DSI FinePointe™

# Software v2.9.x Installation Guide





### OVERVIEW

This guide covers the installation and configuration of the FinePointe software application.



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#### OVERVIEW

This guide covers the installation and configuration of the FinePointe software application. FinePointe v2.8.x is compatible with Microsoft Windows 7 (64 bit) and Windows 10 (64 bit).

In order to successfully install FinePointe, the following actions must be performed:

- 1. Install FinePointe Software
- 2. Configure Microsoft SQL Server
- 3. Configure FinePointe Server
- 4. Connect the FinePointe license dongle (Sentinel HASP HL dongle) to the Controller server PC
- 5. Install FinePointe license file
- 6. Note: For upgrades to systems with existing datasets Upgrade All Studies

Note: If upgrading from FinePointe version 2.3 or earlier version please first: Uninstall the previous version of the application prior to proceeding with the new install.

#### PLANNING YOUR INSTALLATION

**Important Note:** Upgrading will affect custom modifications made to Profile XML files saved within the Profiles folder (example: Algorithim.XML file that has been modified to support custom analysis requirements for unique applications). Any changes made to the Profile XML files were likely done with the assistance of the Technical Support staff.

The FinePointe Setup wizard will make a backup copy of all Profile XML files and save them to a Backup folder within the Profile folder, before overwriting the existing XML files. Therefore, if any Profile XML files have had customizations, those customizations will be retained and will be available in the Backup folder.

If you have reason to believe you have had customizations made to any Profile XLM files it is recommended that you contact Technical Support to get assistance determining if your customization(s) need to be added to the new V2.9.0 Profile XML files. In many cases previous customizations made to Profile XML files to support unique applications have been integrated into the new V2.9.0 Profile XML files.

The FinePointe installation program includes 4 installation options.

- Client and Server Installation, with SQL Server (Installation of SQL Server can take several minutes)
- Client and Server Installation (*Recommend for users upgrading from a previous version for FinePointe*)
- Client Only Installation
- Isolated Station Installation

New FinePointe users should select the first (default) option, *Client and Server Installation, with SQL Server*, when installing software on the primary computer used for the system. This option includes FinePointe Station (data acquisition), Review (data management and reporting), and Controller (SQL database for report processing, data storage, system security, and licensing). Please note; if using Windows 10, Microsoft .NET Framework v3.5 must be installed to support SQL Server 2014 SP2 Standard Edition that comes with FinePointe 2.9.x (refer to **Appendix 1**).

The *Client and Server Installation* option is necessary when connecting to a preexisting SQL database located either on the primary computer being used for data acquisition or on the network via remote connection. This option is recommended when setting up a FinePointe Member Server. Member Servers enable you to connect additional data acquisition Stations to your Controller. <u>DSI also recommends that users upgrading from prior versions of</u> <u>FinePointe use the *Client and Server Installation* when installing the latest version on the controller server. This will permit FinePointe v2.9.x to be configured using the SQL database installed with the previous version of the <u>software, SQL Server 2012 Express</u>. FinePointe v2.9.x comes with SQL Server 2014 SP2 Standard Edition, which removes the data storage limitation imposed by the Express editions. Using the Client and Server Installation option will also permit you to update the previous version of SQL Server to the 2014 Standard Edition and migrate your data to the new database once the installation is complete. Refer to **Appendix 2** to learn how to upgrade SQL Server.</u>

The *Client Only Installation* is intended for users licensed to connect to the FinePointe Controller (SQL database) for review of data from a remote computer (e.g. office computer). Data acquisition is not intended to be performed on computers with this option installed. The remote computer must be connected to the same network as the FinePointe Controller.

The *Isolated Station Installation* is used to allow licensed users to acquire data when the data acquisition computer cannot be connected to the network. In this case, acquired data must be manually transferred (e.g. via flash drive) to a FinePointe Server from a Client on the network and logged into the FinePointe Controller.

#### FINEPOINTE INSTALLATION

This section covers the installation procedure for a standalone FinePointe system for data acquisition and analysis.

- 1. Turn on your PC and log in as an administrator.
- 2. Find the FinePointe installation software, generally provided on a DSI flash drive. For the purposes of this description, the flash drive is mapped to drive F: when plugged into your PC. Your system may map it to a different drive, and if it does, replace the F: with that drive letter.
- 3. Double-click on the file named FinePointeSetup.exe.
- 4. The *FinePointe Setup Wizard* will appear. Click **Next**.

🔂 Setup - FinePointe	– 🗆 X
	Welcome to the FinePointe Setup Wizard
	This will install FinePointe version 2.8.0 on your computer.
	It is recommended that you close all other applications before continuing.
	Click Next to continue, or Cancel to exit Setup.
	Next > Cancel

5. The *Select Installation Folder* screen will appear. Accept the defaults and click **Next**.

3 Setup - FinePointe	
Select Destination Location Where should FinePointe be installed?	
Setup will install FinePointe into the following folder. To continue, click Next. If you would like to select a different folder,	rick Browse
C:Program Files/DSI/FinePointe	Browse
At least 269.1 MB of free disk space is required.	
< Back Next	Cancel

6. The Select Components screen will appear.

For a <u>New Installation</u> of a stand-alone system, select **Client and Server Installation, with SQL Server**. Note: If <u>upgrading</u> an existing FinePointe system, select **Client and Server Installation**.

