

Vitalograph - Spirotrac Installation - • • **Witalograph** A Global Leader in Respiratory Diagnostics Spirotrac Installation Spirotrac →Install Spirotrac Welcome to the Vitalograph Spirotrac Installer. →Launch Spirotrac IFU Administrator rights are required to install Spirotrac. →View Spirotrac Release Notes Components which will be installed include Microsoft Database Studio SQL Server Express and the Microsoft .NET Framework Versions 4.5, if not already installed. Install Database Studio **Other Applications** For further information or assistance contact →Install SQL Server technical.support@vitalograph.ie →Install Connect →View Connect Release Notes →Install Teamviewer Drivers Install USB Pneumotrac **Other Manuals** →Launch Connect IFU →Connect Manuals

On Database Host (Server hosting Spirotrac database)

Select Install SQL Server





Select "Use Spirotrac with local and network databases" - Continue

On completion of MS SQL Server installation, run the setup.hta file





Select Install Database Studio



Select language - Next





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Review the End-User License Agreement – select "I accept the terms in the License Agreement"

🗟 Vitalograph Database Studio 6.2.48 Setup	x
End-User License Agreement	Va
Please read the following license agreement carefully	0
Software License Agreement	*
This is a legal agreement between you, the end user (USER), and Vitalograph Ltd., a Company registered in England, jointly and severally with its Associated Companies (VITALOGRAPH).	
BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE COMPLETE SOFTWARE PACKAGE AND THE ACCOMPANYING ITEMS (including written materials and binders or other containers) TO THE PLACE YOU OBTAINED THEM FOR A FULL REFUND.	
I accept the terms in the License Agreement	
I do not accept the terms in the License Agreement	
Advanced Installer	
< Back Next > Can	cel



Vitalograph Database Studio 6.2.48 Setup	
Select Installation Folder	
This is the folder where Vitalograph Database Studio 6.2,48 will be	installed.
To install in this folder, click "Next". To install to a different fo <mark>lder, e</mark> "Browse".	enter it below or click
Folder:	
C:\Program Files\Vitalograph\Database Studio\	Browse
vanced Installer	
< Back Nevi	t Cancel
L DOOL HICK	Cancer

Select Next

🐻 Vitalograph	Database Studio 6.2.48 Setup	x
Ready to I	nstall	
The Setup installation	Wizard is ready to begin the Vitalograph Database Studio 6.2.48	2
Click Insta installation	Il to begin the installation. If you want to review or change any of your settings, dick Back. Click Cancel to exit the wizard.	
Advanced Insta	ler	
	< Back Install Cancel	

Select Install





Select Finish

Spirotrac Database Studio

Spirotrac Database Studio	-24							- ª X
	MIGRATION LO	G					NEW M	IGRATION
	Title	Spirotrac 5 Connection	Spirotrac 6 Connection	Start Date	End Date	Subjects Processed	Status	Action
CREATE DATABASE								
SETTINGS								
i about								
(? HELP								
SOFTWARE VERSION 6.2.48								
SYSTEM NAME								

Select Create Database



Spirotrac Database Studio		
MIGRATE DATA	Database Creation	Instance v
CREATE DATABASE	 Ensure file stream is enabled. SQL Server Version 14 upwards supported. 	Database Name
UPGRADE DATABASE		
SETTINGS		
i] ABOUT		
P HELP		
SOFTWARE VERSION 6.2.48 SYSTEM NAME	CREATE	

Select Instance (Default is Spirotrac)

Enter Database Name

Spirotrac Database Studio		- 8
		Instance
E MIGRATE DATA	Database Creation	SPIROTRAC
	Ensure file stream is enabled.	
CREATE DATABASE	SQL Server Version 14 upwards supported.	Database Name
		NetworkDB
UPGRADE DATABASE		
ABOUT		
A HER		
L? neur		
SOFTWARE VERSION 6.2.48		
SYSTEM NAME	CREATE	

Select Create



In successful database creation the following message will be reported:



Select OK

Configuring the database for remote connection via SQL authentication:

Install MS SQL Server Management Studio – application is available from the Microsoft website, ensure that the version downloaded is compatible with the version of MS SQL Server hosting the Spirotrac 6 database (MS SQL Server 2014 is the version supplied with Spirotrac 6).



