

INSTALLATION MANUAL

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TMS/LC C	Communicator								-		
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TMS/LC Communicator

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TEL: (631) 293-8450 FAX: (631) 293-8533 http://www.pneumercator.com

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Note: A separ	rate OPERATING MANUAL is available, but NOT required for TMSComm installation.
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OVERVIEW

SYSTEM REQUIREMENTS

SOFTWARE:

All versions of Windows listed below are supported in both 32-bit and 64-bit configurations. Follow the instructions listed in the referenced Section to install a version of SQL Server Express that is compatible with the version of Windows being used. SQL Server Express provides the data storage for TMSComm including the connection settings for Sites, Log/Report data, and select Autopolling results.

Windows 2000, Windows XP: Proceed to Section 1 to begin Installation

Windows Vista, Windows 7:

May proceed to Section 1 or 2 to begin Installation. Section 2 recommended if planning on upgrading to Windows 8 or higher in the future.

Windows 8, Windows 8.1, Windows 10 (All versions): Proceed to Section 2 to begin Installation

Note: If an existing installation of SQL Server is being used with TMSComm, double-click on the Pneumercator TMSComm.msi file on the CD and proceed to Section 3 for TMSComm installation.

Note: Select changes to the default Windows Security Policy are not compatible with SQL Windows Authentication Security. Choose Mixed Mode Security to avoid potential conflicts with Security Policies that deviate from the standard Security Policy.

HARDWARE:

500 MHz or Higher 512 MB RAM

SECURITY:

Read/Write access to the following:

- TMSCOMM.INI: located by default in the C:\TMSCOMM folder.
- SQL Server that is supporting TMSComm.

NOTE: The screenshots in this manual were created using TMS Communicator 02.16.21, SQL Server 2005 Express SP3, and SQL Server 2012 Express SP3. The actual screens presented on your computer may vary slightly. If there is any question regarding how to proceed with an installation, contact Pneumercator at (800) 209-7858 or (631) 293-8450.

SECTION 1 – SQL SERVER 2005 EXPRESS

Below is a walkthrough showing the process of installing SQL Server 2005 Express, included with TMSComm. SQL Server is required by TMSComm to provide storage for TMSComm and Autopolling data.

Note: Users of Windows 8 or higher must proceed to Section 2 to manually install SQL Server 2012 Express. SQL Server 2005 Express is NOT supported by Windows 8 and higher.

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)rganize 🔻 🛛 Include i	n library 🔻 Share with 👻 New fold	er			:== -		(
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_	al Autorun	10/30/2014 10:51	Setup Information	1 KB			
🗃 Libraries	🚽 dotnetfx20	7/11/2013 3:43 PM	Application	22,960 KB			
📑 Documents	🞒 instmsiw	11/28/2004 7:53 AM	Application	1,780 KB			
🚽 Music	🛃 isnetfx	6/10/2009 1:32 PM	Application	350 KB			
📔 Pictures	🔀 Pneumercator TMSComm	10/30/2014 10:51	Windows Installer	921 KB			
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	🗿 Setup	10/30/2014 10:51	Configuration sett	3 KB			
🖳 Computer							
🖀 Local Disk (C:)							
📮 Network							
10 items							
Double-o	click the Setup.ex	e applicatior	n to begin	the inst	allation proce	ess.	-

umerc	ator TMSComm - InstallShield Wizard neumercator TMSComm requires the following items to be installed on your computer. lick Install to begin installing these requirements.
Status	Requirement

-

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User	License Agreement
MICR	OSOFT SOFTWARE LICENSE TERMS
MICR PACK	OSOFT SQL SERVER 2005 EXPRESS EDITION SERVICE
Thes Micr live read abov rece Micr	e license terms are an agreement between osoft Corporation (or based on where you , one of its affiliates) and you. Please them. They apply to the software named e, which includes the media on which you ived it, if any. The terms also apply to any osoft
×	updates,
	supplements,
×	••
*	Internet-based services, and
* *	Internet-based services, and support services

Review the license agreement and check the box to accept the terms.

💹 Microsoft SQL Server 2005 Setup
End User License Agreement
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT SQL SERVER 2005 EXPRESS EDITION SERVICE PACK 3
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 -
I accept the licensing terms and conditions
Print Next > Cancel

Click Next to continue.

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

Click Install to continue.

I MILEFOSOFE SC	L Server 2005 Setup		
Installing Pr Installs so Server.	e requisites tware components required prior to ir	nstalling SQL	
SQL Ser required	ver Component Update will inst for SQL Server Setup:	all the following compone	nts 🔺
✓ Micro ✓ Micro	oft SQL Native Client oft SQL Server 2005 Setup Su	pport Files	
The req	uired components were installed	d successfully.	
			*

Note: If any of the items listed in the window above fail to show a green check mark, contact Pneumercator. It is important to note the first error message that occurs during the installation process to minimize the amount of time needed troubleshooting the problem.