#### Click Next.

📴 Setup - FinePointe
Select Components Which components should be installed?
Select the components you want to install; clear the components you do not want to install. Click Next when you are ready to continue.
Client and Server Installation, with SQL Server
< <u>B</u> ack <u>N</u> ext > Cancel

Note: Above screen is an example from a full new installation including SQL Server

7. The *Select Start Menu Folder* screen will appear. By default, FinePointe software appears within the **Start Menu** within a **FinePointe** folder. Click **Next**.

13 Setup - FinePointe	
Select Start Menu Folder Where should Setup place the program's shortcuts?	
Setup will create the program's shortcuts in the following Start Me	nu folder.
To continue, click Next. If you would like to select a different folder, click Br	rowse.
FinePointe	Browse
< <u>B</u> ack Next >	Cancel

8. The *Select Additional Tasks* screen will appear. If desired, create a shortcut icon on the desktop to start FinePointe. Click **Next**.

📴 Setup - FinePointe
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing FinePointe, then click Next. Additional icons: Create a desktop icon
< <u>B</u> ack <u>N</u> ext > Cancel

9. The Ready to Install screen will appear. Review the selected options, then click Install.



Note: Above screen is an example from a full new installation including SQL Server

10. The FinePointe installation will begin, followed by SQL Server installation if a complete new installation is being performed. *Note: Installation of SQL Server can take several minutes.* 

🔂 Setup - FinePoir	nte 📃 📃 🗙
<b>Installing</b> Please wait w	hile Setup installs FinePointe on your computer.
Extracting file C:\Program Fi	is iles \DSI \FinePointe \libiomp 5md.dll
1	링 Setup - FinePointe
	Installing Please wait while Setup installs FinePointe on your computer.
	Setup
	SQL Server will now be installed. This may take a few minutes.
	ОК
	Cancel

- 11. For the *Microsoft .NET Framework 3.5 runtime* <u>you may see</u> the following messages: (please refer to Appendix 1 for instructions how to update the Windows Update service)
  - a. Click **OK** to install the Framework.



b. Click Download and install this feature.

÷	💽 Windows Features	×
	An app on your PC needs the following Windows feature:	
	.NET Framework 3.5 (includes .NET 2.0 and 3.0)	
	Download and install this feature Windows will get the files that it needs from Windows Update and complete the installation.	
	→ Skip this installation Your apps might not work correctly without this feature.	
	Tell me more about this feature	
	Cance	:I

c. Select **Close** when the Framework is installed.



12. If **Client and Server Installation, with SQL Server** is chosen as the installation option, Microsoft SQL Server 2014 will automatically install. *Note: Installation of SQL Server can take several minutes.* 

🏀 SQL Server 2014 Setup		T.,	1 10.000		
Installation Progress					
Install Setup Files Installation Progress	Install_RsFx_Cpu64_A	ction : RegisterProduct. Registerin	g product		
			Next >	Cancel	Help

13. If prompted to install the device software from Data Sciences International, click Install.



14. The Completing the FinePointe Setup Wizard screen will appear. Click Finish.

😰 Setup - FinePointe	
	Completing the FinePointe Setup Wizard
	Setup has finished installing FinePointe on your computer. The application may be launched by selecting the installed icons.
	Click Finish to exit Setup.
	Einish

#### FinePointe License Dongle File Installation -

The following steps are required to perform the initial install or upgrade of a FinePointe license dongle using a license upgrade file. The purpose of the step is to enable a new version of FinePointe, or to add new features to an existing FinePointe system, or to install a Temporary Finepointe License. Typically the license file is supplied on the USB flash drive which also contains the FinePointe software. It will be located within the root director of the flash drive with the ".mlf" extension.

- 15. Connect the FinePointe license dongle (Sentinel HASP HL dongle) to an available USB port located in a safe location.
- 16. Copy the license file to the Windows desktop of the computer that has the FinePointe Controller program installed. The file will be located within the root director of the flash drive with the ".mlf" extension.
- 17. Launch FinePointe Control Panel and log in using the Windows Administrator account.
- 18. If this is a new installation do the "FINEPOINTE SERVER CONFIGURATION" before going to the next step.
- 19. Click the "View License Details" button. The view will take a few seconds to open while it retrieves the license information.

- 20. The attached dongle information should be displayed. This includes the HASP ID, FinePointe version, and enabled options.
- 21. In the "License Management" section on the top tool bar, click the "Install" button.



22. A Windows file browser dialog should open. Navigate to the Windows desktop and select the license file you copied there in step #1.

