# SQL Server Setup - using SQL Server authentication

If there are users on the network, which are not Windows administrators or administrators on the SQL Server, you need to log in using SQL Server authentication, ie. with username and password.

# **!! IMPORTANT !!**

- Using SQL Server Authentication (database users) is the only username + password solution AgroSoft supports. All other solutions (Windows groups, users with different rights, etc.) will <u>not</u> be setup by AgroSoft and there will <u>not</u> be any support for those solutions.
- 2. In the following procedure the Windows server may need a restart!
- 3. This document assumes that there is an existing SQL Server 2012 (Express) installed on the server.

#### SQL Server 2012 Management Studio

If there is no **SQL Server 2012 Management Studio** on the machine where the SQL Server is installed, then download and install it. It can be downloaded from here: <u>Link</u>, or installed via the AgroSoft CD/DVD.

## **SQL Server Configuration Manager**

Open the SQL Server Configuration Manager located here: Start → All Programs → Microsoft SQL Server 2012 → Configuration Tools. Expand the SQL Server Network Configuration node, select Protocols for AGROSOFT\_SQLEXPR (or the entity you want to connect to from WinXXX.Net) and double-click TCP / IP on the right side.



In the window that pops up, make sure that **Enabled** is set to **Yes**.

Egens	kaber for TCP/IP	8	×
Proto	ocol IP Addresses		
	General		
	Enabled	Yes	•
	Keep Alive	30000	
	Listen All	Yes	
			_
Ena	abled		
Ena	able or disable TCP/IP protocol for	this server instance	
L			
	OK Annu	ller Anvend Hjæl	p

Press OK and close the SQL Server Configuration Manager.

## Setup SQL Server Authentication (database users)

Open **SQL Server 2012 Management Studio** and right click on the **AGROSOFT\_SQLEXPR** instance (or the instance you want to connect to from WinXXX.Net) and select **Properties**.



Select **Security** on the left side, and then select **SQL Server and Windows Authentication mode** under **Server authentication** on the right side. Press **OK**.

Server Properties - VIRGIN\A	GROSOFT_SQLEXPR
Select a page	Script 🔻 📑 Help
Memory Processors Security Connections Database Settings Advanced Permissions	Server authentication          Windows 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: VIRGIN\AGROSOFT_SQLEXPR	Options
Connection: Virgin\Maitin 聖 <u>View connection properties</u>	<ul> <li>Enable C2 audit tracing</li> <li>Cross database ownership chaining</li> </ul>
Progress	
Ready	
	OK Cancel

Navigate to **Logins**, as shown in the picture. Right-click **Logins** and click on **New Login...** 



Select **General** on the left side. Enter *AgroSoft* as **Login name** and select **SQL Server authentication**. Set **Password** and **Confirm password** to *12345* and uncheck the **Enforce password policy**.

📙 Login - New				
Select a page	🔄 Script 🔻 🛐 Help			
General Server Roles				
User Mapping	Login name:	AgroSoft		Search
Securables	Windows authentication			
	SQL Server authentication			
	Password:	••••		
	Confirm password:	•••••		
	Specify old password			
	Old password:			
	Enforce password policy			
	Enforce password expira	tion		
	User must change passv	vord at next login		
	Mapped to certificate			<b>–</b>
	Mapped to asymmetric key			<b>–</b>
Connection	Map to Credential			▼ Add
Server: VIRGIN\AGROSOFT_SQLEXPR	Mapped Credentials	Credential	Provider	
Connection: Virgin\Martin				
View connection properties				
Progress				Remove
Ready	Default database:	master		•
A <sup>42</sup> A	Default language:	<default></default>		•
	1		ОК	Cancel

Select **Server Roles** on the left side. Put a mark in **dbcreator**. Then press the **OK** button.

