

# BreezeSuite™ Cardiorespiratory Diagnostic Software

## Version 8.6



Network (MultiUser) Client Workstation Upgrade Manual

### Contact

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# INTRODUCTION

## Purpose of this Manual

This manual provides instructions on how to upgrade your BreezeSuite™ cardiorespiratory diagnostic software to BreezeSuite v8.6.

## The Upgrade Process

Obtain all of the required resources before upgrade. These include:

- A copy of the BreezeSuite v8.6 software media
- Appropriate Windows Administrator user credentials for the client workstation computer
- Your facilities policies regarding use and configuration of SQL Server Express configuration
- Network SQL Server Name, Instance Name
- BreezeSuite Network Database Names for Patient, Audit and Query Database (query database is optional)
- Network Database Authentication Type (SQL or Windows)
- If SQL Authentication used, Network Database Authentication Credentials (Username and Password)
- If Windows Authentication is used, you must be logged into the client computer as a valid Network SQL Database Windows user
- If a custom SQL Port is used for TCP/IP connection, the port number must be known.

## Professional Installation Service

MGCD Diagnostics offers professional installation and upgrade service (service fees apply).

Professional service installation benefits include:


- Remote or onsite installation service
- Scheduled and reliable software installation for minimal downtime
- Software configuration assistance
- Report customization assistance
- Predicted set configuration assistance
- Diagnostics testing screen customization assistance
- Application security configuration guidance
- Data conversion assistance
- Device communication verification

Please contact MGC Diagnostics to discuss the installation service options available.

Phone: 800-333-4137

Email: [Support@MGCDiagnostics.com](mailto:Support@MGCDiagnostics.com)

## SYSTEM SPECIFICATION: CLIENT

Required Operating System	Windows 11 (Pro or Enterprise) Windows 10 (Pro, Enterprise or Enterprise LTSB) Windows 8.1 (Pro or Enterprise) Windows 7 (Pro, Ultimate or Enterprise) Service Pack 1  <b>Note:</b> Windows 7 support ended January 2020
Processor	Intel Core Duo or Greater
Hard Disk	80+ GB Recommended
Memory	8+ GB Recommended
Display	1024 x 768 Resolution Minimum
System Type	x64 (64-Bit) Recommended X84 (32-Bit) Supported
Other Hardware	3+ USB-A Ports (if client connecting to diagnostic device)

# SYSTEM SECURITY CONSIDERATIONS

## Data at Rest Encryption

BreezeSuite 8.6 software supports the use of commercial off the shelf (COTS) Full Disk Encryption technology including Bitlocker configured for Federal Information Processing Standards (FIPS) Publication 140-2 compliance.

## Data at Rest Prevention

BreezeSuite 8.6 software, when installed and connected to a Network SQL Database, supports installation without a local SQL Database. This new feature ensure no ePHI data at rest and removes the need to maintain SQL Server Express updates and patches. MGC Diagnostics recommends using this feature on all network clients where reliance on a local database mode is not required. This feature should be used on all networked physician review BreezeSuite installations as physician review can only be performed when connected to the network database.

## Data in Transit Encryption

BreezeSuite 8.6 software, when installed and connected to a Network SQL Database, supports use of TLS 1.2 encrypted SQL Server connections. MGC Diagnostics recommends configuring your Network SQL Server and client for TLS 1.2 encryption.

## SQL Database Connection Information Encrypted

BreezeSuite 8.6 software stores SQL database connection information in an encrypted file to prevent viewing by unauthorized users. Connection information can only be viewed by an authenticated user using the BreezeSuite DBTools application.

## SQL Database Naming

BreezeSuite 8.6 software supports customizing the name(s) of the BreezeSuite application SQL Databases. This allows for additional database security as well as allows for hosting both Test/Development and Production BreezeSuite databases within the same SQL Instance.

## Authentication in SQL Server

BreezeSuite 8.6 software supports use of Windows Authentication for BreezeSuite database SQL Logins/Users. MGC Diagnostics recommends using Windows authentication wherever possible.