Open				<b></b>	
🕽 🌍 🗢 🕌 🕨 Computer	OSDisk (C:)      FinePointe Licenses	• 4 <sub>7</sub> Se	arch FinePointe Lic		
Organize 👻 New folde	t		<u>}</u> ≡ •		
📕 Downloads 🛛 🔦	Name	Date modified	Туре	Size *	
😹 Buxco	😻 CD3A.MLF	10/1/2014 12:03 PM	MLF File		Max Sites:
🎉 Buxco Docs 👘	Christina_01.MLF	1/20/2015 11:07 AM	MLF File		and the second se
🍶 Camtasia Studio	emergency test.MLF	4/30/2015 8:09 AM	MLF File		Unlimited
📕 Customer Data	🈔 fidelta 001.MLF	4/28/2015 3:23 PM	MLF File		
🎳 Customer Visits	😔 Huashan Hospital.MLF	6/17/2014 10:36 AM	MLF File		Enable GLP
👤 DSI Main 🗏	S IBR_01.MLF	1/6/2015 1:25 PM	MLF File		
🍌 DSI Manuals	Istituto_Ramazzini01.MLF	3/31/2015 8:25 AM	MLF File		
🎍 DSI - Buxco Dist	losh oct 9 2014.MLF	10/8/2014 1:57 PM	MLF File		
🌽 DSIgrafx	KN2009.MLF	7/28/2014 10:11 AM	MLF File	1	Export Formats
Expenses	😔 license999.MLF	8/22/2014 10:52 AM	MLF File		Microsoft Excel
📕 FinePointe Data	Se mike01.MLF	10/21/2014 3:19 PM	MLF File		GraphPad Prism
🔒 FinePointe Licen:	🗣 Nanshan Zhong_license.MLF	3/28/2014 12:00 PM	MLF File		SPSS
🌙 Manuals	🗣 new Im test01.MLF	8/21/2014 12:15 PM	MLF File		SAS
📕 Ponemah and PT	NW University Upgrade.MLF	1/5/2015 12:33 PM	MLF File		OpenOffice
PrimeTech	oft upgrade.MLF	9/12/2014 9:25 AM	MLF File		Microsoft Word
Sales	S rolf001.MLF	11/3/2014 2:27 PM	MLF File		
🔒 Screen Shots 🖕	· · · · · · · · · · · · · · · · · · ·	m	1.11.4.41	· · · ·	

- 23. Click the "Open" button.
- 24. The license file should install and a success message should appear.
- 25. Close the message.
- 26. In the "License Management" section on the top tool bar, select the "Re-read license" button.
- 27. After a few seconds, the displayed license information will refresh. The new options that were added by the upgrade should appear.
- 28. Verify the new version and /or features have been added.
- 29. Close the FinePointe Control Panel.

30. When first running the application, select Allow access when prompted by the Security Alert.

Prindows Security Alert					
Windows Firewall has blocked some features of this app					
Windows Firewall h	as blocked som	e features of FinePointe Review on all public and private			
	Name:	FinePointe Review			
-	Publisher:	Data Sciences International			
	Path:	C:\program files\dsi\finepointe\finepointereview.exe			
Allow FinePointe Re	eview to commu	nicate on these networks:			
Private networks, such as my home or work network					
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)					
What are the risks of allowing an app through a firewall?					
Allow access Cancel					

This completes the FinePointe software and license file installation.

#### **FINEPOINTE SERVER CONFIGURATION**

The following details the process to configure the FinePointe Server for the workstation based on the installation type chosen for the workstation.

- 1. In Windows, click Start | All Programs | FinePointe and launch the FinePointe Control Panel application.
- 2. Log in using your *Windows Administrator* account. *FinePointe Control Panel* can only be launched by Windows Administrators.



- 3. The *Change Server Type* screen will appear.
  - a. If the Client and Server Installation, with SQL Server option was selected, select Controller Server.
  - b. If Client and Server Installation was selected, select Member Server.
  - c. If Isolated Station Installation was selected, select Isolated Station.
  - d. Once the appropriate selection has been made, click **Apply Changes**.

G Member Server Home Page/Change Server Type Buxco FinePointe Control Panel	
General Actions Apply Changes	
Define the role of this server	
O Controller Server	
The central controller coordinates other servers and clients. It also manages the licensing and s	ecurity.
Member Server A satellite server which is connected to the Controller Server through the network. This server of A satellite server which is connected to the Controller Server through the network.	the best Studies RicCustom VA data and EinsDeinte Station
Controller Server of Member Server:	an nost studies, biosystem AA data, and therointe station.
select server 👻	
Isolated Station A FinePointe Station computer is not connected to the Controller Server through a network control of the Controller Server through a network control of the Control of	

4. The *Controller Home Page* screen will appear. Click the **View License Details** button.

Go Controller Home Page FinePointe Control Panel		23
General Actions Database Management		
Taols	_	
Manage Data Vew, dekets, or begin processing tasks Manage Users Create, modify, or dekete users and user roles Manage Users Create, modify, or dekete users and user roles Manage Studies and Laboratories Vew, modify, or upgrade laboratories and studies Manage Studies		
View License Details View License Details Nodify Server Settings Nodify Server Settings Nodify Security Policies Nodify Security Policies		
Satus		
Displar DSOPER-20672 Location: Database: Ready and online.		
Server tcp://dsoper-20672:35000/ SQL Server: DSOPER-20672:VFINEPOINTE		
Log		
5/14/2 5/14/2 5/14/2 5/14/2 5/14/2 5/14/2 5/14/2 5/14/2 5/14/2		
5/14/2019 8:55:42 AM: Controller database loaded successfully. 5/14/2019 8:55:42 AM: Service is now configured as a Controller Server.		
5/14/2019 B5543 AM: Server self-registered successfully.		
5/14/2019 8:55:49 AM: Successfully contacted the member server DSOPER-20672 at 'tcp://dsoper-20672:35000/.		