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ys ∖ ₽	Vait while the system is checked for poten roblems.	tial installation		
0	Success	13 Total 12 Success	0 Error 1 Warning	
eta	ails:			
	Action	Status	Message	^
2	Minimum Hardware Requirement	Success		
0	Pending Reboot Requirement	Success		
0	Default Installation Path Permission Re	Success		
2	Internet Explorer Requirement	Success		
2	COM Plus Catalog Requirement	Success		
ŝ	ASP.Net Version Registration Require	Warning	Messages	Ξ
2	Minimum MDAC Version Requirement	Success		
0	Edition Change Check	Success		
	Fil <u>t</u> er ▼	<u>S</u> top	<u>R</u> eport	•

Click Next to continue.

Note: The Warning about the ASP.Net Version Registration Requirement is common and will not cause problems by continuing the installation. If any of the other items listed in the window above fail to show a green check mark, contact Pneumercator. It is important to note the first error message that occurs during the installation process to minimize the amount of time needed troubleshooting the problem.

👹 Microsoft SQL Server 20	05 Express Edition Setup	×
Registration Informa The following information	tion n will personalize your installation.	
The Name field must be	filled in prior to proceeding. The Company	field is optional.
N <u>a</u> me:		
Windows 7 64-bit		
C <u>o</u> mpany:		
📝 Hide advanced config	guration options	

Enter your Full Name and Company Name. Click Next to continue.

Note: Leave the checkbox to Hide advanced configuration options checked unless otherwise directed by Pneumercator or a SQL Server administrator.

	😸 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.
	Image: Database Services Image: Database	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 c:\Program Files (x86)\Microsoft SQL Server\	Browse Disk Cost
	Help < Back	Next > Cancel
	Click Next to co	ontinue
Note: Do ı a SQL Se	not make any changes unless oth rver administrator.	erwise directed by Pneumercator or
TMSComm Instal	lation Manual.docx	February 12, 2017

thentication The authenticatio connecting to SQ	Mode In mode specifies th L Server.	e security used wł	nen	
Select the auther	ntication mode to us	e for this installation	on.	
Windows Auth	nentication Mode			
🔘 Mixed Mode ('	Windows Authentica	ation and SQL Serv	ver Authentication))
Specify the sa loo	jon password below			
Enter passwo	rd:]	
Confirm <u>p</u> ass	word:			

Click Next to continue.

Note: Windows Authentication Mode is the default security setting for SQL. This integrates the SQL security layer into the Windows security layer. This is ideal for applications where the default Security Policy is in effect. Select Security Policy changes can cause compatibility issues with Windows Authentication Mode. In those applications, change the Authentication Mode to Mixed Mode to keep those security layers separate. See the following page for additional details on Mixed Mode Security.

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Micr	osoft SQL Server 2005 Express Edition Setup
Authe The cor	entication Mode e authentication mode specifies the security used when necting to SQL Server.
Sel	ect the authentication mode to use for this installation.
\odot	Windows Authentication Mode
۲	Mixed Mode (Windows Authentication and SQL Server Authentication)
Spe	cify the sa logon password below:
	Enter password:
	•••••
	Confirm password:
	•••••

Note: The above screen represents the change to Mixed Mode Authentication. If Windows Authentication has already been selected from the previous page, proceed to the next page.

Mixed Mode Authentication requires that a password be defined for the SQL System Administrator (sa). Enter the password above to be in compliance with the Security Policy in effect and click Next to continue.



	😸 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	
	Click Next to continue.	
Note: Cheo to be cheo affect TMS when mak	cking either box will send select data to Microsoft. These do in cked for TMSComm to operate correctly but will also not ne SComm by choosing to submit this data to Microsoft. Use d ting this decision.	not need egatively iscretion

Microsoft SQL Server 200	5 Express Edition Setup	
eady to Install Setup is ready to begin in	stallation.	
Setup has enough informat change any of your installa	tion to start copying the program files. To procee ation settings, click Back. To exit setup, click Can	ed, click Insta cel.
b 1 c 1 c		
The following comp	onents will be installed:	
SQL Server D (Database Services)	oonents will be installed: atabase Services	
GQL Server D. (Database Services)	oonents will be installed: atabase Services	
SQL Server D. (Database Services)	oonents will be installed: atabase Services	
SQL Server D. (Database Services)	oonents will be installed: atabase Services	

Click Install to continue.

-

The selected components are being cor	nfigured	
roduct	Status	
SQL Setup Support Files	Setup finished	
SQL Native Client	Setup finished	
SQL VSS Writer	Setup finished	-
SQL Server Database Services	Setup finished	-
		-
		-
		-
		2
		_

Click Next to continue.

Note: If any of the items listed in the window above fail to show a green check mark, contact Pneumercator. It is important to note the first error message that occurs during the installation process to minimize the amount of time needed troubleshooting the problem. The above list may not reflect all of the items installed on your particular computer. Additional items may be installed based on the scans that are performed on your computer as part of the installation process.