BreezeSuite 8.6 software also supports the use of customized SQL Authentication usernames and passwords. MGC Diagnostics strongly recommends changing all default SQL Authentication user names and passwords to unique user names and strong customized passwords.

## Authentication in BreezeSuite v8.6


BreezeSuite 8.6 software supports use of Active Directory authentication for BreezeSuite application users. See the Security Administrators Guide for additional details and configuration information.

## Antivirus and Anti-Malware Software Policy

MGC Diagnostics has an open policy regarding customer's use of commercial off the shelf (COTS) antivirus and anti-malware software. Customers may install, update and patch anti-virus and anti-malware software without pre-approval from MGCD Diagnostics.

## Operating System Update Policy

MGC Diagnostics recommends applying Operating System updates and patches on a regular basis. MGC Diagnostics does not provide a release schedule or list of approved updates and recommends installing updates as they are made available from the computer hardware and operating system manufacturer.

 **Important:** If updates are checked, downloaded or installed during diagnostic testing, this may result in degraded system performance, software errors and data loss

# PRE INSTALLATION REQUIREMENTS

## Update the Operating System

Verify all available Windows Service Packs, Updates and Patches have been installed

## Windows Administrator Permissions Required for Installation


Domain Administrator permission required when installing BreezeSuite on a client computer registered to the Network/Domain.


Local Windows Administrator permission required when installing BreezeSuite on a client computer not connected to a network/domain.

## Computer Naming Considerations

The BreezeSuite application registers system/workstation settings to the computer name. Whenever possible, perform computer name changes prior to BreezeSuite software installation to prevent loss of system/workstation settings in the application.

If replacing a computer due to hardware failure, renaming the new computer to the same computer name as the faulty computer will preserve the system/workstation settings in the application.

 **Important:** If a computer name change is required after installation on a system with the BreezeSuite local SQL Database feature installed, contact MGC Diagnostics technical support for guidance to avoid software down time.

 **Important:** Registering two or more active workstation computers with the same computer name to a BreezeSuite Network SQL Database will cause application issues. Unique computer names must be used for all active workstations when connected to a Network SQL Database.

When changing the computer name, updates to BreezeSuite registry keys will be required. By default, the local SQL Server name is the same as the local computer name.

BreezeSuite relies on DB Tools for database management. To update this, navigate to the Database Configuration screen located within DB Tools.

1. Prior to opening DB Tools, the BreezeSuite program must be closed.
2. Right Click on DB Tools and run the application as administrator.
3. Login to DB Tools using a BreezeSuite user name and password with the appropriate permissions.
4. Select the Admin tab and then select Database Configuration.
5. Confirm that the BreezeSuite database is not in use by selecting OK.
6. Update the local Server Name to reflect the updated computer name.

## Prevent Windows Users from Changing Date, Time, and Time Zone

Recommend that Date/Time controls within Windows are implemented to ensure data integrity of the audit log.

*Note: User must have administrator privileges.*

1. Open Local Security Settings:
  - i) Press the Windows key + R together to open the Run command. Type **secpol.msc** and hit Enter to open the Local Security Policy window.
  - ii) On the left-hand side, Select **Local Policies -> User Rights Assignment**.
  - iii) On the right, double-click the "**Change the system time**" setting to modify.
2. Allow or Disallow Administrator and Users
  - i) Highlight **Administrators** in the Change the system time Properties. Do NOT remove LOCAL SERVICE.
  - ii) Click the Remove button to disallow administrators to change the Date and Time.
3. Allow a specific administrator (instead of all administrators) to have exclusive access to date/time settings
  - i) In the Properties window, click on **Add User or Group**.
  - ii) Click on the **Advanced...** button.
  - iii) Click on the **Find Now** button.
  - iv) Select the name of the specific group that will be allowed to edit Date and Time.
  - v) Click **Apply** and then **OK**. Restart the computer for this policy to take effect.
4. Repeat Steps 1-3 with the exception of double-clicking on '**Change the time zone**' instead of '**Change the system time**' in step 1(iii)



