Detailed Instructions for Billing Master Installation

1) Billing Master Install: (approximately 10 minutes to install)

• Standalone Installation notes:

If you are installing the program on a single workstation then you simply install the application locally by double-clicking the BillingMasterSetup.exe program file. After installation you proceed to step 2 for SQL Server installation and configuration.

• Networked Installation notes:

For networked installations you need to plan for the install location. You need to select or create a common directory share on your server. For best results this should be under a mapped network drive letter. For example if you already have drive F: mapped to your NTFS file share, then create a directory under F: and name it BillingMaster.

After creating this share then install the application by double-clicking the BillingMasterSetup.exe program file. When the setup screen comes up showing where it will install change the default path to F:\BillingMaster, or the shared drive location you established.

When the installation completes, go to the next workstation and repeat the install process. Repeat this for all workstations which will be running Billing Master. Remember the free version of Billing Master gives you only two workstation licenses. Additional workstation licenses may be purchased, if needed.

After you have installed the program on all workstations you proceed to step 2 for SQL Server installation and configuration.

2) SQL Server Install: (approximately 20 minutes to install)

If you have Microsoft® SQL Server already installed then you can proceed to step 3), the Database Setup, otherwise you need to run the SQL Server setup and the Management Studio Setup. These setup programs can be selected and run by clicking the Start button and selecting All Programs. Under All Programs will be the new menu item Masterware. Under the Masterware menu item will be the

From your Start Button do the following:

- ✓ Select All Programs
- ✓ Select Billing Master
- ✓ Select SQL Server Setup
- ✓ Select Install SQL Server

This will begin the installation of SQL Server. The following screens will aid you in making your selections during the installation process:

Microsoft SQL Server 2005 Setup
End User License Agreement
MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2005 EXPRESS EDITION SERVICE PACK 3 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 *
Print Next > Cancel

k	Microsoft SQL Server 2005 Setup	x
	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:	Â
	Microsoft SQL Native Client Microsoft SQL Server 2005 Setup Support Files	
	Click Install to continue.	
		-
	[InstallCancel	

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 	
The required components were installed successfully.	
	T
	el



Important Note: After you click the Next button on the above screen make sure you are doing an install but not a modify or remove. If the installation steps after this indicate it will be doing a modify or removal, contact us for assistance, as you do not want to change your existing installation.

System Configuration Check Wait while the system is checked for potential installation problems.			
0	Success	13 Total 13 Success	0 Error 0 Warning
<u>D</u> etai	ils:		
	Action	Status	Message 🔺
0	Minimum Hardware Requirement	Success	
0	Pending Reboot Requirement	Success	
0	Default Installation Path Permission Re	Success	
0	Internet Explorer Requirement	Success	
9	COM Plus Catalog Requirement	Success	-
2	ASP.Net Version Registration Require	Success	=
	Minimum MDAC Version Requirement	Success	
–	Edition Change Check	Success	-
	Fil <u>t</u> er ▼ Help	Stop	<u>R</u> eport ▼
Mic	rosoft SOL Senver 2005 Evoress Editio	n Setun	Next >
J Mic Regi	rosoft SQL Server 2005 Express Editio istration Information ne following information will personalize yo	n Setup ur installation.	<u>N</u> ext >
J Mic Regi Tł Tł	rosoft SQL Server 2005 Express Edition istration Information ne following information will personalize you ne Name field must be filled in prior to proc ame:	n Setup ur installation. ceeding. The Compar	Next >

You must provide your name above, but your Company is optional.

🔛 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 featur	e is installed.
Database Services Client Components X Connectivity Components Software Development Kit	Feature description Installs the SQL Server Database Engine, tools for managing relational and XML data, and replication.
	This feature requires 117 MB on your hard drive. It has 2 of 3 subfeatures selected. The subfeatures require 100 MB on your hard drive.
Installation path	
	Disk Cost
Help < <u>B</u> ack	Next > Cancel

過 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.	
Mindows Authentication Mode Mixed Mode (Windows Authentication and SQL Server Authentication)	
Specify the sa logon password below:	
Confirm gassword;	
Help < <u>B</u> ack Next > Ca	ncel

Windows Authentication Mode is fine for local PC installs. If you select the Mixed Mode option, make sure to store your sa password somewhere safe, so you can retrieve it when needed. Make sure to select a strong password (upper and lower case alphabetic, numbers and characters)



Be sure to click the lower check box as well as the upper checkbox

📸 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 Next > Cancel

You will not need any of the above, so leave them unchecked

Hicrosoft 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 Install. To change any of your installation settings, click Back. To exit setup, click Cancel.	
The following components will be installed:	
Help < <u>B</u> ack Install Cancel	

🔝 Microsoft SQL Server 2005 Setup	
Setup Progress The selected components are being co	nfigured
Product SQL Setup Support Files SQL Native Client SQL VSS Writer SQL Server Database Services	Status Setup finished Setup finished Setup finished
Help	<< <u>B</u> ack Next>> Cancel



You will see the above screen when the installation completes successfully. Click the finish button.