🗄 Login - New		- • •
Select a page	Script 🔻 📑 Help	
Server Roles	Server role is used to grant server-wide security privileges to a user.	
ET Status	Server roles:	
	🔲 bulkadmin	
	V public	
	securityadmin	
	setupadmin	
	sysadmin	
Connection		
Server: VIRGIN\AGROSOFT_SQLEXPR		
Connection: Virgin\Martin		
View connection properties		
Progress		
Ready		
	ОК	Cancel

If an administrator started an AgroSoft program (WinOpti.Net, WinPig.Net or WinVet.Net) before creating the AgroSoft user, default AgroSoft databases will already exist, but the Owner of those databases will be the administrator Windows user and not the AgroSoft database user.

The following database ownership change must be applied to all AgroSoft databases (AgroSoftText, AgroSoftWinOpti, AgroSoftWinPig, AgroSoftWinVet etc.). The example below uses the AgroSoftText database.

Navigate to the default database **AgroSoftText**, as shown in the picture. Right-click the database and click on **Properties**...



Select **Files** on the left side. Press the `...' button in order to find a new owner.

🧻 Database Properties - AgroSo	ftText				
Select a page	🔄 Script 💌 📑	Help			
Files Filegroups Options Change Tracking	Database name: Owner:		Agro Soft Te Agro Soft	Agro Soft Text Agro Soft	
Permissions Extended Properties	✓ Use full-text in Database files:	dexing			
	Logical Name	File Type	Filearoup	Initial Size (MB)	Autogrowth / Maxsize
	AgroSoftText	Rows	PRIMARY	9	By 1 MB. Unlimited
	Agro Soft Tex	Log	Not Applicable	33	By 10 percent, Limited to 209
Connection					
Server: VIRGIN\AGROSOFT_SQLEXPR					
Connection: Virgin\Martin					
View connection properties					
Progress					
Ready	•			Add	Remove
					OK Cancel

Press the **Browse...** button.

Å Select Database Owner	×
Select these object types:	
Logins	Object Types
Enter the object names to select ( <u>examples</u> ):	
	Check Names
	Browse
ОК	Cancel Help

Put a mark in the **AgroSoft** user. Then press the **OK** buttons 3 times.

Å Browse for Objects 🧮				
10 objects	were found matching the types you selected.			
Matching of	objects:			
	Name	Туре		
🔲 🖻 🚴	[##MS_PolicyEventProcessingLogin##]	Lo		
🔲 🖻 🚴	[##MS_PolicyTsqlExecutionLogin##]	Lo	=	
🔽 🚴	[Agro Soft]	Lo		
	[BUILTIN\Brugere]	Lo		
🗖 🖻 🚴	[NT AUTHORITY\SYSTEM]	Lo		
	[NT Service\MSSQL\$AGROSOFT_SQLEXPR]	Lo		
		L.	<b>T</b>	
	OK Cancel	Help		

#### Repeat this ownership change for all other AgroSoft databases!

When all AgroSoft databases has had their ownership set, you can close the **Microsoft SQL Server Management Studio**.

**NOTICE:** The SQL Server must be restarted for all the changes to take effect. Open the **SQL Server Configuration Manager** located here: **Start**  $\rightarrow$  **All Programs**  $\rightarrow$  **Microsoft SQL Server 2012**  $\rightarrow$  **Configuration Tools**.

Right-click on the SQL Server (AGROSOFT\_SQLEXPR) and click on Restart.



## **Setup Windows Authentication (Windows users)**

Open **SQL Server 2012 Management Studio**, navigate to **Logins**, as shown in the picture. Right-click **Logins** and click on **New Login...** 



Select **General** on the left side and press the **Search...** button to the upper right.

📙 Login - New				- • •
Select a page	🛒 Script 🔻 📑 Help			
General Server Roles User Mapping Securables	Login name:	[		Search
🚰 Status	Windows authentication			
	SQL Server authentication			_
	Password:			
	Confirm password:			
	Specify old password			
	Old password:			
	Enforce password policy			
	Enforce password expirat	tion		
	User must change passw	vord at next login		
	Mapped to certificate			<b>-</b>
	Mapped to asymmetric key			<b>-</b>
Connection	Map to Credential			▼ Add
Server: VIRGIN\AGROSOFT_SQLEXPR	Mapped Credentials	Credential	Provider	
Connection: Virgin\Martin				
View connection properties				
Progress				Remove
Ready	Default database:	master		•
<sup>−</sup> 4 β <sup>−</sup>	Default language:	<default></default>		•
	·		ОК	Cancel

Press the **Advanced...** button to the bottom left.