# POST INSTALLATION REQUIREMENTS

## Required Windows User Rights (Permissions)

All BreezeSuite users must have their Security User Permissions set to 'Full control' for the following folders and all child objects:

- C:\Program Files (x86)\Medgraphics\Breeze
- C:\ProgramData\MedGraphics\Breeze

**Note:** The C:\ProgramData folder is normally hidden.

All BreezeSuite users must have either a minimum of Full Control basic permissions or Query Value, Set Value and Create SubKey advanced permissions to the following registry and all child objects:

- x86 Operating Systems = H-Key-Local-Machine\Software\Medical Graphics Corporation\
- x64 Operating Systems = H-Key-Local-Machine\Software\Wow64\Medical Graphics Corporation\

## Special Windows User Permissions required on Ultima Carido2 systems running Mortara XScribe software:

All BreezeSuite users must have their Security User Permissions set to 'Full control' for the following folders and all child objects:

- C:\Program Files (x86)\Mortara
- C:\Mortara Instrument Inc
- C:\ProgramData\MedGraphics\XScribe\
- C:\ECG Data

All BreezeSuite users must have their Security User Permissions set to 'Full control' for the following folders and all child objects:

- C:\ProgramData\ExamMgrData

## Special Antivirus and anti-malware requirements on Ultima Cardio2 systems running Mortara XScribe software:

BreezeSuite and Mortara XScribe software communicate and store data in real-time during testing. The files exchanged in the following directories and/or files must be excluded from active scanning or software failure and data loss may occur.

- C:\ECG Data
  - File Names:
    - CFD.xml
    - CFDL.xml
    - CFV.xml
    - LinkEcg.xs2
    - LogFile.txt
    - ModalityPermissionsTable.xml
    - RawEcg.xs2

- Report\_Cardiopulmonary.xml
  - ST.cfg
  - Step.xs2
  - StressExamSettings.xml
  - StressExamSummary.xml
  - XSPrintOps.txt
- C:\ProgramData\MedGraphics\XScribe\Command  
File Names:
  - BreezeLog.txt
  - Mort.txt
  - ToBreeze.cmd
- C:\ProgramData\MedGraphics\XScribe\Current  
File Names:
  - CFD.xml
  - CFSL.xml
  - CFV.xml
  - LinkEcg.xs2
  - RawEcg.xs2
  - ModalityPermissionsTable.xml
  - Report\_Cardiopulmonary.xml

**File Compression must not be enabled on the following folder:**

- C:\Program Files (x86)\Microsoft SQL Server\MSSQL12.MGCSQLSERVER\MSSQL

**Verify and delete (if necessary) the MedGraphics Virtual Store directory.**

*Delete the Medical Graphics VirtualStore program folder*

1. Click on File Explorer, then select the View tab; checkmark the box by **Hidden Items**.
2. Click on the "**This PC**" shortcut, then double click on the following:
  - a. C:\Users\ValuedCustomer\AppData\Local\VirtualStore\ProgramFiles (x86)
3. Delete the MedGraphics folder..

*Delete the Medical Graphics VirtualStore registry entry.*

1. In the Windows desktop search box, type **regedit**.
2. Browse to HKEY USERS\... 'registry string'...\_Classes\VirtualStore\Machine\Software\WOW6432Node\Medical Graphics Corporation.  
**Note:** Only one of the \_Classes registry strings will have the VirtualStore folder.
3. Right Click on the Medical Graphics Corporation folder and click delete.
4. Close the registry editor window.

**Disable Virtual Stores:**

1. Open the Windows Control Panel.
2. Select Administrative Tools.
3. Select Local Security Policy.
4. Open Local Policies.
5. Open Security Options.
6. Scroll down and double click on User Account Control: Virtualize file and registry write failure to per-user locations.
7. Select 'Disabled' and click OK.