You are now ready to install the Management Studio. From your Start Button do the following:

- ✓ Select All Programs
 ✓ Select Billing Master
 ✓ Select SQL Server Setup
- ✓ Select Install Management Studio

This will begin the installation of SQL Server Management Studio. The following screens will aid you in making your selections during the installation process:

😸 Microsoft SQL Server Management Studio Express Setup	
•	Welcome to the Install Wizard for Microsoft SQL Server Management Studio Express
	Setup helps you install, modify or remove Microsoft SQL Server Management Studio Express. To continue, dick Next.
	WARNING: This program is protected by copyright law and international treaties.
[< Back Next > Cancel

Microsoft SQL Server Management Studio Express Setup	×
License Agreement	
	14
MICROSOFT SOFTWARE LICENSE TERMS	Â
MICROSOFT SQL SERVER 2005 MANAGEMENT STUDIO EXPRESS	
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	
which you received it, if any. The terms also apply to	
any Microsoft	-
I accept the terms in the license agreement	
\bigcirc I <u>d</u> o not accept the terms in the license agreement	
< Back Next > Cancel	_

Hicrosoft SQL Server Management Studio Express Setup
Registration Information The following information will personalize your installation.
Enter your name and the name of your organization in the fields below.
Name: I Company:
< Back Next > Cancel

Enter you Name above but the Company is optional

Hicrosoft SQL Server Management Studio Express Setu	ap qu
Feature Selection Select the program features you want installed.	
Click an icon in the following list to change how a feature is	installed.
Management Studio Express	Feature description Installs interactive management tools for running SQL Server, including SQL Server Management Studio Express.
Installation path	
C:\Program Files\Microsoft SQL Server\	
	Disk Cost
< <u>B</u> ack Ne	ext > Cancel



🛃 Microso	ft SQL Server Management Studio Express Setup	×
Installin The pro	g Microsoft SQL Server Management Studio Express gram features you selected are being installed.	
	Please wait while the Install Wizard installs Microsoft SQL Server Management Studio Express. This may take several minutes. Status:	
	< <u>B</u> ack <u>N</u> ext > Car	icel



SQL Server is now installed, along with the Management Studio. You may click the Finish button and then proceed on to step 3.

3) Create and Configure the Billing Master database: (approximately 10 minutes to complete)

From your Start Button do the following:

- ✓ Select All Programs
- ✓ Select Microsoft SQL Server 2005
- ✓ Select SQL Server Management Studio

After the program first time configures you will see the following screen:

🚽 Connect to Server		X
SQL Serve	Windows Server Sys	tem
Server type:	Database Engine	~
<u>S</u> erver name:	DEEPNET\SQLEXPRESS	~
<u>A</u> uthentication:	Windows Authentication	~
<u>U</u> ser name:	TOSHIBA\Dave	~
<u>P</u> assword:		
	Remember password	
Connect	Cancel Help Options >>	>

The Server Name will be the name of your server (or workstation). If you have downloaded the free version of SQL Server it followed by "\SQLExpress", as shown above.

Click the Connect button

Go to the Databases in the list:

🧏 Microsoft SQL Server Management Studio	
<u>Eile Edit View Iools Window Community H</u> elp	
😥 New Query 📭 🕞 🚰 🗐 🤐 🥫	
Object Explorer 🚽 🗸	
Connect • 🛃 🛃 = 🍸 🛃 😹	
MC101709\SQLEXPRESS (SQL Server 10.0.1600 - Detabases	
R Dystem Databases	
🗄 🧰 Security	
■ Burker Cojects	
🗃 🚞 Management	
Ready	

Right click on the Databases and select New Database:

🖥 New Database								
Select a page Page General	<u>S</u> Script 🝷 🛐	🔄 Script 🝷 🚺 Help						
In the second se	Database name: BillingMaster							
	<u>0</u> wner:		<default></default>					
	✓ Use full-text in	idexing						
	Database files:							
	Logical Name	File Type	Filegroup	Initial Size (MB)	Autogrowth			
	BillingMaster	Rows	PRIMARY	2	By 1 MB, unrestricted growth			
	BillingMaster	Log	Not Applicable	1	By 10 percent, unrestricted growth			
Connection								
Server: MC101709\SQLEXPRESS								
Connection: MC101709\Dave								
View connection properties								
Progress								
Ready	<				>			
Page P				Add	<u>R</u> emove			
					OK Cancel			

Enter the name of the database as BillingMaster. Then click the Ok button.