J N	Aicrosoft SQL Server 2005 Setup	- ×
Cor	mpleting Microsoft SQL Server 2005 Setup	
2	Setup has finished configuration of Microsoft SQL Server 2005	
Ref(setu	er to the setup error logs for information describing any failure(s) that occurred d up. Click Finish to exit the installation wizard.	luring
Sum	imary Log	
Ton	minimize the server surface area of SQL Server 2005, some features and services	are
disa	bled by default for new installations. To configure the surface area of SQL Serve	r, use the
disa	bled by default for new installations. To configure the surface area of SQL Serve	r, use the
disa <u>Surf</u>	bled by default for new installations. To configure the surface area of SQL Server	r, use the
disa <u>Surf</u> Co	bled by default for new installations. To configure the surface area of SQL Server	r, use the
disa Surf Co Ex	bled by default for new installations. To configure the surface area of SQL Server face Area Configuration tool. onfiguring and Managing SQL Server coress	r, use the
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disa Surf Co Ex	bled by default for new installations. To configure the surface area of SQL Server face Area Configuration tool. Infiguring and Managing SQL Server (press For improved manageability and security, SQL Server 2005 provides more control over the SQL	r, use the
disa Surf Co Ex	abled by default for new installations. To configure the surface area of SQL Server face Area Configuration tool. Infiguring and Managing SQL Server (press For improved manageability and security, SQL Server 2005 provides more control over the SQL Server surface area on your system. To minimize	r, use the
disa Surf Co Ex	Abled by default for new installations. To configure the surface area of SQL Server face Area Configuration tool. Configuring and Managing SQL Server cpress 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	r, use the
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disa Surf Co Ex	Abled by default for new installations. To configure the surface area of SQL Server face Area Configuration tool. Configuring and Managing SQL Server cpress 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:	r, use the
disa Surf Co Ex •	Additional default for new installations. To configure the surface area of SQL Server face Area Configuration tool. Configuring and Managing SQL Server cpress 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	r, use the
disa Surf Co Ex	Additional display the surface area of SQL Server face Area Configuration tool. Configuring and Managing SQL Server cpress 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 Ammed Pines is disabled	r, use the

Click Finish to complete the installation. Proceed to Section 3 to continue with the installation of TMSComm.

SECTION 2 – SQL SERVER 2012 EXPRESS

Below is a walkthrough showing the process of installing SQL Server 2012 Express. This must be installed prior to installing TMSComm when running Windows 8 and higher. SQL Server is required by TMSComm to provide storage for TMSComm and Autopolling data.

Note: Users of Windows 2000 through Windows XP must proceed to Section 1 to install SQL Server 2005 Express provided with TMSComm. SQL Server 2012 Express is NOT supported by Windows 2000 through Windows XP.

💭 🗢 📕 🕨 SQL Sen	ver 2012 Express SP3			- - i i j	Search SQL Server 2012 Express SP3
Organize 🔻 🛛 Include i	in library 🔻 Share with 👻 New f	older			III 🔻 🔟 🔞
🔆 Favorites	Name	Date modified	Туре	Size	
E Desktop Downloads Complete Cocuments Music Pictures Videos Computer Computer Local Disk (C:)	攪 SQLEXPR_x86_ENU	4/5/2016 11:06 AM	Application	268,616 KB	
1 item					

Double-click on the SQLEXPR_x86_ENU application to begin. The SQL Server 2012 Express folder containing this file is located in the Support folder on the TMSComm CD-ROM.

🚡 SQL Server Installation Center	
Planning Installation	New SQL Server stand-alone installation or add features to an existing installation Launch a wizard to install SQL Server 2012 in a non-clustered environment or to add features to an existing SQL Server 2012 instance.
Maintenance Tools Resources	Upgrade from SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 Launch a wizard to upgrade SQL Server 2005, SQL Server 2008 or SQL Server 2008 R2 to SQL Server 2012.
Microsoft SQL Server 2012	
Clic	k on New SQL Server… to begin.
ote: If upgrading from one SQL Server to be	a previous version of SQL Server, click on Upgrade egin the upgrade process.
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SQL Server 2012 Setup	
License Terms	
To install SQL Server 20	12, you must accept the Microsoft Software License Terms.
L icense Terms Product Updates	MICROSOFT SOFTWARE LICENSE TERMS
Install Setup Files	MICROSOFT SQL SERVER 2012 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 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
	sunnort services
	⊂a a <u>C</u> opy <u>P</u> rint
	I accept the license terms.
	Send <u>f</u> eature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.
	See the Microsoft SQL Server 2012 Privacy Statement for more information.
	< <u>B</u> ack <u>N</u> ext > Cancel

Review the license agreement and check the box labelled "I accept the license terms" to accept the terms.

Note: Checking the "Send feature usage data to Microsoft..." box will send select data to Microsoft. This does not need to be checked for TMSComm to operate correctly but will also not negatively affect TMSComm by choosing to submit this data to Microsoft. Use discretion when making this decision.