5. The *License Details* screen will open. Confirm the **License Type** is **Normal**. An ID number should appear in the **HASP ID** field. No warnings or errors should appear. If there are any issues, please contact your DSI representative. If the settings are valid, click the **Home** button to return to the *Controller Home* page.

FinePointe Control Panel	1 1000	
	Hasp ID:	
	F3DC-9720-32D0-A8FC	
ersion		
ents:	Max Member Servers:	Max Sites:
ited	Unlimited	Unlimited
nance Expiration:		
ý.	Single Machine Installation	Enable GLP
	Site Types	Export Formats
	Site Types  C. Vernilated  WBP Volume  NAM  Subsolution  Matabolism VBP  RC Static  Diaphragm  G. ECG  G. Transfer Impedance  Manate Rossler  Konzett Rossler  RC Statac  C. Presumstach	Export Formats Control Section GraphPad Prism SeSS SAS OpenOffice Microsoft Word

6. Click the **Modify Server Settings** button.

🚯 Controller H	ome Page FinePointe Contr	rol Panel		J. J			
General Action	s Database Management						
-	A Vienne Artes			Tools			
	Manage Data View, delete, or begin processing tasks		Manage Users Greate, modify, or delete users and user roles	Manage Stud and Laborate View, modify, or u laboratories and s	pgrade	Manage Member Servers Upgrade servers and add controllers	
	View License Details		Modify Server Settings	Modify Secu Policies	rity	Hardware Configuration Create, modify, and delete configurations	
		Z )		Status			
Display Name:	DSOPER-20672		Location:		Database	Ready and online.	
Server URI:	tcp://dsoper-20672:35000/		SQL Server: DSC	PER-20672\FINEPOINTE			
-				Log			
5/14/2019 8:55:	40 AM: FinePointe Server Starte	ed.					
	42 AM: Controller database load						
	42 AM: Service is now configure		er Server.				
	43 AM: Server self-registered su						
5/14/2019 8:55:	49 AM: Successfully contacted t	the member se	rver DSOPER-20672 at 't	cp://dsoper-20672:35000/.			

- 7. The Modify Server Settings screen will open. Configure the following items:
  - a. Select the **Enable Station Server** checkbox if data acquisition is desired from this workstation (i.e. it is not a *Client only* installation).
  - b. Enter your Company Name.
  - c. Enter your State or Province.
  - d. Enter your **Country**.
  - e. Select Use Windows Authentication
  - f. Select the SQL server from the SQL Server: dropdown menu. This should be the same SQL server name that was used when installing SQL server earlier. The default SQL Server name is "<computer name>\FINEPOINTE".

If the dropdown menu is empty, wait about 5 seconds and try again.

g. Once all items above are configured, click the **Apply Changes** button.

G Controller Home Page/Modify Server Settings For Controller Buxco FinePointe Co	ontrol Panel
General Actions Apply Changes G	
Basic Information	Controller Database and Study Server
Display Name: CHRISK-20469	SQL Server: CHRISK-20469/SQLEXPRESS
Location: Server URI: (tcp://chrisk-20469:35000) Host chrisk-20469 Port 35000 This server will not be accessible over the network	Use Windows Authentication Use SQL Server Authentication User Name: Password: Database: bmc Meridian Controller Specify Database Folder Browse_
BioSystem XA Data Import Server	Laboratory Information
Enable BioSystem XA Data Import Server	Company Name:
Data Folder:	DSI
Browse	State/Province:
Ole DB Provider:	MN C
Microsoft.Jet.OLEDB.4.0 Detect	Country:
FinePointe Station Server	USA

8. A confirmation dialog will appear asking if you would like to create a new controller database. Click **Yes**.



9. After a few seconds, the *Update Successful* message will appear. Click the **OK** to continue.



10. Next, click the **Home** button. The *Controller Home* page will appear. All options in the **Tools** section should be active.

#### FINEPOINTE CLIENT CONFIGURATION

1. Select the Windows Start menu | All Programs | FinePointe to launch the FinePointe application.



- 2. The first time FinePointe connects to a server, the server name and port number must be manual entered (TCP://servername:port#) or select the server name (PC name) from the drop down list.
- 3. Select the **Create New Account** button or enter the user credentials to log into the server.

#### **UPGRADE ALL STUDIES – FOR UPGRADES TO SYSTEMS WITH EXISTING STUDIES**

The following details the process to *Upgrade All Studies* after completing the installation process.

- 1. In Windows, click Start | All Programs | FinePointe and launch the FinePointe Control Panel application.
- 2. Log in using your *Windows Administrator* account. *FinePointe Control Panel* can only be launched by Windows Administrators.



The Controller Home Page screen will appear. Click the View License Details button.

