (43.1 MB)

Section 2 Setup Microsoft SQL Server 2005 Express Edition

1. Double click the SQLEXPR32.EXE, click the Execute button to start the installation (see Figure 2.1)

開啓檔案 - 安全性警告		
是否要執行這個檔案?		
名稱: <u>SQLEXPR32.EXE</u> 發行者: <u>Microsoft Corporation</u> 類型: 應用程式 來自: C:\share\SQL Server 2005 Express\1.Install Microso 執行(R) 取消		
☑ 開啓這個檔案前一定要先詢問(₩)		
雖然來自網際網路的檔案可能是有用的,但是這個檔案類型 有可能會傷害您的電腦。諸只執行來自您所信任發行者的軟 體。有什麼樣的風險?		

Figure 2.1

2. Tick in the checkbox to agree the En User License Agreement (see Figure 2.2)

🛃 Mie	crosoft SQL Server 2005 Setup	×
End	d User License Agreement	
		_
	MICKUSUPI SUPI WAKE LICENSE IEKMS	<u>^</u>
	MICROSOFT SQL SERVER 2005 EXPRESS EDITION SERVICE PACK 2	
	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft	
	* updates,	
	* supplements,	
	* Internet-based services, and	
	* support services	
	for this software, unless other terms accompany those items. If so, those terms apply.	
	J	*
	I accept the licensing terms and conditions	
	Print Cance	el

Figure 2.2

3. Click **Install** to continue (see Figure 2.3a and 2.3b)

💹 Microsoft SQL Server 2005 Setup	
Installing Prerequisites Installs software components required prior to installing SQL Server.	
SQL Server Component Update will install the following components required for SQL Server Setup: Microsoft SQL Native Client Microsoft SQL Server 2005 Setup Support Files	
Click Install to continue.	
	incel

Figure 2.3a



Figure 2.3b

4. click **Next** to continue in the welcome windows (see Figure 2.4)



Figure 2.4

5. Click Next to continue after the System Configuration Check is done (see Figure 2.5)



Figure 2.5

6. Click **Next** to continue until all preparation is done (see Figure 2.6)

🛃 Microsoft	SQL Server 2005 Expre	ss Edition Setup		
Microsoft Setup is j	SQL Server Installati preparing to continue with th	on le installation.		
٢	Please wait while setup pre	pares to continue w	ith the installation.	
	Status: Setting Int	ernal Properties		
Help		< <u>B</u> ack	<u>N</u> ext >	Cancel

Figure 2.6

7. Click **Next** to continue after input your name and company (see Figure 2.7)

🖟 Microsoft SQL Server 2005 Express Edition Setup	
Registration Information The following information will personalize your installation.	
The Name field must be filled in prior to proceeding. The Company field is	optional.
N <u>a</u> me: Carmen	
Company:	
✓ Hide advanced configuration options	
Help < Back Next >	Cancel

Figure 2.7

8. In the **Feature Selection**, it is recommended to install all on local hard drive except the software Development kit. Use the default installation path.

🙀 Microsoft SQL Server 2005 Express Edition Setup			
Feature Selection Select the program features you want installed.			
Click an icon in the following list to change how a feature is installed.			
Database Services Client Components Connectivity Components Software Development Kit	nent		
Will be installed on local hard drive	Will be installed on local hard drive		
Entire feature will be installed on local hard drive			
Entire feature will be unavailable Po your eatures quire 49 MB on your hard drive.			
Installation path d:\Program Files\Microsoft SQL Server\ Disk Cost			
Help < Back Next > Cano	tel		

Figure 2.8

9. Select the Windows Authentication Mode, click Next to continue (see Figure 2.9)

🔀 Microsoft SQL Server 2005 Express Edition Setup	
Authentication Mode The authentication mode specifies the security used when connecting to SQL Server.	
Select the authentication mode to use for this installation.	
Windows Authentication Mode Mixed Mode (Windows Authentication and SQL Server Authentication)	
Specify the sa logon password below: Enter password: Confirm password:	
Help < Back Next > C	ancel



10. Use the default settings in Configuration Options, click **Next** to continue (see Figure 2.10)

🙀 Microsoft SQL Server 2005 Express Edition Setup	×
Configuration Options Configure user and administrator accounts	
✓ Enable User Instances This option enables users without administrator permissions to run a separate instance of the SQL Server Express Database Engine.	
Add user to the SQL Server Administrator role This option adds the user who is running the SQL Server Express installation program to the SQL Server System Administrator role. By default, users on Microsoft Windows Vista operating system are not members of the SQL Server System Administrator role.	
Help < Back Next > Cancel	

Figure 2.10

 No selections (by default) in Error and Usage Report Settings, click Next to continue (see Figure 2.11)