SQL Server 2012 Setup	
License Terms	
To install SQL Server 2012	2, you must accept the Microsoft Software License Terms.
icense Terms Product Updates	MICROSOFT SOFTWARE LICENSE TERMS
install Setup Files	MICROSOFT SQL SERVER 2012 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Place 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 undates.
	 supplements,
	Internet-based services, and
)• sunnort services
	<u>C</u> opy <u>P</u> rin
	Send feature usage data to Microsoft. Feature usage data includes information about your hardware configuration and how you use SQL Server and its components.
	See the Microsoft SQL Server 2012 Privacy Statement for more information.
	< <u>B</u> ack Cancel
	Click Next to continue.

SQL Server 2012 Setup		
Feature Selection		
Select the Express features to i	nstall.	
etup Support Rules eature Selection Installation Rules Instance Configuration Disk Space Requirements Disk Space Requirements Dist Space Requirements Dist Space Requirements Distabase Engine Configuration Patabase Engine Configuration Installation Configuration Rules Installation Progress Complete	Eeatures: Database Engine Services SQL Server Replication Shared Features SQL Client Connectivity SDK Redistributable Features	Feature description: The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on the same computer. <u>Prerequisites for selected features:</u> Already installed: Windows PowerShell 2.0 Microsoft .NET Framework 3.5 Microsoft .NET Framework 4.0
	Select <u>A</u> II <u>Unselect AII</u> Shared feature directory: C:\Program F Shared feature directory (<u>x</u> 86): C:\Program F	iles\Microsoft SQL Server\ iles (x86)\Microsoft SQL Server\ < <u>B</u> ack <u>N</u> ext > Cancel Help
te: Do not make SQL Server admi	Click Next to con any changes unless other histrator.	tinue. wise directed by Pneumercator

SQL Server 2012 Setup				
Instance Configuratio	n			
Specify the name and instanc	e ID for the instance of SQL	Server. Instance ID becomes part of the installa	tion path.	
etup Support Rules eature Selection	 <u>D</u>efault instance N<u>a</u>med instance: 	SQLExpress		
nstallation Rules Instance Configuration				
isk Space Requirements	Instance <u>I</u> D:	SQLEXPRESS		
atabase Engine Configuration	Instance <u>r</u> oot directory:	C:\Program Files (x86)\Microsoft SQL Server\		
rror Reporting nstallation Configuration Rules nstallation Progress	SQL Server directory:	C:\Program Files (x86)\Microsoft SQL Server\M	MSSQL11.SQLEXPRESS	
Complete	Installed instances:			
	Click	< <u>Back</u> <u>N</u> ext >	Cancel Help	
	Click	< <u>Back</u> Next > Next to continue.	Cancel Help	
te: Do not make SQL Server admi	Click any changes u nistrator.	< <u>Back</u> Next > Next to continue. Inless otherwise directed	Cancel Help	or
te: Do not make SQL Server admi	Click any changes u nistrator.	< <u>Back</u> Next > Next to continue. Inless otherwise directed	Cancel Help	or
te: Do not make SQL Server admi	Click any changes u nistrator.	< Back	Cancel Help	or
te: Do not make SQL Server admi	Click any changes u nistrator.	<u>Kack</u> Next > Next to continue. Inless otherwise directed	Cancel Help	or
te: Do not make SQL Server admi	Click any changes u nistrator.	Next to continue. Inless otherwise directed	Cancel Help	or

SQL Server 2012 Setup				
Server Configuration				
Specify the service accounts and	d collation configuration.			
Setup Support Rules	Service Accounts Collation			
eature Selection	Microsoft recommends that you	use a separate account for each	SOL Server serv	vice.
nstallation Rules	Sensico	Account Name	Decement	Startun Tuna
histance Configuration	SOL Server Database Engine	Account Name	Passworu	Automatic 💌
	SQL Server Browser			Disabled •
atshase Engine Configuration				District
		< <u>B</u> ack <u>N</u> ext	> Car	ncel Help
	Click Next to	< <u>Back</u> Next	> Car	ncel Help
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	<a>Eack Next o continue. otherwise directed	> Car	
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	<a>Eack Next o continue. otherwise directed	> Car	
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	<u>ext</u> <u>Next</u> o continue. otherwise directed	> Car	
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	o continue. otherwise directe	> Car	
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	Seck Next O continue. otherwise directed	> Car	ncel Help
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	<u>ext</u> o continue. otherwise directed	> Car	
ote: Do not make a SQL Server admin	Click Next to any changes unless istrator.	<u>ext</u> o continue. otherwise directed	> Car	ncel Help

SQL Server 2012 Setup		
Database Engine Confi Specify Database Engine auther	guration	
Setup Support Rules	Server Configuration Data Directories User Instances	
Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Error Reporting Installation Configuration Rules Installation Progress Complete	Specify the authentication mode and administrators for the Database Authentication Mode Windows authentication mode Mixed Mode (SQL Server authentication and Windows authentication Specify the password for the SQL Server system administrator (sa) according Enter password: Confirm password: Specify SQL Server administrators Windows 764-ROWindows 7.64 (Windows 7.64)	Engine.
	Add Current User Add Remove	have unrestricted access to the Database Engine.