## Printer Setup:

For the PDF reports to work properly, the properties of PDF reports need to be updated to Adobe Acrobat Reader from Edge (Microsoft's browser within Windows 10). Edge does not have a File Explorer properties 'Print', so BreezeSuite cannot start a PDF print without this.

1. From the Windows start menu, type "Default Programs."
2. Select "Choose default apps by file type."
3. Scroll down to ".pdf" Adobe Acrobat Document.
4. Click "Choose a default."
5. Select Adobe Reader

In addition, take the checkmark out to let windows control the default printer; by default, it is checked and defaults to the Medgraphics PDF printer, which is suitable for exporting purposes only.

1. From the Windows start menu, type "Printers & Scanner."
2. Scroll down past printer options and uncheck "Let Windows manage my default printer."
3. Pick the appropriate printer for your organization.

# BREEZESUITE V8.6 NETWORK CLIENT UPGRADE

**Important:** Network SQL Server Database must be upgraded prior to performing Network Client Upgrade

**Important:** Upgrade to BreezeSuite v8.6 requires Windows Administrator permission.

**Important:** Ensure your Windows Operating System is up-to-date with the latest updates and restart the computer to ensure there are no pending reboots.

**Important:** Installation of BreezeSuite requires SQL Server Express 2014 SP3. The instructions below provide details on how to upgrade your current SQL Server Express to SQL Server Express 2014 SP3.

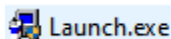
**Important:** If Windows authentication is used for Network SQL database connectivity, the Windows user logged into the computer during upgrade must also be a valid Network SQL Database user or member of a valid SQL Database users group.

## Upgrade Procedure:

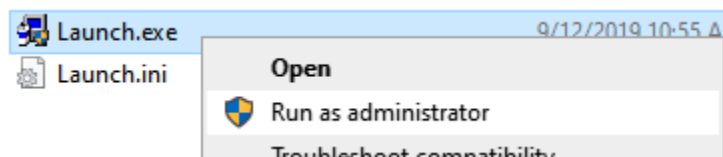
**Note:** BreezeSuite v8.6 supports network client installation without use of a local database. To upgrade to BreezeSuite v8.6 and use this new feature, skip to section 2 “Upgrade BreezeSuite client software to BreezeSuite v8.6”.

### 1. Upgrade SQL Server Express instance to SQL Server Express 2014 SP3

- 1.1. Browse to the “Launch.exe” file located on your installation media (USB flash drive, etc.).



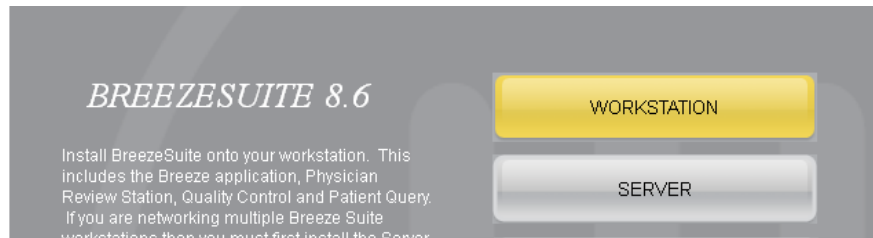
- 1.2. Right Click on the “Launch.exe” file and select ‘Run as Administrator’



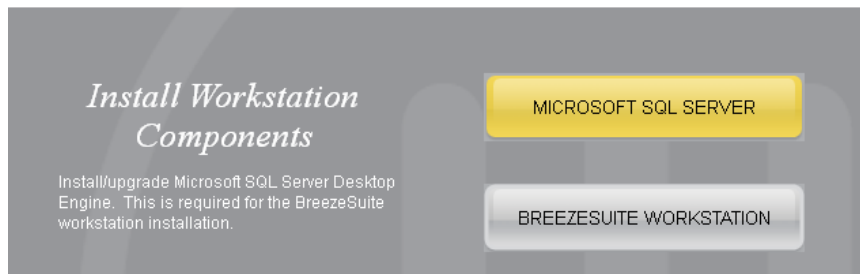
- 1.3. Select ‘INSTALL SOFTWARE’