😸 Microsoft SQL Server 2005 Express Edition Setup	×
Error and Usage Report Settings Help Microsoft improve some of the SQL Server 2005 components and services.	
Automatically send Error reports for SQL Server 2005 to Microsoft or your corporate error reporting server. Error reports include information regarding the condition of SQL Server 2005 when an error occurred, your hardware configuration and other data. Error reports may unintentionally include personal information, which will not be used by Microsoft.	
Automatically send Feature Usage data for SQL Server 2005 to Microsoft. Usage data includes anonymous information about your hardware configuration and how you use our software and services.	
By installing Microsoft SQL Server 2005, SQL Server and its components will be configured to automatically send fatal service error reports to Microsoft or a Corporate Error Reporting Server. Microsoft uses error reports to improve SQL Server functionality, and treats all information as confidential.	
Help < Back)

Figure 2.11

12. Click **Next** to continue in **Ready to Install** (see Figure 2.12)

😽 Microsoft SQL Server 2005 Express Edition Setup	×
Ready to Install Setup is ready to begin installation.	
Setup has enough information to start copying the program files. To proceed, click Insta change any of your installation settings, click Back. To exit setup, click Cancel.	ill. To
 File following components will be installed: SQL Server Database Services (Database Services, Replication) Client Components (Connectivity Components) 	
Help < Back Install Cancel	

Figure 2.12

13. After all selected components are installed, click **Next** to continue (see Figure 2.13)

💹 Microsoft SQL Server 2005 Setup	×
Setup Progress The selected components are being config	ured
Product	Status Setup finished
SQL Setup Support Files SQL Native Client SQL VSS Writer	Setup finished Setup finished Setup finished
SQL Server Database Services Workstation Components, Books Onlin	Setup finished Setup finished
,	
	<< Back Next >> Cancel

Figure 2.13

14. Click **Finish** to complete the installation (see Figure 2.14)

🐱 Microsoft SQL Server 2005 Setup	×
Completing Microsoft SQL Server 2005 Setup Setup has finished configuration of Microsoft SQL Server 2005	
Refer to the setup error logs for information describing any failure(s) that occu setup. Click Finish to exit the installation wizard. <u>Summary Log</u>	irred during
To minimize the server surface area of SQL Server 2005, some features and se disabled by default for new installations. To configure the surface area of SQL	ervices are Server, use the
Surface Area Configuration tool.	
 Configuring and Managing SQL Server Express For improved manageability and security, SQL Server 2005 provides more control over the SQL Server surface area on your system. To minimize the surface area, the following default configurations have been applied to your instance of SQL server: 	
o TCP/IP connections are disabled	~
	Einish

Figure 2.1

Section 3 Setup SQL Server 2005 Express Edition with Advanced Services SP2

1. Double click the SQLEXPR_ADV.EXE file to start the installation (see Figure 3.1)



Figure 3.1

2. Tick the checkbox to accept the End User License Agreement (see Figure 3.2)

🐱 Microsoft SQL Server 2005 Setap	×
End User License Agreement	
MICROSOFT SOFTWARE LICENSE TERMS	^
MICROSOFT SQL SERVER 2005 EXPRESS EDITION WITH ADVANCED SERVICES SERVICE PACK 2	Ξ
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft	
* updates,	
* supplements,	
* Internet-based services, and	
* support services	
for this software, unless other terms accompany those items. If so, those terms apply.	~
I accept the licensing terms and conditions	
Print Cance	el

Figure 3.2

3. Click Next to continue after all prerequisites are installed (see Figure 3.3)



Figure 3.3

4. Click **Next** to continue from the welcome windows (see Figure 3.4)



5. Click **Next** to continue after the system configuration check is done (see Figure 3.5)

ß	🛱 Microsoft SQL Server 2005 Setup				
S	System Configuration Check Wait while the system is checked for potential installation problems.				
	 	Success	15 Total 13 Success	0 Error 2 Warning	_
Ī	<u>D</u> eta:	ils:			
- [Action	Status	Message	^
ľ	0	WMI Service Requirement	Success		
	0	MSXML Requirement	Success		
	0	Operating System Minimum Level Req	Success		
	0	Operating System Service Pack Level R	Success		
	0	SQL Server Edition Operating System	Success		
	Δ	Minimum Hardware Requirement	Warning	Messages	
	0	IIS Feature Requirement	Success		_
	0	Pending Reboot Requirement	Success		
	0	Performance Monitor Counter Require	Success		
	0	Default Installation Path Permission Re	Success		~
		Filter 💌	Stop	<u>R</u> eport	•
		Help		<u>N</u> ext >	

Figure 3.5

6. Click **Next** after input the Name and Company (see Figure 3.6)

🔂 Microsoft SQL Server 2005 Setup	×
Registration Information The following information will personalize your installation.	
The Name field must be filled in prior to proceeding. The Company field is optional.	
Name:	
Carmen	
Company:	
Teclink	
✓ Hige advanced configuration options	
Help < Back Next > Cancel	