Select "New SQL Server stand-alone installation or add features to an existing installation"



Use Microsoft Update to ch	neck for important updates
Global Rules Microsoft Update Product Updates Install Setup Files Installation Type License Terms Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	Microsoft Update offers security and other important updates for Windows and other Microsoft software, including SQL Server 2014. Updates are delivered using Automatic Updates, or you can visit the Microsoft Update website. Use Microsoft Update to check for updates (recommended) <u>Microsoft Update FAQ</u> <u>Microsoft Update Privacy Statement</u>

Installation Type Perform a new installation or ad	ld features to an existing	instance of SQL Serve	r 2014.		
Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Installation Type License Terms Feature Selection Feature Rules Easture Configuration Rules	 Perform a new insta Select this option in components such : Add features to an SPIROTRAC Select this option in want to add the An within an instance 	allation of SQL Server 2 f you want to install a as SQL Server Manager existing instance of SQ f you want to add feat nalysis Services feature must be the same editi	014 new instance of SQL S ment Studio or Integra L Server 2014 ures to an existing ins s to the instance that on.	erver or want to i tion Services. tance of SQL Sen contains the Data	install shared ver. For example, you abase Engine. Features
		Instance ID	Features	Edition	Version
Installation Progress	Instance Name				
Installation Progress Complete	Instance Name SPIROTRAC	MSSQL12.SPIROTR	SQLEngine, SQLEn	Express	12.3.6024.0
Installation Progress Complete	Instance Name SPIROTRAC <shared compone<="" td=""><td>MSSQL12.SPIROTR</td><td>SQLEngine, SQLEn SSMS</td><td>Express</td><td>12.3.6024.0 10.0.1600.22</td></shared>	MSSQL12.SPIROTR	SQLEngine, SQLEn SSMS	Express	12.3.6024.0 10.0.1600.22



Select Next



Select "I accept the license terms and Privacy Statement" - Next

Select the Express features	to install.		
Global Rules Microsoft Update Product Updates Install Setup Files Install Rules Installation Type License Terms Feature Selection Feature Rules Feature Configuration Rules Installation Progress Complete	Features: Instance Features Shared Features I Client Tools Connectivity Client Tools Backwards C Client Tools DaK Management Tools - Bas Management Tools - Bas SqL Client Connectivity S Redistributable Features Select All Unselect All	r compatibility ic Complete SDK	Feature description: The configuration and operation of each instance feature of a SQL Server instance is is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on Prerequisites for selected features: Already installed: Windows PowerShell 2.0 Microsoft .NET Framework 3.5 Image: Space Requirements Drive C: 995 MB required, 5040 MB available
	Instance root directory: Shared feature directory:	C:\Program File C:\Program File	s\Microsoft SQL Server\



Ensure all Shared Features are enabled - Next



Select Close

Launch MS SQL Server

🔆 Microsoft SQL Server Management Studio (Administrator)				
File Edit View Tools Window Help				
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Object Explorer 🛛 🔻 부 🗙				
Connect * 🛃 🖳 🗑 💽 📓				
	Connect to Server			
	Microsoft SQL	Server 2014		
	•			
	Server type:	Database Engine	-	
	Server name:	DB-HOST\SPIROTRAC	•	
	Authentication:	Windows Authentication	•	
	User name:	DB-HOST\Administrator	· ·	
	Password:			
		Remember password		
	Connect	Cancel Help Optio	ons >>	

Select Server name and SQL Instance (Spirotrac is the default instance) - Connect





Right click on Security



Select New - Login

elect a page	Corint - Children			
P General	20 Script + 11 Help			
Server Roles User Mapping Securables	Login name:			Search
M Status	 SOL Server authoritication 			
				7
	Password:			
	Confirm password:			
	Specify old password			
	Old password:]
	✓ Enforce password policy			
	✓ Enforce password expira	ation		
	✓ User must change passv	word at next login		
	Mapped to certificate		-	-]
	Mapped to asymmetric key			Ĵ.
	Map to Credential			Add
onnection	Manned Credentials	Condential	Descrides]
Server: DB-HOST\SPIROTRAC		Credential	Provider	
Connection: DB-HOST\Administrator				
View connection properties				
rogress				Remove
Ready	Default database:	master		
N. 1				า้



Enter Login name – Select SQL Server authentication – Enter Password – Disable Enforce password policy.