3. The *Controller Home Page* screen will appear. Click the **Manage Studies and Laboratories** button.

G Controller H	ome Page FinePointe Control Pa	nel	- 0 - 33
General Action	is Database Management		1
-		Tools	
	Manage Data View, delete, or begin processing tasks	Manage Users Greate, modify, or delete users and user roles Manage Studies and Laboratories Vew, modify, or upgrade laboratories Vew, modify, or upgrade laboratories Vew, modify, or upgrade laboratories	
	View License Details	Modify Server Settings Mr Po Pourity Flardware Configuration Create, modify, and delete configurations	
Display Name:	DSOPER-20672	Status Database: Ready and online.	
Server URI:	tcp://dsoper-20672:35000/	SQL Server: DSOPER-20672\FINEPOINTE	
		Log	
	40 AM: FinePointe Server Started.		
	:42 AM: Controller database loaded so :42 AM: Service is now configured as		
	43 AM: Server self-registered success		
5/14/2019 8:55:	49 AM: Successfully contacted the m	ember server DSOPER-20672 at 'tcp://dsoper-20672:35000/.	

4. Click on the **Upgrade All Studies** button. Depending on the number and size of the existing Studies this process can take a few minutes. When the process is completed the system will return a "Ready to use" message under the Status column for each study.

💊 Controller Home Page/Manage Studies And Laboratories FinePointe Control Panel					
General Actions     Laboratory Management     Study Management					
Select an item from the left panel to view its members in the right panel					
Name Study Name Machine Status					
My Laboratory	Cough Guir	ea Pig	20672	Ready to use	
	NAM 2 Site	Mouse	20672	Ready to use	
	NAM Rat		20672	Ready to use	

#### APPENDIX 1 - INSTALLING .NET 3.5 ON WINDOWS 10

The install package will automatically install the .NET Framework 3.5. Note that the Windows Update Service must be turned ON prior to installation and you must have an Internet connection.

To enable the Windows Update service:

- 1. Right-click on the 📕 icon.
- 2. Right-click Computer Management
- 3. Under Services and Applications, select the Services log.
- 4. Ensure the Windows Update service is Enabled.
- 5. You may have to configure the properties and change the *Startup type* to **Automatic**.
- 6. Apply the setting and then you can manually **Start** the service.

To manually enable the .NET Framework 3.5 through Control Panel, follow the steps below. This option also requires an Internet connection.

- 1. Press the Windows key and your keyboard, type *Windows Features*, and press **<Enter>**. This brings up the **Turn Windows features on or off** dialog box. Alternately, open Control Panel, click on the Programs items, and then click on "Turn Windows features on or off" under Programs and Features.
- 2. Select the **.NET Framework 3.5 (includes .NET 2.0 and 3.0)** check box, select **OK**, and reboot your computer if prompted.

#### APPENDIX 2 - MIGRATING DATA TO SQL SERVER 2014

This section covers installing SQL Server 2014 with Tools 64 Bit.



*CAUTION: It is strongly recommended to backup the existing database prior to proceeding with this procedure as a precautionary measure.* 

- 1. Turn on your PC and log in as an administrator.
- 2. Find the SQL Server 2014 installation software, generally provided on a DSI flash drive. For the purposes of this description the flash drive is mapped to drive F: when plugged into your PC. Your system may map it to a different drive, and if it does, replace the F: with that drive letter.
- Navigate to this folder on the DSI flash drive:
   F:\SQL Server 64bit\SQLServer\_2014Standard\_x64
- 4. Double-click the file named **Setup.exe**.
- 5. The files will extract and the *SQL Server Installation Center* will appear.

Please note: the installer might prompt you to download and install Microsoft .NET 4.0 at this point. If so, run the .NET 4.0 installation wizard that appears. It will download and install .NET 4.0 before continuing with the steps listed below. If you are prompted to restart Windows, do so and then start the installation procedure from the beginning.

6. The first screen gives you a list of tasks on the left and the details on the right. Select **Installation** from the list on the left, and then click "**Upgrade from SQL Server...**"



7. The *Product Key* page will display. The key should automatically be entered in this field. Click **Next** to continue.

Upgrade to SQL Server 2014		x
Product Key Specify the edition of SQL Ser	ver 2014 to install.	
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Features Feature Rules Ready to Upgrade Upgrade Progress Complete	Validate this instance of SQL Server 2014 by entering the 25-character key from the Microsoft certificate of authenticity or product packaging. You can also specify a free edition of SQL Server, such as Evaluation or Express. Evaluation has the largest set of SQL Server features, as documented in SQL Server Books Online, and is activated with a 180-day expiration. To upgrade from one edition to another, run the Edition Upgrade Wizard. Specify a free edition: <u>Evaluation</u> <u>v</u> <u>e</u> Enter the product key: <u>P7FRV-Y6X6Y-Y8C6Q-TB4QR-DMTTK</u>	E
	< <u>B</u> ack <u>N</u> ext > Cancel	