Now click the newly created database, so it is in blue:



Select the menu item File, Open, File. Then go to the directory where you installed the Billing Master program. Select the "SQLSetup" directory, under this directory.

Open File						? 🗙
Look in:	🛅 SQLSetup		<mark>></mark> 🕲 -	🔰 🔍 🗡	🤇 📑 🎹 🕶 To	ools -
Desktop	BillingMaster					
My Projects						
My Computer						
	File name:					
					×	Open *
	Files of <u>type</u> :	All Files			*	Cancel

Select the BillingMaster file under this directory.

And click the Open button:

The contents of the file will now be displayed. <u>Do not</u> alter its contents.



Locate the red colored "! Execute" icon near the top of the screen. Make sure that BillingMaster is displayed in the drop-down box, located to the left of the icon.

After confirming this click the "! Execute" icon.

You will see that the command completed successfully after a relatively short period of time:



The database is now ready for the SQL sa user and anyone who is an administrator on this server/workstation. For setting up other users for access to the database refer to the Microsoft® help on SQL Server.

Proceed to step 4

4) Billing Master Program Licensing: (licensing the first two workstations is provided free of charge)

Contact us at 913-681-0801 and we will license your PC to use the program.

After we license you we will assist you with connecting to your SQL Server and confirm you can login to the program. This service is provided free of charge. If SQL Server is not configured correctly any assistance with this is chargeable. We will be able to inform you of this when we get your license setup.

SQL Server Networking Considerations

With SQL Server Express in a non-networked environment (single PC with SQL Server on the same workstation as Billing Master) connectivity is quite simple and is the default installation.

For networked use, SQL Server must be configured to allow other workstations to connect to it. The following guide will assist you in configuring SQL Server for networked use.

Go to the Computer Icon under the Start menu and right-click and select Manage.

😑 Computer Management									
📕 Eile Action View Window E	<u>i</u> elp								
Computer Management (Local)									
System Tools	No Services								
😧 💼 Event Viewer									
🕀 🛺 Shared Folders	SQL Server Browser	Name A	Description	Status	Startup Type	Log On / 🛆			
🕀 🚮 Local Users and Groups	Chan the enviro	Number Service Media Serial Number Service	Retrieves t		Manual	Local Sys			
🗉 🌌 Performance Logs and Alert:	Pause the service	Print Spooler	Loads files	Started	Automatic	Local Sys			
🔄 🔜 Device Manager	Restart the service	Service Storage	Provides pr	Started	Automatic	Local Sys			
😑 🎦 Storage		Sector Contraction	Provides n		Manual	Local Sys			
🕀 😭 Removable Storage	Description:	Remote Access Auto Connection Manager	Creates a		Manual	Local Sys			
Disk Detragmenter	Provides SQL Server connection	Remote Access Connection Manager	Creates a	Started	Manual	Local Sys			
Disk Management	information to client computers.	🎇 Remote Desktop Help Session Manager	Manages a		Manual	Local Sys			
Services and Applications		Remote Procedure Call (RPC)	Provides th	Started	Automatic	Network			
WMI Control		Remote Procedure Call (RPC) Locator	Manages t		Manual	Network			
SOL Server Configuration M		Remote Registry	Enables re	Started	Automatic	Local Ser			
Social Service		Removable Storage			Manual	Local Sys			
		Routing and Remote Access	Offers rout		Disabled	Local Sys			
		Secondary Logon	Enables st	Started	Automatic	Local Sys			
		Security Accounts Manager	Stores sec	Started	Automatic	Local Sys			
		Security Center	Monitors s	Started	Automatic	Local Sys			
		Server .	Supports fil	Started	Automatic	Local Sys			
		Shell Hardware Detection	Provides n	Started	Automatic	Local Sys			
		Smart Card	Manages a		Manual	Local Ser			
		SQL Active Directory Helper Service	Enables int		Disabled	NT AUTH 📃			
		SQL Server (SQLEXPRESS)	Provides st	Started	Automatic	NT AUTH			
		SQL Server Agent (SQLEXPRESS)	Executes j		Disabled	NT AUTH			
		SQL Server Browser	Provides S	Started	Automatic	NT AUTH			
		SQL Server VSS Writer	Provides th	Started	Automatic	Local Sys			
		SSDP Discovery Service	Enables dis	Started	Manual	Local Ser			
		Symantec Endpoint Protection	Provides vi	Started	Automatic	Local Sys			
		Symantec Event Manager	Event prop	Started	Automatic	Local Sys			
		Symantec Management Client	Provides c	Started	Automatic	Local Sys			
		Symantec Network Access Control	Checks tha		Manual	Local Sys			
		🆏 Symantec Settings Manager	Settings st	Started	Automatic	Local Sys			
		System Event Notification	Tracks syst	Started	Automatic	Local Sys			
		System Restore Service	Performs s	Started	Automatic	Local Sys			
		🖏 Task Scheduler	Enables a	Started	Automatic	Local Svs 🐸			
	\ Extended / Standard /								