Click Next to continue.

Note: Windows Authentication Mode is the default security setting for SQL. This integrates the SQL security layer into the Windows security layer. This is ideal for applications where the default Security Policy is in effect. Select Security Policy changes can cause compatibility issues with Windows Authentication Mode. In those applications, change the Authentication Mode to Mixed Mode to keep those security layers separate. See the following page for additional details on Mixed Mode Security.

Note: Do not make any changes on any tabs unless otherwise directed by Pneumercator or a SQL Server administrator.

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Server Configuration Data Directories User Instances	
Specify the authentication mode and administrators for the Da Authentication Mode Mindows authentication mode Mixed Mode (SQL Server authentication and Windows authentication authentiteation authentication authentication authen	tabase Engine. :ntication) :sa) account.
Windows764-PC\Windows 7 64 (Windows 7 64) Add Current User Add	SQL Server administrators have unrestricted access to the Database Engine.
	Windows authentication mode Image: Mixed Mode (SQL Server authentication and Windows authentication and Windows authentication and Windows authentication and Windows authentication (Enter password: enter system administrator (Enter password: enter system) Confirm password: enter password: enter system administrator (Enter password: enter system) Specify SQL Server administrators Enter password: enter system) Specify SQL Server administrators Windows 764-PC\Windows 7 64 (Windows 7 64) Add Current User Add Remove < Back

Note: The above screen represents the change to Mixed Mode Authentication. If Windows Authentication has already been selected from the previous page, proceed to the next page.

Mixed Mode Authentication requires that a password be defined for the SQL System Administrator (sa). Enter the password above to be in compliance with the Security Policy in effect and click Next to continue.

Error Reporting Help Microsoft improve SQL Server features and services. Setup Support Rules Feature Selection Installation Rules Instance Configuration Disk Space Requirements Server Configuration Database Engine Configuration Enstallation Configuration Rules Installation Progress Complete Send Windows and SQL Server Error Reports to Microsoft and the services of any applies to services that run without user interaction	ally send to Microsoft to improve future releases s this information as confidential. Microsoft y feature usage data. These updates might be t, depending on your Automatic Update nore information. e. oft or your corporate report server. This setting n.
Help Microsoft improve SQL Server features and services. Setup Support Rules Feature Selection Installation Rules Installation Rules Installation Rules Disk Space Requirements Server Configuration Database Engine Configuration Installation Configuration Rules Installation Configuration Rules Installation Progress Complete Send Windows and SQL Server Error Reports to Microsoft only applies to services that run without user interaction only applies to services that run without user interaction	ally send to Microsoft to improve future releases s this information as confidential. Microsoft y feature usage data. These updates might be , depending on your Automatic Update <u>nore information.</u> <u>e.</u> oft or your corporate report server. This setting n.
Setup Support Rules Specify the information that you would like to automatical of SQL Server. These settings are optional. Microsoft Update to modify downloaded and installed on your machine automatically, settings. Installation Rules Specify the information that you would like to automatical of SQL Server. These settings are optional. Microsoft Update to modify downloaded and installed on your machine automatically, settings. Disk Space Requirements Server Configuration Database Engine Configuration See the Microsoft SQL Server 2012 Privacy Statement for measure about Microsoft Update and Automatic Update Installation Configuration Rules Read more about Microsoft Update and Automatic Update Installation Progress Send Windows and SQL Server Error Reports to Microsoft only applies to services that run without user interaction	ally send to Microsoft to improve future releases s this information as confidential. Microsoft y feature usage data. These updates might be r, depending on your Automatic Update <u>nore information.</u> <u>e.</u> oft or your corporate report server. This setting n.
Complete U only applies to services that run without user interaction	n.
< <u>B</u> ack	Next > Cancel Help
Click Next to continue.	
ote: Checking the "Send" box will send select of ot need to be checked for TMSComm to operate egatively affect TMSComm by choosing to submi- scretion when making this decision.	data to Microsoft. This doe e correctly but will also n it this data to Microsoft. Us

SQL Server 2012 Setup			×
Complete			
Your SQL Server 2012 installa	tion completed successfully with product upd	ates.	
etup Support Rules	Information about the Setup operation or	possible next steps:	
eature Selection	Feature	Status	
istaliation Rules	🖉 Database Engine Services	Succeeded	
istance Configuration	SQL Server Replication	Succeeded	-
isk Space Requirements	🖉 SQL Browser	Succeeded	-
erver Configuration	SQL Writer	Succeeded	
atabase Engine Configuration	SQL Client Connectivity	Succeeded	-
rror Reporting	IM SOL Client Connectivity SDK	Succeeded	
nstallation Configuration Rules			
- nstallation Progress	Details:		
omplete	Viewing Product Documentation fo	r SOL Server	
	Only the components that you use to been installed. By default, the Help Vi SQL Server, you can use the Help Lib your local computer. For more informa < <u>http://go.microsoft.com/fwlink/?LinkIl</u>	view and manage the documentation for SQL Server have ewer component uses the online library. After installing rary Manager component to download documentation to tion, see <u>Use Microsoft Books Online for SQL Server</u> D=224683>.	
	Summary log file has been saved to the fo	llowing location:	
	C:\Program Files (x86)\Microsoft SOL Set	ver\110\Setup Bootstrap\Log\20170205 150935	
	\Summary Windows764-PC 20170205 15	0935.bt	
		Close Help	

Click Close to complete the installation. Double-click on the TMSComm Setup application and proceed to Section 3.