🗄 Login - New				- • •
Select a page	🛒 Script 🔻 🛐 Help			
General Server Roles User Mapping Securables Status	Login name: Windows authentication SQL Server authentication Password: Confirm password: Specify old password Old password: Enforce password policy Enforce password expira User must change passw Mapped to certificate Mapped to asymmetric key	sqlaccount		Search
Connection	Map to Credential			Add
Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator IDB-HOST\Administrator	Mapped Credentials	Credential	Provider	
Progress				Remove
$\mathbb{A}_{\mathbb{A}_{q}^{(d)}}^{\mathbb{A}_{q}^{(d)}}$ Ready $\mathbb{A}_{q}^{(d)}$	Default database: Default language:	master <default></default>		•
			ОК	Cancel

Select User Mapping



Select a page	C Script	🗙 🔀 Halo					
😤 General	a) script						
Server Roles Iser Mapping	Users mapped to this login:						
Securables	Мар	Database	Default Schema				
🚰 Status		master					
		model					
		msdb					
		NetworkDB					
		tempdb					
	√ Guest	account enabled for: I	naster				
Connection	✓ Guest Database	account enabled for: r role membership for: n	naster				
Connection Server:	✓ Guest Database db_ac db_ba	account enabled for: n role membership for: n ccessadmin ackupoperator	naster naster				
Connection Server: DB-HOST\SPIROTRAC	Guest Database db_ac db_ba db_ba db_da	account enabled for: r role membership for: n ccessadmin ackupoperator stareader	naster naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator	Guest Database db_ac db_ba db_da db_da db_da db_da	account enabled for: n role membership for: n ccessadmin cckupoperator tareader atawriter fladmin	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator	Guest Database db_ac db_ba db_da db_da db_da db_dd	account enabled for: n role membership for: n ccessadmin ackupoperator stareader stawriter sladmin enydatareader	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator Wew connection properties	Guest Database db_ac db_ba db_da db_da db_da db_dd db_de db	account enabled for: n role membership for: n ccessadmin ackupoperator stareader stawriter Jladmin mydatareader enydatareader enydatawriter	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator Wiew connection properties Progress	Guest Database db_ac db_ba db_da db_da db_da db_da db_de db_de db_de db_de db_de db_de db_ov db_se	account enabled for: n role membership for: n ccessadmin sckupoperator stareader stawriter sladmin enydatareader enydatawriter wher scurityadmin	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator View connection properties Progress Ready Beady	✓ Guest Database db_ac db_ba db_da db_da db_da db_da db_da db_de db_de db_ee db_se ✓ public	account enabled for: n role membership for: n ccessadmin ackupoperator stareader stawriter stawriter stadmin enydatareader enydatawriter vner ccurityadmin	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator PIOST View connection properties Progress Ready	✓ Guest Database Ø db_ac Ø db_ba Ø db_da Ø db_da Ø db_de Ø db_de Ø db_de Ø db_se Ø public	account enabled for: n role membership for: n ccessadmin ackupoperator stareader stawriter Iladmin mydatareader enydatawriter wher worr worr	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator DB-HOST\Administrator Wew connection properties Progress Ready	Guest Database db_ac db_ba db_da db_da db_da db_da db_da db_de db_de db_de db_ee db_oe	account enabled for: r role membership for: r ccessadmin ackupoperator stareader stawriter Jladmin mydatareader enydatareader enydatawriter wner ccurityadmin	naster				
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator IDB-HOST\Administrator IDB-HOST\Administrator IDB-HOST View connection properties Progress Ready	Guest Database db_ac db_ba db_da db_da db_da db_dd db_de db_de db_de db_de db_ev db_se V public	account enabled for: r role membership for: r ccessadmin ackupoperator stareader stawriter dladmin mydatareader enydatareader enydatawriter vner ccurityadmin	naster				

Select and enable the Spirotrac 6 database (NetworkDB in the example) – set Default Schema to dbo – enable db_datareader, db_datawriter & db_owner.