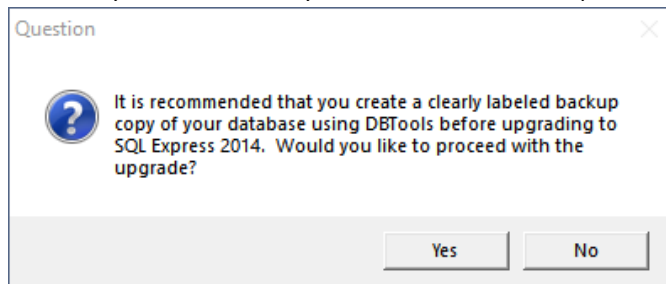
- 1.4. Select ‘WORKSTATION’





- 1.5. Select 'MICROSOFT SQL SERVER' button to start SQL Server upgrade



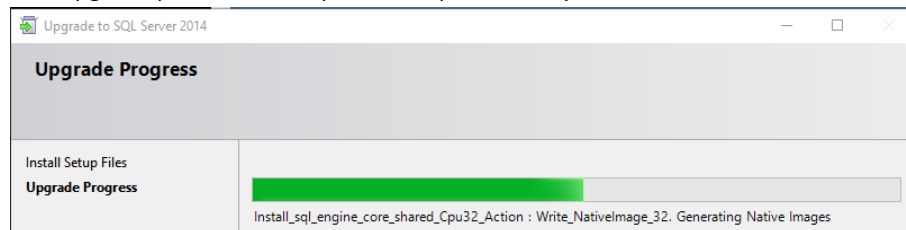
- 1.6. Select 'Yes' after you have verified you have created a backup of the BreezeSuite database



- 1.6.1. Desktop Engine Setup windows will appear and may remain open for several minutes. Please wait for the upgrade process to start.
- 1.6.2. When the SQL Server 2014 SP3 upgrade process starts, it may take several additional minutes to complete. Please wait for the upgrade process to complete.
- 1.7. If prompted, Enter the SA password for the SQL Server Express instance to be upgraded
  -  **Note:** If default password was used on previous installation, password is set to "Breeze2007"
  -  **Important:** Use of a strong password longer than 12 characters, containing upper case alpha, lower case alpha, numeric and special characters is recommended. If Default password was used on previous installations, the SA password should be changed using Microsoft SQL Server Management Studio either prior to or after upgrade is complete.

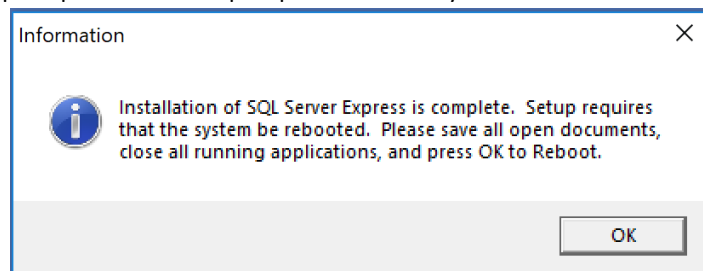


1.8. Wait for the upgrade process to complete. This process may take several minutes



1.9. Select 'OK' when prompted with "Installation of SQL Server Express is complete" message

1.9.1. If prompted with "setup requires that the system be rebooted" message. Select 'OK' and reboot.



## 2. Upgrade BreezeSuite client software to BreezeSuite v8.6

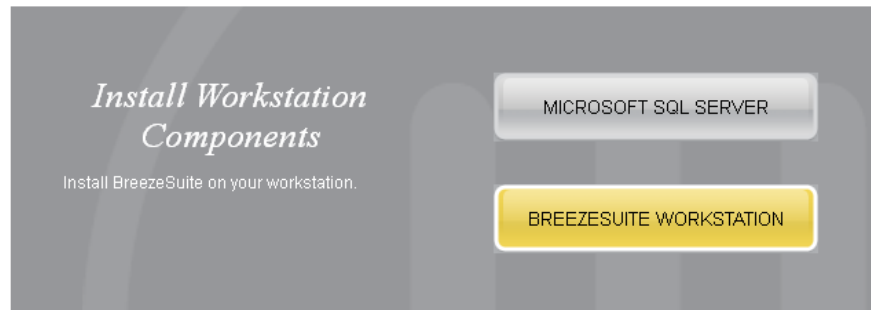
2.1. Select 'INSTALL SOFTWARE'