Note: If any of the items listed in the window above fail to show a green check mark, contact Pneumercator. It is important to note the first error message that occurs during the installation process to minimize the amount of time needed troubleshooting the problem. The above list may not reflect all of the items installed on your particular computer. Additional items may be installed based on the scans that are performed on your computer as part of the installation process.

SECTION 3 TMS COMMUNICATOR

The illustrations below document the TMS Communicator installation process. SQL Server must be installed and accessible to TMS Communicator. The below process may be started by either double-clicking the TMSComm Setup application as a result of following the instructions in the beginning of Section 1 or end of Section 2 OR may be manually initiated by double-clicking the Pneumercator TMSComm.msi file on the CD for previously existing SQL Server installations as indicated in the Overview Section.



Click Next to continue

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	😸 Pneumer	cator TMSComm - I	nstallShield Wizari	4		×	
	Destination Click Nex	on Folder t to install to this folde	er, or click Change to	o install to a differe	ent folder.	45	
	Ø	Install Pneumercator C:\tmscomm\	TMSComm to:		Cha	nge	
	InstallShield –						
		Cl	ick Next to	continue		incei	
Note: Cl Commur	ick the C nicator.	Change bu	tton to sele	ect the ins	tallation lo	ocation f	or TMS
TMSComm Ins	tallation Manua	.docx				Febru	uary 12, 2017

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Pneumercator TMSComm - InstallSI	hield Wizard 📃 📈
Ready to Install the Program	
The wizard is ready to begin installatio	n.
If you want to review or change any o exit the wizard.	of your installation settings, click Back. Click Cancel to
Current Settings:	
Setup Type:	
Standard Installation	
Destination Folder:	
C:\tmscomm\	
User Information:	
Name: Windows 7 64	
Company:	
I nstallShield	
	< Back

Click Install to begin the installation.



Click Finish to complete the installation

Note: SQL Setup must be run prior to using TMSComm. Leave the Run TMSComm SQL Setup checkbox checked to automatically proceed with running SQL Setup. This may be manually run at a later time by choosing SQL Setup from the Start Menu in the Pneumercator group. See Section 4 for instructions.

Note: The Show the Windows Installer log checkbox may be checked if additional details are needed regarding a failed installation attempt.

SECTION 4 SQL SETUP

SQL Setup must be run prior to using TMS Communicator or if any changes to the SQL Server configuration are made. This process creates the TMSComm database and defines the SQL Connection string for accessing this database.

4.1 BASIC SETUP

🗊 TMSComm Sql Setup
 Please choose a setup type. Basic Setup (Recommended) Database resides on Workstation Uses integrated security to connect to database server Uses default database name TMSCOMM
 Advanced Setup Database can resides on workstation or remote server Can uses integrated or standard SQL security to connect to database server Can tweak connection string prior to saving Can choose database name other than the default
Cancel << Previous Next >> Create

Basic Setup is selected by default. This allows SQL Setup to create the TMSComm database in SQL for instances where all of the default settings were used when installing SQL Server.

🗊 TMSCom	m Sql Setup	
Do you wa NOTE: Imp database. O Import Data Path: C:\tmscor O Do No	nt to import data from an older, file-based version of porting will overwrite any data that exists in the selec Existing Data nm\ t Import Existing Data	TMSComm? ted SQL
Cancel	// Provinue	Greate
	Click Next to continue	
Note: Change the set TMSComm version 01 files in the TMSCOMM	etting to Import Existing Dat .00.00 or earlier. All data cont I folder will be imported into th	ta only if upgrading from ained in the DBF and MDX ne SQL database.
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	ữ TMSComm Sql Setup	
	TMSComm Sql Setup has all the information it needs to initial environment. Please click CREATE below to start the initializ	ize your database ation.
	Cancel << Previous <u>N</u> ext>>	Create
Click Create. TMSCOMM in the TMSCOM how to access	This will begin the process of creater SQL Server for TMSComm to use a M.INI file containing the Connection S the database.	eating the database named and will subsequently create String that directs TMSComm
	TMSComm Sql Setup	
	SqlSetup has completed. Details will be save in the log	ı file : SqlSetup.log
Clic	k OK to acknowledge the process ha	as been complete.
TMSComm Installation I	Manual.docx PAGE 39 -	February 12, 2017

TMSComm Sql Setup TMSComm Sql Setup has all the information it needs to i environment. Please click CREATE below to start the in	nitialize your database tialization.
Checking to see if Database Service is running Opening DB Connection Using Connection String : Provider=SQLOLEDB.1;Data Creating Database Creating Tables Creating Stored Procedures Initializing TMSComm Security Initializing Product Codes Writing Connection String and Database Name to TMS	Source=(local)\SQL
<	Þ
<u>Cancel</u> << <u>Previous</u> <u>N</u> ext >>	Create

The final process listed above indicates the process has been completed. This window may be closed once this is complete. If any errors occurred during this process, contact Pneumercator for further assistance.