General Securables User Mapping Securables Securables Map Database User master model mastb model mastb model mastb Image: Counce of the model mastb Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model Image: Counce of the model o								
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Securables Map Database User Default Schema Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster Imaster <td< td=""><td colspan="8">Users mapped to this login:</td></td<>	Users mapped to this login:							
Image: Status Image: Imag								
Image: model Image: model <td></td>								
Image: made Image: made </td <td></td>								
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator Image: Connection properties Image: Connect								
Connection Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator W ex connection properties Progress Ready								
Connection Guest account enabled for: NetworkDB Server: Database role membership for: NetworkDB Database role membership for: NetworkDB db_accessadmin db_backupoperator db_datareader db_datawriter db_datawriter db_datawriter db_datawriter db_datowriter db_cowner db_securityadmin db_securityadmin public 								
Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator DB-HOST\Administrator DB-HOST\Administrator DB-HOST\Administrator DB-HOST\Administrator db_datawriter db_ddladmin db_denydatareader db_denydatareader db_denydatareader db_denydatawriter V db_owner Progress Ready Ready								
DB-HOST/SPIROTRAC I db_datareader Connection: Db_ddatwriter DB-HOST/Administrator I db_ddadmin III: View connection properties View connection properties I db_denydatareader III: III: III								
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Image: Wew connection properties Image: db_denydatawriter Image: db_db_securityadmin Image: db_securityadmin Image: db_securityadmin Image: db_securityadmin Image: db_securityadmin Image: db_securityadmin Image: db_securityadmin								
Progress Ready Ready Ready								
Ready Public								
TICOUY								

Select OK

Right click on the Server\Instance name - Select Properties





Select a page	Corint - Ca Help				
Memory Processors	Z Scribt • 113 Left				
Security					
A Connections	Name	DB-HOST\SPIROTRAC			
Totabase Settings	Product	Microsoft SQL Server Express			
Advanced	Operating System	Microsoft Windows NT 6.1 (7601)			
Permissions	Platform	NT INTEL X86			
-	Version	12 0 6024 0			
	Language	English (United States)			
	Memory	3071 MB			
	Processors	1			
	Root Directory	C:\Program Files\Microsoft SQL Server\MSSQL12			
	Server Collation	Latin1 General CLAS			
	Is Clustered	False			
	Is HADR Enabled	Eslee			
Connection					
Server: DB-HOST\SPIROTRAC					
Connection:	Name				
DB-HOST Administrator	Name of the server and instance.				
DB-HOST\Administrator 말 <u>View connection properties</u>	Name of the server and instance. Changes to server properties a	nd settings may affect the performance, security, and			
Connocation DB-HOST Administrator View connection properties Progress Ready	Name of the server and instance. Changes to server properties a availability of this SQL Server in product documentation.	nd settings may affect the performance, security, and stance. Before making any such changes, consult the			

Select Security



🗄 Server Properties - DB-HOST	SPIROTRAC
Select a page General Memory Processors Security Connections Database Settings Advanced Permissions	Script Key Help Server authentication Vindows Authentication mode SQL Server and Windows Authentication mode Login auditing None Failed logins only Successful logins only Both failed and successful logins Server proxy account Enable server proxy account
Connection	Password:
Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator	Options Enable C2 audit tracing Cross database ownership chaining
Progress	
Ready	
	OK Cancel

Enable "SQL Server and Windows Authentication mode"

Select Connections



Server Properties - DB-HOST	\SPIROTRAC
Select a page General Memory Processors Security Connections Database Settings Advanced Permissions	Script V Help Connections Maximum number of concurrent connections (0 = unlimited): Use query governor to prevent long-running queries Use query governor to prevent long-running queries Default connection options: implicit transactions cursor close on commit ansi warnings ansi padding ANSI NULLS arithmetic abort V
Connection	Remote server connections
Server: DB-HOST\SPIROTRAC Connection: DB-HOST\Administrator	 Allow remote connections to this server Remote query timeout (in seconds, 0 = no timeout): 600 Require distributed transactions for server-to-server communication
Progress	
Ready	Configured values Configured values
	OK Cancel

Enable "Allow remote connections to the server" - Select OK



Select OK

Right click on the Server\Instance name



ile Edit View Debug To	ols Window Help		
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bject Explorer	+ 9 × 2		
Connect • 🛃 🛃 🗉 🝸 💆	13		
B 🚺 DB-HOST\SPIROTRAC	SOL Server 12.0 /02/		
🗉 🧰 Databases	Connect		
Security Security	Disconnect		
Replication	Register		
🗑 🦢 Management	New Query		
	Activity Monitor		
	Start		
	Stop		
	Pause		
	Returns		
	Restart		
	Policies		
	Farate		
	Stat DavarShall		
	Reports >		
	Refresh		
	Properties		

Select Restart

Microsoft	SQL Server Management Studio		
?	Are you sure you want to restart the MSSQL\$SPIROTRAC service	e on DB-HOST?	
Pa -		Yes	No

Select Yes to restart the service

Service Control	
Attempting to start the following service on DB-HOST MSSQL\$SPIROTRAC	
	Close

Service will restart - once complete, close MS SQL Server Management Studio.