8. The *License Terms* screen will appear. Accept the license terms. Click the **Next** button.

Upgrade to SQL Server 2014 License Terms To install SQL Server 2014	4, you must accept the Microsoft Software License Terms.
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Features Feature Rules Ready to Upgrade	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2014 STANDARD 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,
Upgrade Progress Complete	Copy Print     I accept the license terms.     Iurm on Customer Experience Improvement Program ("CEIP") and Error Reporting to help improve the     quality, reliability and performance of Microsoft SQL Server 2014.     See the Microsoft SQL Server 2014 Privacy Statement for more information.     * Microsoft SQL Server 2014 also includes a Visual Studio component that will have CEIP settings turned     off by default. If Visual Studio is installed, this component will use the CEIP settings for Visual Studio.
	< <u>B</u> ack Cancel

9. The *SQL installer* will check the *Global Rules* for installation. If any errors appear, read the messages and correct the problems as described. If a yellow warning message appears about the Windows firewall, you can ignore it for now. Contact DSI Technical Support if needed.

Upgrade to SQL Server 2014		
Global Rules Setup Global Rules identify pro corrected before Setup can cor	iblems that might occur when you install SQL Server Setup support files. Failures must be tinue.	
Product Key	Rule check in progress	
License Terms		
Global Rules		
Product Updates	Show details >>	Re-run
Install Setup Files		
Upgrade Rules		
Select Features		
Feature Rules		
Ready to Upgrade		
Upgrade Progress		
Complete		
	< <u>B</u> ack <u>N</u> ext >	Cancel

10. The next screen will scan for any recent product updates from Microsoft that are required for the installation. If updates are found, click the **Next** button to download and install them. (If no updates are required, it will indicate they have been skipped.)

roduct Key			
icense Terms			
ilobal Rules	Task	Status	
roduct Updates	Scan for product updates	Completed	
nstall Setup Files	Download Setup files	Skipped	
lpgrade Rules	Extract Setup files	Skipped	
elect Features	Install Setup files	Skipped	
ipgrade Progress iomplete			

11. The Upgrade Rules screen will run to check for any potential issues that may occur while running the Setup. Any failures will need to be addressed prior to moving forward. This should automatically progress to the next screen.

Upgrade to SQL Server 2014 Install Setup Files If an update for SQL Server Set Product Key License Terms	up is found and specified to be included, th	he update will be installed.	
Global Rules	Task	Status	1
Product Updates	Scan for product updates	Completed	
Install Setup Files	Download Setup files	Skipped	1
Upgrade Rules	Extract Setup files	Skipped	1
Select Features	Install Setup files	Skipped	1
Feature Rules Ready to Upgrade Upgrade Progress Complete			
		< <u>B</u> ack <u>N</u> ext > Cancel	

12. The *Select Instance* page will appear. Select the SQL instance to upgrade. In this case, select the previous SQL instance used for FinePointe. The default instance name used with previous FinePointe

#### version was **SQLEXPRESS**. Click **Next** to continue.

Upgrade to SQL Server 2014 Select Instance Specify the instance of SQL Se	rver to modify.				
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules		SQL Server to upgrad d features" and then cl	e. To upgrade only Ma ick next.	inagement Tools and :	shared features,
Select Instance	Instance Name	Instance ID	Features	Edition	Version
Select Features	SQLEXPRESS	MSSQL11.SQLEXPR		Express	11.1.3000.0
Feature Rules	P3PLUS	MSSQL10.P3PLUS	SQLEngine, SQLEng		10.1.2531.0
Ready to Upgrade	<shared compone<="" th=""><th></th><th>SSMS, Adv_SSMS</th><th></th><th>11.1.3000.0</th></shared>		SSMS, Adv_SSMS		11.1.3000.0
Upgrade Progress Complete					
			< <u>B</u> ack <u>N</u> ex	t > Cancel	Help

13. The *Feature Selection* screen will display. The *SQL Installer* will automatically select the features that can be upgraded. Click **Next** to continue.

Upgrade to SQL Server 2014		
Select Features It is not possible to change the	SQL Server features to be upgraded in this release.	
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Instance Select Features Instance Configuration Feature Rules Ready to Upgrade Upgrade Progress Complete	Eeatures: SQLEXPRESS Database Engine Services Shared Features Management Tools - Basic Management Tools - Complete Redistributable Features	Description:
	< <u>B</u> ack	Next >     Cancel     Help

14. The *Instance Configuration* screen will appear. Accept defaults values and click **Next**.

Upgrade to SQL Server 2014       Instance Configuration       Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.					
Product Key License Terms	Default instance				
Global Rules	Named instance:	SQLEXPRESS			
Product Updates Install Setup Files Upgrade Rules	Instance <u>I</u> D:	SQLEXPRESS			
Select Instance Select Features Instance Configuration	SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL12.SQLEXPRESS				
Feature Rules	Insta <u>l</u> led instances:				
Ready to Upgrade	Instance Name	Instance ID	Features	Edition	Version
Upgrade Progress	SQLEXPRESS P3PLUS	MSSQL11.SQLEXPR MSSQL10.P3PLUS	SQLEngine SQLEngine,SQLEn	Express Express	11.1.3000.0
Complete	<shared compone<="" th=""><th>11155 Q22011 51 200</th><th>SSMS, Adv_SSMS</th><th>Express</th><th>11.1.3000.0</th></shared>	11155 Q22011 51 200	SSMS, Adv_SSMS	Express	11.1.3000.0
< <u>Back</u> <u>N</u> ext > Cancel Help					

15. The *SQL installer* will check the *Feature Rules*. Once complete, the next page of the wizard should automatically display.