Figure 3.6

7. In the **Feature Selection**, all components are recommended to install on local hard drive. Use the **default** installation path (see Figure 3.7)

🕞 Microsoft SQL Server 2005 Setup	X		
Feature Selection Select the program features you want installed.			
Click an icon in the following list to change how a featur Database Services Reporting Services Click Components Connectivity Components Software Development Kit Management Studio Express	re is installed. Feature description Installs command line tools, connectivity components, programming models, management tools and development tools.		
😑 Will be installed on local hard d	rive _{jour}		
Entire feature will be installed o	n local hard drive re 37		
× Entire feature will be unavailable			
d:\Program Files\Microsoft SQL Server\	Browse Disk Cost		
Help <u>Sack</u>	Next > Cancel		

Figure 3.7

8. Select **Default instance** from the Instance Name windows (see Figure 3.8)

🔂 Microsoft SQL Server 2005 Setup 🛛 🔀
Instance Name You can install a default instance or you can specify a named instance.
Provide a name for the instance. For a default installation, click Default instance and click Next. To upgrade an existing default instance, click Default instance. To upgrade an existing named instance select Named instance and specify the instance name.
To view a list of existing instances and components click on Installed instances. Installed instances Help < Back

Figure 3.8

Tick the checkbox in the Existing components windows to allow upgrade the workstation components and development tools (see Figure 3.9)
 Click Next to continue

🙀 Microsoft SQL Server 2005 Setup	×
Existing components Components have been found on the machine. Select upgrade options below.	
The following components that you chose to install are already installed on the machine. The view a report of available options and alternatives click on Details.	o
✓ Workstation components and development tools 9.2.3042.00	
	_
Details	
Help < Back Next > Cancel	



10. Select **Windows Authentication Mode** from the **Authentication Mode** windows, click **Next** to continue (see Figure 3.10)

🙀 Microsoft SQL Server 2005 Setup	X
Authentication Mode The authentication mode specifies the security used when connecting to SQL Server.	
Select the authentication mode to use for this installation.	
Windows Authentication Mode Mixed Mode (Windows Authentication and SQL Server Authentication)	
Specify the sa logon password below: Enter password: Confirm password:	
Help < Back Next > C	Iancel



11. Click **Next** to continue in the **Configuration Options**. By default, the Enable User Instances is selected (see Figure 3.11)

🖟 Microsoft SQL Server 2005 Setup 🛛 🔀
Configuration Options Configure user and administrator accounts
✓ Enable User Instances This option enables users without administrator permissions to run a separate instance of the SQL Server Express Database Engine.
Add user to the SQL Server Administrator role This option adds the user who is running the SQL Server Express installation program to the SQL Server System Administrator role. By default, users on Microsoft Windows Vista operating system are not members of the SQL Server System Administrator role.
Help < Back

Figure 3.11

12. Click **Next** to continue in the **Report Server Installation Options**. By default, the **Install the default configuration** is selected (see Figure 3.12a)



Figure 3.12a

Figure 3.12b

13. Click Next to continue in the Error and Usage Report Settings. By default, no options are selected (see Figure 3.13)

🖟 Microsoft SQL Server 2005 Setup	×
Error and Usage Report Settings Help Microsoft improve some of the SQL Server 2005 components and services.	
Automatically send Error reports for SQL Server 2005 to Microsoft or your corporate error reporting server. Error reports include information regarding the condition of SQL Server 2005 when an error occurred, your hardware configuration and other data. Error reports may unintentionally include personal information, which will not be used by Microsoft.	
Automatically send Eeature Usage data for SQL Server 2005 to Microsoft. Usage data includes anonymous information about your hardware configuration and how you use our software and services.	
By installing Microsoft SQL Server 2005, SQL Server and its components will be configured to automatically send fatal service error reports to Microsoft or a Corporate Error Reporting Server. Microsoft uses error reports to improve SQL Server functionality, and treats all information as confidential.	
Help < Back Next > Cancel)

Figure 3.13

14. Click **Install** to continue in the **Ready to Install** (see Figure 3.14)



Figure 3.14

15. After all components are installed, click Next to continue

🐱 Microsoft SQL Server 2005 Setup		
Setup Progress The selected components are being config	ured	
Product	Status	~
MSXML6	Setup finished	
SQL Setup Support Files	Setup finished	
SQL Native Client	Setup finished	
SQL VSS Writer	Setup finished	
SQL Server Database Services	Setup finished	
<u>OWC11</u>	Setup finished	
SQL Server Backward-Compatibility Files	Setup finished	
Reporting Services	Setup finished	~
Help	<< Back	ncel