Go to Start – Microsoft SQL Server 2014 – Configuration Tools – SQL Server 2014 Configuration Manager



SQL Server Configuration Manager (Local)	Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Services	SQL Server (SPIR	Running	Automatic	NT Service\MSSQL	4020	SQL Server
SQL Server Network Configuration	SQL Server Agent	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0	SQL Agent
2. SQL Native Client 11.0 Configuration	SQL Server Browser	Running	Automatic	NT AUTHORITY\LO	1652	SQL Browser

Expand SQL Server Network Configuration and select Protocols for SPIROTRAC (Note SPIROTRAC is the default instance name)



If status is "Disabled" - Right click Named Pipes



Select Enable





Select OK

If status is "Disabled" - Right clink TCP/IP



Select Enable



Select OK

Select SQL Server Services

File Action View Help						
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SQL Server Configuration Manager (Local)	Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Services	SQL Server (SPIR	Running	Automatic	NT Service\MSSQL	4020	SQL Server
SQL Server Network Configuration	SQL Server Agent	Stopped	Other (Boot, Syste	NT AUTHORITY\NE	0	SQL Agent
SQL Native Client 11.0 Configuration SQL Native Client 11.0 Configuration Aliases	DSQL Server Browser	Running	Automatic	NT AUTHORITY\LO	1652	SQL Browse

Right click SQL Server (SPIROTRAC)



File Action View Help = 🔿 🖄 🗊 🔒 🚺 🕑 🕕 💿 🕐						
SQL Server Configuration Manager (Local)	Name	State	Start Mode	Log On As	Process ID	Service Type
SQL Server Network Configuration Protocols for SPIROTRAC SQL Native Client 11.0 Configuration SQL Native Client Protocols Aliases	SQL Server Agent	Start Stop Pause Resume Restart	er (Boot, Syste omatic	NT AUTHORITY\NE NT AUTHORITY\LO	0 1652	SQL Agent SQL Browser
		Properties				

Select Restart – On completion, close SQL Server Configuration Manager.

Launch Windows Firewall with Advanced Security



Select Inbound Rules

Windows Fi	irewall with Advance	d Security													0 0 2
File Action	View Help														
** 20															
Windows Fi	irewall with Advance	Inbound Rules			_					_				Actions	
1 Inbound	d Rules	Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address	Protocol	Local Port	Remot *	Inbound Rules	
Connect	tion Security Rules	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	AB	No	Allow	No	SYSTEM	Any	Any	TCP	80	Any	New Rule	
Monitor	rina	BranchCache Hosted Cache Server (HTT,	BranchCache - Hosted Cach	AR	No	Allow	No	SYSTEM	Any	Any	TCP	443	Any	V Filter he Brofile	
20000000000	10.0	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow	No	%system	Any	Local subnet	UDP	3702	Any		
		Connect to a Network Projector (TCP-In)	Connect to a Network Proje	Private	No	Allow	No	%System	Any	Local subnet	TCP	Any	Any	Y Filter by State	

Select New Rule



would you like to create? ols connections for a program.
would you like to create? ols connections for a program.
ols connections for a TCP or UDP port. - Content Retrieval (Uses HTTP) * ols connections for a Windows experience.

Select Port







Select TCP

Enter 1433 (default port) in Specified local ports

Prew Inbound Rule Wizard	ł		×
Protocol and Ports			
Specify the protocols and ports	to which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or U	DP7	
Protocol and Ports	TCP		
 Action 	O UDP		
Profile			
Name	Does this rule apply to all local p	orts or specific local ports?	
	All local ports		
	Specific local ports:	1433	
		Example: 80, 443, 5000-5010	
	Learn more about protocol and p	ports	
			1
		< Back Next > Cancel	J



Select Next

Prev Inbound Rule Wiza	rd (x
Action		
Specify the action to be taken	when a connection matches the conditions specified in the rule.	
Steps: Protocol and Ports Action Profile Name	 What action should be taken when a connection matches the specified conditions? Allow the connection This includes connections that are protected with IPsec as well as those are not. Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security 	
	Rule node. Customize Block the connection	
	Learn more about actions < Back	

Select Allow the connection – Next

Profile	
Specify the profiles for which the	his rule applies.
Steps:	When does this rule apply?
 Rule Type Protocol and Ports 	
 Action Profile 	Applies when a computer is connected to its corporate domain.
Name	 Private Applies when a computer is connected to a private network location. Public Applies when a computer is connected to a public network location.
	Learn more about profiles