Then select Services and set SQL Server Browser to Automatic (double-click to open the window shown below). After this you can start the service

SQL Server Brow	rser Properties (Local Computer) 🛛 🔹 🔀
General Log On	Recovery Dependencies
Service name:	SQLBrowser
Display <u>n</u> ame:	SQL Server Browser
Description:	Provides SQL Server connection information to
Pat <u>h</u> to executabl	le:
"c:\Program Files	\Microsoft SQL Server\90\Shared\sqlbrowser.exe''
Startup typ <u>e</u> :	Automatic
Service status:	Started
<u>S</u> tart	Stop Pause Resume
You can specify t from here.	he start parameters that apply when you start the service
Start para <u>m</u> eters:	
	OK Cancel Apply

Named Pipes vs. TCP/IP (Quoted from Microsoft):

In a fast local area network (LAN) environment, Transmission Control Protocol/Internet Protocol (TCP/IP) Sockets and Named Pipes clients are comparable with regard to performance. However, the performance difference between the TCP/IP Sockets and Named Pipes clients becomes apparent with slower networks, such as across wide area networks (WANs) or dial-up networks. This is because of the different ways the interprocess communication (IPC) mechanisms communicate between peers.

For named pipes, network communications are typically more interactive. A peer does not send data until another peer asks for it using a read command. A network read typically involves a series of peek named pipes messages before it starts to read the data. These can be very costly in a slow network and cause excessive network traffic, which in turn affects other network clients.

It is also important to clarify if you are talking about local pipes or network pipes. If the server application is running locally on the computer that is running an instance of SQL Server, the local Named Pipes protocol is an option. Local named pipes runs in kernel mode and is very fast.

For TCP/IP Sockets, data transmissions are more streamlined and have less overhead. Data transmissions can also take advantage of TCP/IP Sockets performance enhancement mechanisms such as windowing, delayed acknowledgements, and so on. This can be very helpful in a slow network. Depending on the type of applications, such performance differences can be significant.

TCP/IP Sockets also support a backlog queue. This can provide a limited smoothing effect compared to named pipes that could lead to pipe-busy errors when you are trying to connect to SQL Server.

Generally, TCP/IP is preferred in a slow LAN, WAN, or dial-up network, whereas named pipes can be a better choice when network speed is not the issue, as it offers more functionality, ease of use, and configuration options.

Open SQL Server Configuration Manager

Make sure the two services shown are running

🚡 Sql Server Configuration Manager					×
File Action View Help					
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Services Protocols for SQLEXRESS SQL Native Client 10.0 Configuration Aliases Aliases	Name	State Running Running Stopped	Start Mode Automatic Automatic Other (Boot, System, Disabled or Unknown)	Log On As NT AUTHORITYLOCAL SERVICE NT AUTHORITYLNETWORK SE NT AUTHORITYLNETWORK SE	P1 14 12 0

We recommend enabling both "Named Pipes" and "TCP/IP" per the two sections shown: (note making changes may require you to stop and start the running services)

🚡 Sql Server Configuration Manager				- 7 🛛
Eile Action View Help				
SQL Server Configuration Manager (Local) SQL Server Services SQL Server Network Configuration SQL Server Interview Configuration SQL Native Client 10.0 Configuration Client Protocols Aliases	Protocol Name Shared Memory Named Pipes TCP/IP VIA	Status Enabled Enabled Disabled		

🚡 Sql Server Configuration Manager					_ 7×
Eile <u>A</u> ction ⊻iew <u>H</u> elp					
SQL Server Configuration Manager (Local)	Name	Order	Enabled		
SQL Server Network Configuration	Shared Memory	1	Enabled Enabled		
Protocols for SQLEXPRESS	Warned Pipes	2	Enabled		
United Section 10.0 Configuration 응 Client Protocols 이 유명 Aliases	3 VIA		Disabled		