16. Click **Finish** to complete the installation (see Figure 3.16)

🐱 Microsoft SQL Server 2005 Setup	
Completing Microsoft SQL Server 2005 Setup Setup has finished configuration of Microsoft SQL Server 2005	
Refer to the setup error logs for information describing any failure(s) that occurred durin setup. Click Finish to exit the installation wizard. Summary Log	Ig
To minimize the server surface area of SQL Server 2005, some features and services are disabled by default for new installations. To configure the surface area of SQL Server, u	e se the
Surface Area Configuration tool.	
Configuring and Managing SQL Server Express	
 For improved manageability and security, SQL Server 2005 provides more control over the SQL Server surface area on your system. To minimize the surface area, the following default configurations have been applied to your instance of SQL server: 	
o TCP/IP connections are disabled	~
<u>H</u> elp <u>E</u> ini	sh



Section 4 SQL Server Configuration

1. Open the SQL Server Configuration Manager from Start→All Programs→Microsoft SQL Server 2005→Configuration Tools→SQL Server Configuration Manager (see Figure 4.1)

📓 SQL Server Configuration Manager						
File Action View Help						
	٢					
SQL Server Configuration Manager (Local) SQL Server 2005 Services Image: SQL Server 2005 Network Configuration Image: SQL Native Client Configuration	Name	State	Start Mode	Log On As	Process ID	Service Type
	SQL Server FullText Search (MSSQLSERVER)	Running	Automatic	LocalSystem	1548	Full Text
	SQL Server (MSSQLSERVER)	Running	Automatic	LocalSystem	1584	SQL Server
	SQL Server Browser	Stopped	Other (Boot,	LocalSystem	0	SQL Browser
	SQL Server Agent (MSSQLSERVER)	Running	Automatic	LocalSystem	520	SQL Agent



2. In the **SQL Server Configuration**, click the **SQL Server 2005 Services**. Then you can see the server status from the right hand side.

If the SQL Server is running, stop it first. Double click the **SQL Server (SQLEXPRESS)**, the properties window will pop up (see Figure 4.2)

The default setting in the **Built-in account** is Network Service, change to **Local System**, and click **OK** to confirm

SQL Server (MSSQLSERVER) 內容
Log On Service Advanced
Log on as:
Built-in account:
Local System
C This account:
Account Name: Browse
Password: ***********
· · _
Service status: Running
Start Stop Pause Restart
確定 取消 套用(A) 説明

Figure 4.2

3. For the **SQL Server Browser**, also set the **Log on as Local System** (see Figure 4.3)

2	QL Serv	er Brow	ser 內容			? 🗙
1	Log On	Service	Advanced			
	Log on	as:				
	🖲 <u>B</u> uil	t-in accour	nt:			
	Nel	twork Serv	rice		-	
	C Loc Net	al System al Service work Serv	ice			
	Aco	ount <u>N</u> ame	::			Br <u>o</u> wse
	P <u>a</u> s:	sword:		000000000000000000000000000000000000000	**	
	<u>C</u> on	firm passv	vord:	000000000000000000000000000000000000000	**	
	Service	status:		Stopped		
	<u></u>	art	Stop	Paus	ie	<u>R</u> estart
		<u>確</u>	定 (取消	套用(<u>A</u>)	說明



 Expend the SQL Server 205 Network Configuration and then click the Protocols for MSSQLSERVER from the left hand side (see Figure 4.4).

By default, only Shared Memory is enabled

Double click Named Pipes and TCP/IP to make the status Enabled

🛐 SQL Server Configuration Manager		
File Action View Help		
😵 SQL Server Configuration Manager (Local)	Protocol Name	Status
SQL Server 2005 Services	🕉 Shared Memory	Enabled
🚊 🖳 🖳 SQL Server 2005 Network Configuration	To Named Pipes	Enabled
Protocols for MSSQLSERVER	TCP/IP	Enabled
🖻 🚆 SQL Native Client Configuration	VIA	Disabled
Scient Protocols	*	

Figure 4.4

5. Expend the **SQL Native Client Configuration** and then click the **Client Protocols** from the left hand side (see Figure 4.5).

By default, only Shared Memory is enabled

Double click Named Pipes and TCP/IP to make the status Enabled

😽 SQL Server Configuration Manager					
檔案④ 執行(丛) 檢視(♡) 說明(出)					
← → 🖻 🗗 🗗 😼					
SQL Server Configuration Manager (Local) SQL Server 2005 Services SQL Server 2005 Network Configuration Protocols for SQLEXPRESS SQL Native Client Configuration Client Protocols Aliases	Name	Order	Enabled		
	🍞 Shared Memory	1	Enabled		
	🍞 ТСР/ІР	2	Enabled		
	🍞 Named Pipes	3	Enabled		
	AIV C		Disabled		
, ,					

Figure 4.5

6. All database setup and configurations are done, please refer to IP-guard User guide to continue the IP-guard installation