Upgrade to SQL Server 2014		
Feature Rules		
	mine if the upgrade process will be blocked. It is recommended that you run Upgrade your prior installations. See help for more information.	
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Instance Select Features Instance Configuration <b>Feature Rules</b> Ready to Upgrade Upgrade Progress Complete	Rule check in progress Show details >>	Re-run
	< <u>B</u> ack <u>N</u> ext > Cancel	Help

16. The *Ready to Upgrade* screen will display, summarizing the upgrade for final verification. Click **Upgrade** to continue.



17. The upgrade process will begin. It may take 5-10 minutes to install.

Upgrade to SQL Server 2014	
Upgrade Progress	
Product Key License Terms Global Rules Product Updates Install Setup Files Upgrade Rules Select Instance Select Features Instance Configuration Feature Rules Ready to Upgrade <b>Upgrade Progress</b> Complete	ConfigEvent_SQL_PowerShell_Engine_CNS_sql_engine_core_shared_Cpu64_Install_Validation_validation
	Next > Cancel Help

18. Once the *SQL Installer* has completed the installation process, a summary of the product updates in displayed. Click **Close**.

Upgrade to SQL Server 2014		
Complete	completed successfully with product update	
Your SQL Server 2014 upgrade	completed successionly with product update	5.
Product Key	Information about the Setup operation or	possible next steps:
Global Rules	Feature	Status
Product Updates	Management Tools - Complete	Succeeded
	Management Tools - Basic	Succeeded
Install Setup Files	Database Engine Services	Succeeded
Upgrade Rules	Setup Support Files	Succeeded
Select Instance		
Select Features		
Instance Configuration		
Feature Rules	Details:	
Ready to Upgrade	Viewing Product Documentation for	r SQL Server
Upgrade Progress	litering i reduct becamentation re	E
Complete	been installed. By default, the Help Vi SQL Server, you can use the Help Lib	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 Use Microsoft Books Online for SQL Server D=2995782).
	Summary log file has been saved to the fol <u>C\Program Files\Microsoft SQL Server\12</u> <u>20469 20160126 144950.bt</u>	llowing location: 0\Setup Bootstrap\Log\20160126_144950\Summary_chrisk-
		Close Help

#### **APPENDIX 3 – MANUAL DRIVER INSTALLATION**

This section covers the installation of the following Windows drivers:

- FinePointe hardware drivers under Windows 7
- FinePointe hardware drivers under Windows 10
- Sentinel HASP HL license dongle drivers

This operation is normally performed by the FinePointe installation, but details are included here for users who may need to troubleshoot installation issues.

#### FINEPOINTE HARDWARE DRIVERS UNDER WINDOWS 7

To install FinePointe hardware drivers under Windows 7:

- 1. Turn on your PC and log in as an administrator.
- 2. Find the FinePointe installation software, generally provided on a DSI flash drive. For the purposes of this description the flash drive is mapped to drive F: when plugged into your PC. Your system may map it to a different drive, and if it does, replace the F: with that drive letter.
- 3. Navigate to the driver folder F:\Drivers\FinePointe\FinePointe 2.5 Drivers on the DSI flash drive and double-click on Setup.BAT.
- 4. An installation wizard is launched showing the following welcome page. Click **Next**.

FinePointe Device Driver Installer				
USE	Welcome to the FinePointe Device Driver Installer!			
	This wizard will walk you through updating the drivers for your FinePointe hardware.			
15E	To continue, click Next.			
	< Back Next > Cancel			

5. Accept the license agreement by clicking the radio button associated with "*I accept this EULA*" and click **Next**.

FinePointe Devi	ce Driver Installer
End User L	icense Agreement
	To continue, accept the following license agreement. To read the entire agreement, use the scroll bar or press the Page Down key.
	SOFTWARE LICENSE AGREEMENT PLEASE READ THIS LICENSE CAREFULLY BEFORE INSTALLING THE ENCLOSED SOFTWARE. BY USING THE SOFTWARE, YOU AGREE TO THE TERMS OF THIS UCENSE. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE, PROMPTLY RETURN THIS SOFTWARE TO DSI AT THE ADDRESS SPECIFIED ON THE DOCUMENTATION. IF YOU DO SO, DSI WILL REFUND THE LICENSE FEE YOU PAID FOR THE SOFTWARE. This software license agreement (hereinafter called "Agreement") is
	I do not accept this EULA     Save As     Print
	< Back Next > Cancel

6. After a few seconds, installation will complete and the final wizard page is presented confirming successful installation of the drivers:

FinePointe Device Driver Installer				
USE	Congratulations! You are finished installing your FinePointe devices.			
	The drivers were successfully installed on this computer. You can now connect your device to this computer. If your device came with instructions, please read them first.			
JSĒ	Driver Name ✓ Buxco Research System	Status Ready to use		
	< <u>B</u> ack	Finish Cancel		

7. Click Finish.

#### FINEPOINTE HARDWARE DRIVERS UNDER WINDOWS 10

To install FinePointe hardware drivers under Windows 10:

- 1. Turn on your PC and log in as an administrator.
- 2. Move the cursor over the top or bottom right corner of the screen and extra options will be displayed on the right side of the screen.
- 3. Choose the **Settings** option (The icon looks like a gear).