Select Next

Name		
Specify the name and description	f this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action	Nama	
Profile	None.	
Name		
	Description (optional):	

Enter Name for Rule

🔗 New Inbound Rule Wizard		×
Name		
Specify the name and description	of this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action	Name	
Profile	SQLTCP	
Name		
	Description (optional):	
	Karaka Kar Karaka Karaka Kar Karaka Karaka Ka Karaka Karaka Kar	



Select Finish

Windows Firewall with Advance	d Security													0 9 0
File Action View Help														
** 200 2 00														
P Windows Firewall with Advance	Inbound Rules												Actions	
inbound Rules	Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address	Protocol	Local Port	Remot *	Inbound Rules	
Connection Security Bular	O SQUTCP		All	Yes	Allow	No	Any	Any	Any	TCP	1433	Any	New Rule_	
Monitorina	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	Allow	No	SYSTEM	Any	Any	TCP	80	Any	Tiber by Drafile	
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No	Allow	No	SYSTEM	Any	Any	TCP	443	Any.		2
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	AB	No	Allow	No	%system	Arry	Local subnet	UDP	3702	Any	V Filter by State	
	Connect to a Network Projector (TCP-3o)	Connect to a Network Proje	Private	No	Allow	No	%System	Anv	Local subnet	TCP	Any	Anv	💎 Filter by Group	

Select New Rule



Select Port



Rule Type	
Select the type of firewall rule to	create.
Steps:	What type of a law would you like to consta?
Rule Type Protocol and Ports Action Profile Name	 Program Rule that controls connections for a program. Port Rule that controls connections for a TCP or UDP port.
	Predefined: BranchCache - Content Retrieval (Uses HTTP) v Rule that controls connections for a Windows experience.
	Custom Custom rule.
	Learn more about rule types

Select UDP

Protocol and Ports	
Specify the protocols and ports	to which this rule applies.
Steps: Protocol and Ports Action Profile Name	Does this rule apply to TCP or UDP? TCP UDP Does this rule apply to all local ports or specific local ports? All local ports Specific local ports: Example: 80, 443, 5000-5010
	Learn more about protocol and ports < Back



Enter 1434 (default port) in Specified local ports

🔐 New Inbound Rule Wizar	d		x
Protocol and Ports			
Specify the protocols and ports	to which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or U	DP?	
Protocol and Ports	C TCP		
 Action 	ODP		
Profile			
Name	Does this rule apply to all local p	orts or specific local ports?	
	All local ports		
	Specific local ports:	1434	
		Example: 80, 443, 5000-5010	
	Learn more about protocol and p	<u>iorts</u>	
		(Park) Next Course	
		< back Next > Cancel	

d 🔤
when a connection matches the conditions specified in the rule.
What action should be taken when a connection matches the specified conditions?
I Allow the connection
This includes connections that are protected with IPsec as well as those are not. Image: Connection of it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize Image: Customize and rules in the connection Security Rule node. Image: Customize and rules in the connection Image: Customize and rules in the connection Security Rule node. Image: Customize and rules in the connection Image: Customize and rules in the connection Security Rule node. Image: Customize and rules in the connection Image: Customize and rules and rules in the connection Security Rule node. Image: Customize and rules and rules in the connection Image: Customize and rules and rules in the connection Image: Customize and rules and rules in the connection Image: Customize and rules and rules and rules in the connection Image: Customize and rules and



Select Allow the connection - Next

Profile	
Specify the profiles for which t	this rule applies.
C1	
Steps: Rule Type Protocol and Ports Action	When does this rule apply?
Profile	Applies when a computer is connected to its corporate domain.
Name	 Private Applies when a computer is connected to a private network location. Public Applies when a computer is connected to a public network location.
	Learn more about profiles

🔗 New Inbound Rule Wizard		x
Name		
Specify the name and description of	of this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name:	
Name		
	Description (optional):	
		_
	< Back Finish Cancel	



Enter Name for Rule

Name		
opecify the name and description	f this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name:	
Name	SQLUDP	
	Description (optional):	
		_