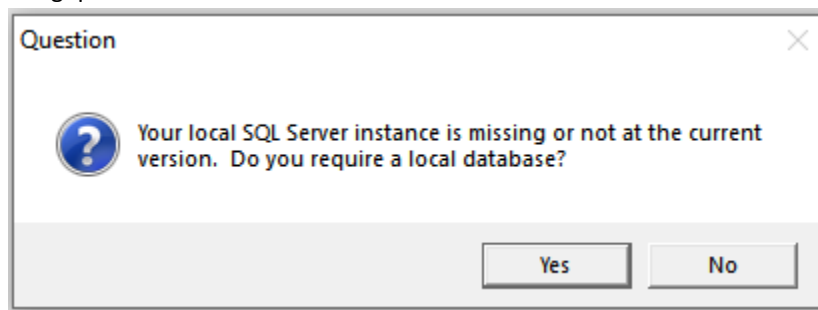
2.2. Select 'WORKSTATION'




2.3. Select 'BREEZESUITE WORKSTATION' on the Install Workstation Components screen.



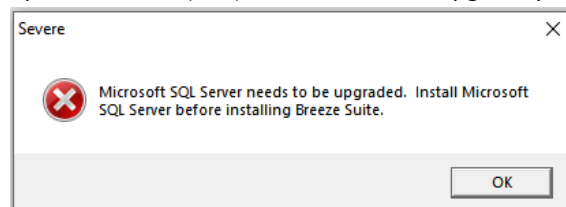
2.4. If you have not upgraded your SQL Server Express instance to SQL 2014 SP3, you will be prompted with the following question:



2.4.1. Select 'No' to proceed with the installation without a local database


 **Note:** MGC Diagnostics recommends installation without a local database to prevent ePHI data at rest.

2.4.2. If you require a local database, Select 'Yes' and you will receive the following error. Select 'OK' and follow the steps in section 1 (one) of this manual to upgrade your SQL Instance.



2.5. Select 'Next >' at the bottom of the "Welcome to the InstallShield Wizard..." screen

- 2.6. Read the License Agreement and select 'Yes' to accept the terms continue with the installation


 **Note:** A copy of the EULA is provided at the end of this document for review prior to software installation.

## 2.7. BreezeSuite 8.6 License Screen

- 2.7.1. If upgrading from version 8.0 or higher, complete the "Name" and "Company" fields with any text data and select 'Next >'

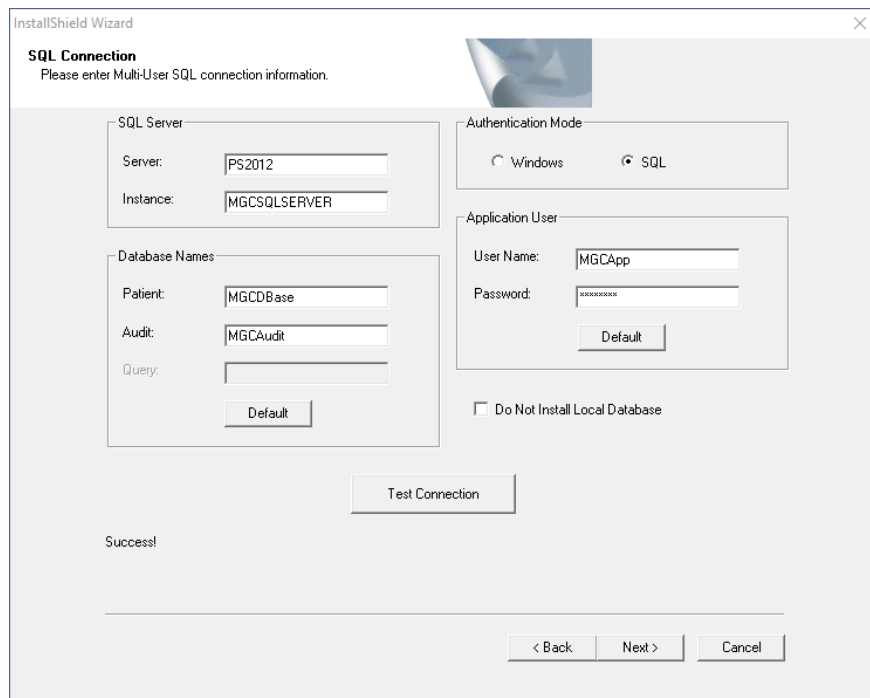
- 2.7.1.1. If upgrading from version 7.2 SP7, contact MGC Diagnostics support by calling 800-333-4137. Please have your account number, system serial number or sales order number and software registration number displayed on the licensing screen available.