💽 Program Compatibility Assistant
This program might not have installed correctly
If this program didn't install correctly, try reinstalling using settings that are compatible with this version of Windows.
Program: SqlSetup Publisher: SqlSetup Location: C:\tmscomm\SqlSetup.exe
Reinstall using recommended settings
This program installed correctly
Cancel
What settings are applied?

This window may be closed either by clicking the X in the top right corner or by clicking This program installed correctly.

The installation of TMS Communicator has now been completed. See the TMS Communicator Operations Manual for instructions on using TMS Communicator.

4.2 ADVANCED SETUP 🗊 TMSComm Sql Setup Please choose a setup type. Basic Setup (Recommended) Database resides on Workstation Uses integrated security to connect to database server Uses default database name TMSCOMM Advanced Setup Database can resides on workstation or remote server Can uses integrated or standard SQL security to connect to database server Can tweak connection string prior to saving Can choose database name other than the default << Previous Cancel Next>> Create Click Next to continue Advanced Setup is used under the following circumstances:

- Mixed Mode Authentication needed: This may be required to support select changes to the Windows Security Policy.
- Remotely located SQL Server
- A different database name other than the default of TMSCOMM needs to be assigned
- The SQL Administrator requires the ability to manually tweak the Connection String

TMSComm run run on this wo network.	ns in conjuction with a database se rkstation or can be run on a remote	rver. The database server can e server that is accessible via a
Run the D	atabase Server on this Workstation	n (Recommended)
C Remote D	atabase Server	

Select from the following:

- Run the Database Server on this Workstation: SQL Server resides on the same computer as TMSComm.
- Remote Database Server: SQL Server resides on a separate computer.

Click Next to continue

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r	_
🗊 TMSComm Sql Setup	
You have indicated that you are using a database server residing on this workstation. Please provide the following information about this server:	
Windows Service Name:	
MSSQL\$SQLEXPRESS	
C Use Default Instance	
Use the following Named Instance	
JSULEXPRESS	
Cancel << Previous Next >> Create	
	_
🗊 TMSComm Sql Setup 📃 🖃 🔤	
You have indicated that you are using a remote database server. Please provide the following information about this server:	
Bemote Server	
RemoteServerName	
C. Use Default Instance	
 Use the following Named Instance 	
SQLEXPRESS	
Cancel << Previous Next >> Create	
Specify the Windows Service Name or Remote Server Name and Ser	QL Instance
Name. The default values reflect the default settings used with a	SQL Server
Express installation.	
Click Next to continue	
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🕼 TMSComm Sql Setup	- • •
The database engine (SQL Sever) has two modes of authentication. Integrated (or windows) security, and standard security. If you choose to use standard security, you will need to enter a database user id and password.	
Windows 98/ME users running a local database engine SQL security.	should choose standard
Integrated SQL Security (Recommended)	
C Standard SQL Security	
Database UserID:	
sa	
Database Password:	
robust	
Cancel << Previous	Create

Selecting Integrated SQL Security selects Windows Authentication. This is selected by default with a SQL Server Express installation. Click Next to continue or change the Authentication method to Mixed Mode as detailed on the following page.

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TMSComm Sql Setup	- • •
The database engine (SQL Sever) has two modes of auth (or windows) security, and standard security. If you choose security, you will need to enter a database user id and pas	entication. Integrated to use standard sword.
Windows 98/ME users running a local database engine should choose standard SQL security.	
C Integrated SQL Security (Recommended)	
 Standard SQL Security 	
Database UserID:	
sa	
Database Password:	
robust	
· · · · · · · · · · · · · · · · · · ·	
Cancel << Previous Next >>	Create

If previously selected Integrated SQL Security/Windows Authentication, advance to the next page.

Standard SQL Security selects SQL Mixed Mode Authentication. This method requires a User ID (default is sa for the System Administrator) and Password that complies with the current Windows Security Policy. This is typically selected to avoid the incompatibilities between SQL Windows Authentication and changes to the default Windows Security Policy.

	🗊 TMSComm Sql Setup	
	This is the connection string that TMSComm will use to connect server. Advance users may decide to modify it.	ot to the database
	Connection String:	
	Provider=SQLULEDB.1;Data Source=[local]\SQLEXPRESS;L	Jser Id=sa;Passwc
	Cancel << Previous Next >>	Create
Modify the a default string	bove Connection String as directed by yo g reflects the answers given on the previ	our SQL Administrator. The ous screens in SQL Setup.
	Click Next to continue	

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_			
	🗊 TMSComm Sql Setup		
	Please enter the database name that will hold your data. Database Name:		
	<u>Cancel</u> <u>Next>></u>	Create	
Change the D	Database Name, if necessary. Click Nex	xt to continue.	
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The default selection of Create Database is used for new installations of SQL Server or if the existing database needs to be overwritten.