Select Finish

🔐 Windows Foewall with Advance	d Security													
File Action View Help														
🗢 🍁 🖄 📷 🕞 🖬 🐻														
P Windows Firewall with Advance	Inbound Rules												Actions	
Inbound Rules	Name	Group	Profile	Enabled	Action	Override	Program	Local Address	Remote Address	Protocol	Local Port	Remot *	Inbound Rules	
Connection Security Rules	Ø SQLUDP		Al	Yes	Allow	No	Алу	Any	Any	UDP	1434	Any	New Rule_	
Menitoring	O SQLTCP		AE	Yes	Allow	No	Any	Any	Any	TCP	1433	Any	ST Filter by Drofile	
	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr.,	AB	No	Allow	No	SYSTEM	Any	Any	TCP	80	Any		÷
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	AB	No	Allow	No	SYSTEM	Any	Any	TCP	443	Any	V Filter by State	
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow	No	%system	Any	Local subnet	UDP	3702	Any	Filter by Group	

Select New Rule



Rule Type	84 14 10 H
Select the type of firewall ru	e to create.
Steps: Pule Type Program Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. Post Rule that controls connections for a TCP or UDP port.
	Predefined: BranchCache - Content Retrieval (Uses HTTP) Pule that controls connections for a Windows experience. Custom Custom Custom rule.
	< Back Next > Car

Select Program – Next

Program	
Specify the full program path	h and executable name of the program that this rule matches.
Steps:	Does this rule apply to all programs or a specific program?
Program	
 Program Action Profile 	All programs Rule applies to all connections on the computer that match other rule properties.
 Name 	This program path:
	Example: c.\path\program.exe %ProgramFiles%\browser\browser.exe
	Learn more about specifying programs



Select Browse

Default program:

C:\Program Files\Microsoft SQL Server\MSSQL12.SPIROTRAC\MSSQL\Binn\sqlservr

Favorites	Name	Date modified	Туре	Size	
E Desktop	DIITmp32	19/02/2019 16:26	File folder		
Downloads	Resources	19/02/2019 16:27	File folder		
E Recent Places	Templates	19/02/2019 16:26	File folder		
	BackupToUrl	07/09/2018 09:09	Application	41 KB	
Libraries	DatabaseMail	07/09/2018 09:16	Application	30 KB	
Documents	I DCEXEC	07/09/2018 09:09	Application	73 KB	
J Music	SQLAGENT	07/09/2018 09:09	Application	445 KB	
Pictures	🛃 SQLIOSIM	07/09/2018 09:09	Application	1,966 KB	
😽 Videos	💷 sqlmaint	07/09/2018 09:09	Application	94 KB	
	sqlservr	07/09/2018 09:09	Application	196 KB	
Computer	sqlstubss	07/09/2018 09:09	Application	25 KB	
🕌 Local Disk (C:)	💷 xpadsi	07/09/2018 09:17	Application	64 KB	
Network					

Select Open





Select Next

rivew inbound Kule wiz	ard
Action	
Specify the action to be take	n when a connection matches the conditions specified in the rule.
Steps:	
Rule Type	What action should be taken when a connection matches the specified conditions?
Program	Allow the connection
Action	This includes connections that are protected with IPsec as well as those are not.
Prome	O Allow the connection if it is secure
	Block the connection

Select Allow the connection - Next

Profile	
Specify the profiles for which	h this rule applies.
Steps:	When does this rule annly?
 Hule Type Program 	The Found the found apply 1
Action	☑ Domain
Profile	Applies when a computer is connected to its corporate domain.
Name	 Private Applies when a computer is connected to a private network location. Public Applies when a computer is connected to a public network location.
	Learn more about profiles
	< Back Next > Cancel



Name		
Specify the name and descrip	ion of this rule.	
Steps:		
Rule Type		
Program		
Action		
Profile	Name:	
Name		
	Description (optional):	

Enter Rule name

Name	
Specify the name and descrip	ion of this rule.
Steps:	
Rule Type	
Program	
Action	
Profile	Name:
Name	SQLSVR
	Description (optional):

Select Finish

Close Windows Firewall



On Spirotrac 6 Client:

Run the setup.hta file:

/italograph - Spirotrac Installation	
A Global J	alograph [®]
Spirotrac →Install Spirotrac IFU →View Spirotrac Release Notes Database Studio →Install Database Studio Other Applications →Install SQL Server →Install Connect →View Connect Release Notes →Install Teamviewer Drivers →Install USB Pneumotrac Other Manuals →Launch Connect IFU →Connect Manuals	 Spirotrac Installation Welcome to the Vitalograph Spirotrac Installer. Administrator rights are required to install Spirotrac. Components which will be installed include Microsoft SQL Server Express and the Microsoft .NET Framework Versions 4.5, if not already installed. For further information or assistance contact technical.support@vitalograph.ie
	Copyright © 2021 Vitalograph