- 2.7.1.1.1. Complete the Name and Company fields with any text data and enter the CD Key provided for the upgrade in the CD Key fields. Select 'Next >' to continue with the upgrade.

 **Note:** Customers outside the United States must contact their regional MGC Diagnostics sales and service provider to obtain a software license (CD Key).


- 2.8. Verify the options to install and Select 'Next >' on the "Select Components" screen


- 2.9. Review the "SQL Connection" information. The SQL Server Name, Instance and Database Names will auto populate with the information used with the current BreezeSuite installation.






2.9.1. If your SQL Network Database configuration changed from the default, enter the new connection information.

 **Note:** BreezeSuite v8.6 software supports use of Windows Authentication for SQL Users/Logins. Windows Authentication is recommended wherever possible.

 **Note:** BreezeSuite v8.6 software supports use of custom Database Names, SQL User Login and customized strong SQL User passwords.

 **Important:** Custom User Name and strong custom password is recommended when SQL Authentication is used.

2.9.2. If your SQL Network Database configuration uses the default settings, select the “Default” button below the Application User section to enter the default application user information.

2.9.3. To install without a local SQL Database (recommended wherever possible), select the “Do Not Install Local Database” option. ☒ Do Not Install Local Database

2.9.4. Select the ‘Test Connection’ button and verify a “Success!” message is received and select ‘Next>’

2.9.4.1. Possible Error States when performing connection test

**Error State: “Patient Database is incorrect version...”**

- Cause: Network SQL Database has not been upgraded

**Error State: “Login Failed for user ‘xxxx’ “**

- Potential Cause: Windows User performing installation is not a valid Network SQL Database User (applies to Windows Authentication Mode only)
- Potential Cause: SQL User is not a valid User Name or Password on the Network SQL Database (applies to SQL Authentication Mode only)
- Potential Cause: SQL User does not have DBReader and DBWriter or higher permission to the SQL Database (applies to SQL Authentication Mode only)

**Error State: “Cannot open database ‘xxxxxx’ requested by the login. The login failed.”**

- Potential Cause: Network SQL Database has not been installed
- Potential Cause: Database name entered is incorrect.
- Potential Cause: Windows Authenticated user performing the installation is not a valid SQL database user (applies to SQL Authentication Mode only)

**Error State: “Named Pipes Provider: Could not open a connection to SQL Server”**

- Potential Cause: Verify Server Name is correct

**Error State: “SQL Server Network Interfaces: Error Locating Server/Instance Specified...”**

- Potential Cause: Verify Server Instance Name is correct
- Potential Cause: Network Connection to SQL Server is not established
- Potential Cause: SQL Server Firewall is blocking external connections or ports

2.10. Review the upgrade settings within the Start Copying Files screen and select ‘Next >’

2.11. Wait for “InstallShield Wizard Complete” screen and select ‘Finish’

2.12. Select ‘Finish’ on the InstallShield Wizard Complete screen.

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