4. Select the Change PC Setting" option.



## 5. Click **General** on the left side and then click **Restart now** on the right under **Advanced Startup**.

Share	If you want to recycle your PC or s
General	settings. Get started
Privacy	A due para di startura
Devices	Advanced startup
Wireless	startup settings, of restore Windov Restart now
Ease of Access	

#### 6. Click Troubleshoot.



#### 7. Select Advanced options.



8. Select Startup Settings.



9. Click the **Restart** button.



10. Windows will restart and the following screen will appear. Strike the <**7**> or the <**F7**> key to disable driver signature enforcement. Windows will finish booting.



11. Complete the driver installation by following the Windows 7 procedure in the previous section.

#### APPENDIX 4 – MANUAL MICROSOFT SQL SERVER 2014 CONFIGURATION

The 2.9.x install will automatically configure the database server roles. However, if you are manually configuring the roles, please complete the following steps for proper operation.

- Run SQL Server Management Studio by navigating through the following menus: Start | All Programs | Microsoft SQL Server 2014 | SQL Server Management Studio Right-click the program and click Run as Administrator.
- 2. In the *Server Name* field select the **FinePointe** server. This item is normally preceded by the computer name, as in "<computer name>\FINEPOINTE".
- 3. Click **Connect**.
- 4. On the left side of the window, open the folder **Security | Logins**. Next, double-click on the login **NT AUTHORITY\SYSTEM**.
- 5. The *Login Properties* dialog for "*NT AUTHORITY*\*SYSTEM*" should open. Select **Server Roles** from the "*Select a page*" section on the left.

🗄 Login Properties - NT AUTH	DRITY\SYSTEM		_ <b>D</b> _ X
Select a page	Script 🔻 🚺 Help		
Server Roles	Login name:		Search
Status	<ul> <li>Windows authentication</li> <li>SQL Server authentication</li> </ul>		
	Password: Confirm password:		
	Specify old password		
	Old password: Enforce password policy		
	<ul> <li>Enforce password expira</li> <li>User must change password</li> </ul>		
	Mapped to certificate	_	-
Connection	<ul> <li>Mapped to asymmetric key</li> <li>Map to Credential</li> </ul>		▼ Add
Server: SATURN9	Mapped Credentials	Credential Provider	
Connection: BUXCO\Rolf Almekinder			
View connection properties			
Progress			Remove
Ready	Default database:	master	•
The state of the s	Default language:	English	•
		ок	Cancel

6. A list of Server roles should appear. Make sure "**public**" and "**sysadmin**" are selected. Click the **OK** button.

🚦 Login Properties - NT AUTH	DRITY\SYSTEM	_ <b>D</b> _ X
Select a page	🖾 Script 🔻 🌃 Help	
Server Roles	Server role is used to grant server-wide security privileges to a user.	
Status	Server roles:	
	Obscalari         docreator         diskadmin         processad         securityadm         setupadmin         stysadmin	
Connection		
Server: SATURN9 Connection:		
BUXCO\Rolf Almekinder		
Progress		
Ready		
	ОК	Cancel

7. Close SQL Server Management Studio.

This completes the *Microsoft SQL Server 2014 Configuration*. Please continue to the *FinePointe Server Configuration* section.

#### **APPENDIX 5 – FIREWALL CONFIGURATION**

Firewall software installed on the FinePointe server and client computers will need to be configured to allow them to communicate with one another. This is not an issue when everything is installed on one computer. The most common firewall in use is the Windows 7 and Windows 10 firewall. This firewall is turned on by default, and it may keep turning itself on after Microsoft updates are installed. There is also a chance that network domain policy may force the client computers to turn the firewall on. Below is a list of the settings that are required on all FinePointe servers and clients.

Please check the firewall settings to ensure the following are allowed:

- FinePointeSVR.exe must be allowed. Default path: C:\Program Files\BuxcoDSI\FinePointe\FinePointeSVR.exe
- FinePointeReview.exe must be allowed. Default path: C:\Program Files\BuxcoDSI\FinePointe\FinePointeReview.exe
- FinePointeStation.exe must be allowed. Default path: C:\Program Files\BuxcoDSI\FinePointe\FinePointeStation.exe
- UDP Port 777 must be allowed
- sqlbrowser.exe must be allowed. Default path for SQL 2014: C:\Program Files (x86)\Microsoft SQL Server\90\Shared\sqlbrowser.exe
- sqlservr.exe must be allowed.
   Default path for SQL 2014: C:\Program Files\Microsoft SQL
   Server\MSSQL12.FINEPOINTE\MSSQL\Binn\Sqlservr.exe
- The specific network subnet that the FinePointe computers reside on must be allowed in the Scope setting for each of these ports. Alternately, the Scope setting can be configured to allow "any computer".