Select Use Existing Database if the SQL Administrator has manually created the database. Uncheck the Create tables in Database checkbox if no changes will be made to the existing database and SQL Setup is simply being executed to create the SQL Connection String in the TMSCOMM.INI file.

Click Next to continue

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	🗊 TMSComm Sql Setup			
	Do you want to import data fro NDTE: Importing will overwrite database. C Import Existing Data Data Path: C:\tmscomm\ C Do Not Import Existing Data	im an older, file-based version of T any data that exists in the selecte	MSComm? ed SQL	
	Cancel<< Prev	/ious <u>N</u> ext >>	C <u>r</u> eate	
	Click	Next to continue		
Note: Chang TMSComm ve files in the TM	e the setting to In ersion 01.00.00 or e ISCOMM folder will	nport Existing Data arlier. All data conta be imported into the	a only if upg ained in the Di e SQL databa	grading from BF and MDX se.
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_		
	🕼 TMSComm Sql Setup	
	TMSComm Sql Setup has all the information it needs to initialize environment. Please click CREATE below to start the initialization	your database on.
	Cancel << Previous Next >>	Create
Click Create. TMSCOMM in the TMSCOM how to access	This will begin the process of crean SQL Server for TMSComm to use an M.INI file containing the Connection Stres the database.	ting the database named nd will subsequently create ring that directs TMSComm
	TMSComm Sql Setup	
	SqlSetup has completed. Details will be save in the log fil	e : SqlSetup.log
	OK	
Clic	ck OK to acknowledge the process has	been complete.
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TMSComm Sql Setup TMSComm Sql Setup has all the information it needs environment. Please click CREATE below to start the	to initialize your database initialization.
Checking to see if Database Service is running Opening DB Connection Using Connection String : Provider=SQLOLEDB.1;D- Creating Database Creating Tables Creating Stored Procedures Initializing TMSComm Security Initializing Product Codes Writing Connection String and Database Name to TM	ata Source=(local)\SQL
<	Þ
<u>Cancel</u> << <u>Previous</u> <u>N</u> ext	>> C <u>r</u> eate

The final process listed above indicates the process has been completed. This window may be closed once this is complete. If any errors occurred during this process, contact Pneumercator for further assistance.

💽 Program Compatibility Assistant
This program might not have installed correctly
If this program didn't install correctly, try reinstalling using settings that are compatible with this version of Windows.
Program: SqlSetup Publisher: SqlSetup Location: C:\tmscomm\SqlSetup.exe
Reinstall using recommended settings
This program installed correctly
Cancel
What settings are applied?

This window may be closed either by clicking the X in the top right corner or by clicking This program installed correctly.

The installation of TMS Communicator has now been completed. See the TMS Communicator Operations Manual for instructions on using TMS Communicator.

PNEUMERCATOR TMS SERIES

LIMITED WARRANTY

TMS Series

Pneumercator, here and after referred to as **PCO**, warrants its **TMS Series** family of products to be free of defects in material and workmanship for a period of **Twelve (12) months** from date of installation or **Fifteen (15) months** from date of invoice, whichever comes first.

During the warranty period on the **TMS Series**, **PCO**, or factory third party independent representatives will repair or replace the product at the location where it is installed at no additional cost to the customer.

Packages must be inspected upon receipt for damage, missing parts, and/or manuals. **PCO** must be contacted by telephone immediately with a description of damaged or missing parts so replacements can be sent. Written details must be sent within **thirty (30) days**.

Pneumercator will not be responsible for shipping charges incurred by the customer.

Warranty repair coverage invoices will be paid if **all** the following conditions are met:

- PCO has acknowledged and authorized warranty work to be done by issuing a Warranty Repair Number.
- Start-up Service technician has been trained by PCO
- Warranty start-up form has been submitted to PCO
- Technician fills out and submits a PCO "Service Report"
- Parts (if any) used are returned to PCO with a proper WRGA (Warranty Return Goods Authorization)
- Returned parts are found to be defective.

Repair time will be paid according to PCO document "Standard Warranty Labor Charge Schedule"

If the Warranty Registration/Start up Check List has been completed and returned on file with the factory and the product is installed in accordance with the specific PCO Installation Product Manual, PCO will activate and meet warranty criteria as described above. Warranty criteria shall be voided if any product has been subjected to misuse, negligence, damage from acts of nature (lightning, wind, rain, etc.) or is in violation of the products design intent, disregard to warnings, instructions, modified or repaired by unauthorized personnel or improperly installed. Given that the third party independent contractor has installed the equipment in accordance with the specific product instruction manual, and followed all precautions, PCO will fulfill the terms stated in our warranty obligation.

Under no circumstances does the warranty provide a remedy in excess of the equipment. No other expressed or implied warranty is given by PCO. PCO shall not be liable for consequential damages or any expenses incurred by the user.



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