Select "Install Spirotrac"





Select Language - Next





8	Vitalograph Spirotrac 6.2.48 Setup			×
	Prerequisites Select which prerequisites will be installed			1
	Name	Required	Found	Action
	 ✓ Windows6. 1-KB28 19745-x86-MultiPkg .NET Framework 4.5.1 ✓ USBPneumotracDriver 	4.0 or higher	Installed	Install Skip Install
Ad	vanced Installer —	< Back	Next >	Cancel

Select Next





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containers) TO THE PLACE YOU C	DBTAINED THEM FOR A FULL REFUND.
······································	se Agreement
I accept the terms in the Licens	
 I accept the terms in the Licens I do not accept the terms in the 	e License Agreement
I accept the terms in the Licens I do not accept the terms in the dvanced Installer	e License Agreement

Review the End-User License Agreement – Select "I accept the terms in the License Agreement"

S Vitalograph Spirotrac 6.2.48 Setup
End-User License Agreement
Please read the following license agreement carefully
Software License Agreement
This is a legal agreement between you, the end user (USER), and Vitalograph Ltd., a Company registered in England, jointly and severally with its Associated Companies (VITALOGRAPH).
BY INSTALLING THIS SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE COMPLETE SOFTWARE PACKAGE AND THE ACCOMPANYING ITEMS (including written materials and binders or other containers) TO THE PLACE YOU OBTAINED THEM FOR A FULL REFUND.
I accept the terms in the License Agreement
\bigcirc I do not accept the terms in the License Agreement
Advanced Installer
< Back Next > Cancel



vitaiograph spirotrae vizito setap	
Select Installation Folder	
This is the folder where Vitalograph Spirotrac 6.2.48 will be installed.	
To install in this folder, click "Next". To install to a different folder, enter i "Browse".	t below or click
Folder:	
C: Program Files Vitalograph Spirotrac VI	Browse
anced Installer —	

Select Next

Ready to Install			
The Setup Wizard is ready to be	gin the Vitalogr <mark>a</mark> ph S	pirotrac 6.2.48 installa	ation
Click Install to begin the installati installation settings, click Back. C	on. If you want to r Click Cancel to exit th	eview or change any ne wizard.	of your
lubered Techalley			
ivanceu Iniscaller			

Select Install





Select Finish



Select "Use Spirotrac with the network database only"





Select CONTINUE



Select CUSTOM DATABASE





Enter Server details (Server name \ SQLInstance)

Select SQL for authentication type, enter SQL account details

Attalograph	Select Database	SUPPORT EXIT
Spirotrac 6.2.48	Server:	Port:
<u>isoto</u>	Windows SQL Username: sqlaccount	Password:



Select CONNECT

	SUPPORT EXIT
Mtalograph	Select Database
Spirotrac 6.2.48	Database:
<u>e</u>	Label:
	SAVE CANCEL

Select Database from dropdown list and enter label for database

Natalograph	SUPPORT EXIT
Spirotrac 6.2.48	Database: NetworkDB
<u>isos</u>	Label: Network Database



Select Save

Bitalograph Spirotrac - Se	etup	
Site Name The name will appear on all reports.	Administrator Username Security Questions	Welcome Please take a moment to set up your instance of Spirotrac.
	Answer	
	Password	
	Confirm Password Password must contain at least 8 characters, including UPPER, lowercase and number.	

Complete Site and Administrator user details

Site Administrator Welcome
Name Username Please take a moment to set up your instance TestSite User Spirotrac.
The name will appear on all reports. Security Questions What is your oldest cousin's fi
Answer ()
Password
Confirm Password Password must contain at least 8



Select Continue



Enter user account details - Login

Spirot	rac 6.2.48			15:43:20	0 18/05/20)21 🛛	- 19	e ×
	₹¥	User Site Group User TextSite	Subject Q	+			٠	M
≏	номе	SUBJECT						
۵	SETTINGS							
١	REPORTS	No subject accepted						
0	AUDIT LOG	CALIBRATION VERIFICATION	Welcome to Spirotrac					
6	HELP	PERFORM CALIBRATION						
i	ABOUT	VERIFICATION >						
Δ	LOCK		0					
[]*	LOG OFF		SELECT SUBJECT ADD SUBJECT					
Φ	EXIT							
R.	LICENSE	NOT ACTIVATED To activate your copy of	Spirotrac and unlock all features, click on the license icon in the main menu at any time.					×