Select Us	er or Group ×
Select this object type:	
User or Built-in security principal	Object Types
From this location:	
W8164	Locations
Enter the object name to select ( <u>examples</u> ):	Check Names
Advanced	OK Cancel

Make sure that the window is in the right domain by checking the **From this location** field. If not press the **Locations...** button and choose the right domain.

Press the **Find Now** button and select the Windows user you wish to give database rights in the **Search results** below. Press **OK** until you return to the **Login – New** window.

		Select User or Group
Select this object	t type:	
User or Built-in s	ecurity principal	Object Types
From this locatior	1:	
W8164		Locations
Common Querie	es	
Name:	Starts with $\ \lor$	Columns
Description:	Starts with $\lor$	Find Now
Disabled a	accounts .	Stop
Non expiri	ng password	
Days since la	st logon:	× 🖗
Search results:		OK Cancel
ame	In Folder	
CREATOR G. CREATOR O. DIALUP		
Guest HomeGroupU	W8164 W8164 E	
John Doe	W8164	
Local account	t	

Choose **User Mapping** on the left. For each database the user needs access to, put a checkmark next to the database and then a checkmark in db\_owner as shown below.

# All users running AgroSoft programs needs db\_owner rights on the AgroSoftText database!

🗄 Login - New					• <b>X</b>
Select a page	Script 👻 💽 Help				
Server Roles	Users mapped to this login:				
	Map	Database	User	Default Schema	
Image: Status	<b>V</b>	Agro Soft Text	VIRGIN\John Doe		
		master			
		model			
		msdb			
		tempdb			
		WP_AgroSoftWinPig	VIRGIN\John Doe		
	Gues Database	account enabled for: WP_	Agro Soft Win Pig Agro Soft Win Pig		
Connection	🔲 db a	ccessadmin			
Server: VIRGIN\AGROSOFT_SQLEXPR	dbd	ackupoperator atareader			
Connection:	db_d	atawriter			
Virgin\Martin	db_d	diadmin envdatareader			
View connection properties	db_d	enydatawriter			
	<mark>√ db_</mark> o	wner			
Progress	db_s	ecurityadmin			
Ready	V public	2			
				ОК Са	ncel

#### WinOpti.Net, WinPig.Net & WinVet.Net

#### Without administrator rights

When you start the program up for the first time, and you do not have administrator rights on the network, then the following window will appear:

Database connection:	
Database setup Server name V Enter yourself	
LOCAL	HOST\AGROSOFT_SQLEXPR
Database login	
	✓ Use database login
Database user name :	AgroSoft
Database password :	######
Sta	art SQL server Test connection
	OK Cancel

Select or enter the current server + instance name under **Server name**. Under **Database login**, set a mark in **Use database login** and fill in the fields with username *AgroSoft* and password *12345*. If you have chosen a different username and / or password, they must be filled in instead.

Press the **Test Connection** button to see if the connection to the database server is working. If it tests okay, press the **OK** button.

#### With administrator rights

When you start the program for the first time and you have network administrator rights, you must modify the program's settings, so that other users also can open the program. A network administrator can log on to a database server without using the username and password!

Open the program and choose **General** → **Administration** → **Settings**.

Pig settings		•
Email		
Mail type	0 AGROMAIL	H
Smtp server		н
Mail identity		=
Mail password		н
SQL server		н
Server	LOCALHOST\AGROSOFT_SQLEXPR	
Schema	dbo	
UseDB login		
Username	AgroSoft	
Password	12345	
Startup picture		
Authentication type	0 Domain	
Allow auto user creation		
Auto user creation type	3 ADMIN	
Install path		-
	OK Cancel	

Put a mark in **UseDB login**.

**Username** and **Password** are default set to *AgroSoft* and *12345* respectively. If you have chosen a different username and / or password, then they must be entered instead.

Press **Ok** and restart the program.