

# BreezeSuite™ Cardiorespiratory Diagnostic Software

Version 8.6

Network (MultiUser) SQL Server Database 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 Network SQL Database to version 8.6.

## The Upgrade Process

Obtain all of the required resources before upgrading. These include: BreezeSuite software installation file(s), network and local SQL Server configuration information, etc.

1. Follow these instructions carefully and completely to ensure a successful upgrade.

## Professional Installation Service

MGCD Diagnostics offers professional installation 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)

## NETWORK SQL DATABASE SERVER SPECIFICATION

Required Operating System	Windows Server 2012 or 2012 R2 Windows Server 2016 Windows Server 2019
Required SQL Versions Supported	SQL Server 2012 (Standard, Enterprise) SQL Server 2014 (Standard, Enterprise) SQL Server 2016 (Standard, Enterprise) SQL Server 2017 (Standard, Enterprise) SQL Server 2019 (Standard, Enterprise)
Processor	2.0 Ghz or faster recommended
Hard Disk	250+ GB Recommended
Memory	16+ GB Recommended
System Type	x64 (64-Bit) Recommended
Virtual Server Support	Yes
SQL Server Cluster Support	Yes

# 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. BreezeSuite 8.6 Network SQL database supports the use of SQL Transparent Data Encryption (TDE).

## **Data in Transit Encryption**

BreezeSuite 8.6 software supports the use of TLS 1.2 encrypted SQL Server connections. MGC Diagnostics recommends configuring your Network SQL Server and client for TLS 1.2 encryption with SQLNCL11 version 11.3+.

## **SQL Database Connection Information Encrypted**

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

## **Anti-Virus 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 and SQL Server Update Policy**

MGC Diagnostics recommends applying Operating System and SQL Server 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 operating system and software manufacturer.

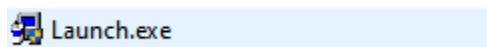
# BREEZESUITE NETWORK DATABASE UPGRADE

- Important:** Before proceeding with the database upgrade, the following prerequisites must be complete:
- ✓ The current BreezeSuite database version must be v7.2 or later.
  - ✓ The server meets the minimum Network Database Server Specifications
  - ✓ All BreezeSuite clients connected to the BreezeSuite Network database are closed or switched to local database mode.
  - ✓ You must perform a backup of the BreezeSuite SQL database(s).
  - ✓ You must know the Server Name where SQL Server is installed
  - ✓ You must know the SQL Server Instance Name or whether the Default instance is in use
  - ✓ If using SQL Authentication, you must know the SQL Server Login Name and password with “DBOwner permissions to the BreezeSuite database(s)
  - ✓ If using Windows Authentication, you must be logged into the server with a Windows user who has been granted DBOwner permissions to the BreezeSuite database(s)
  - ✓ You must have access to the BreezeSuite installation media

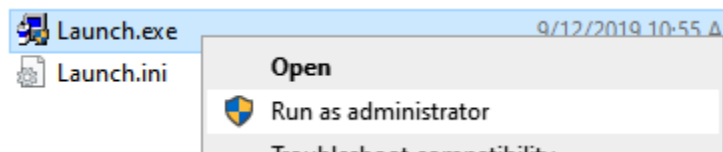
**Note:** Upgrading the BreezeSuite SQL Database requires running the upgrade application on the SQL Server. If your policies and procedures do not allow running upgrade applications on the SQL Server, then you must temporarily move the database(s) to another SQL Server for upgrade purposes. Then once upgraded, move the database back to the production server.

## 1. Upgrade BreezeSuite Network SQL Server Database to v8.6

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



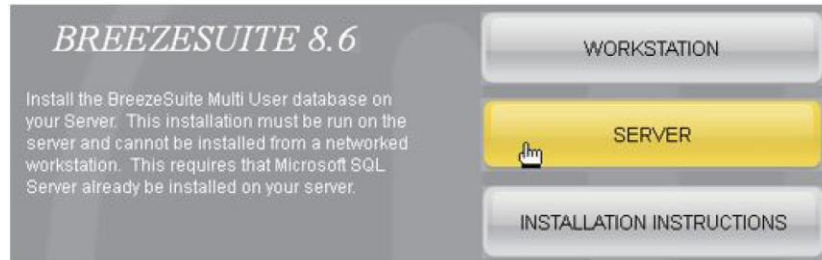
- 1.2. Right Click on the “Launch.exe” file and select ‘Run as Administrator’



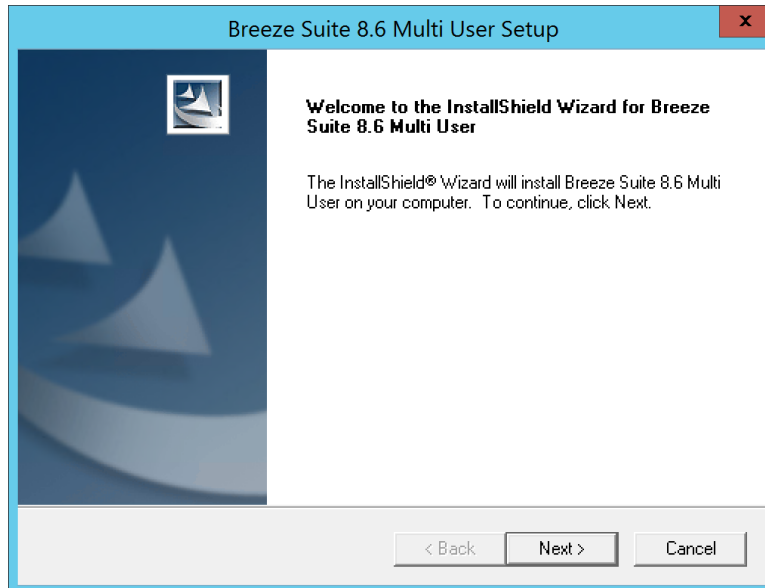
- 1.3. Select ‘INSTALL SOFTWARE’



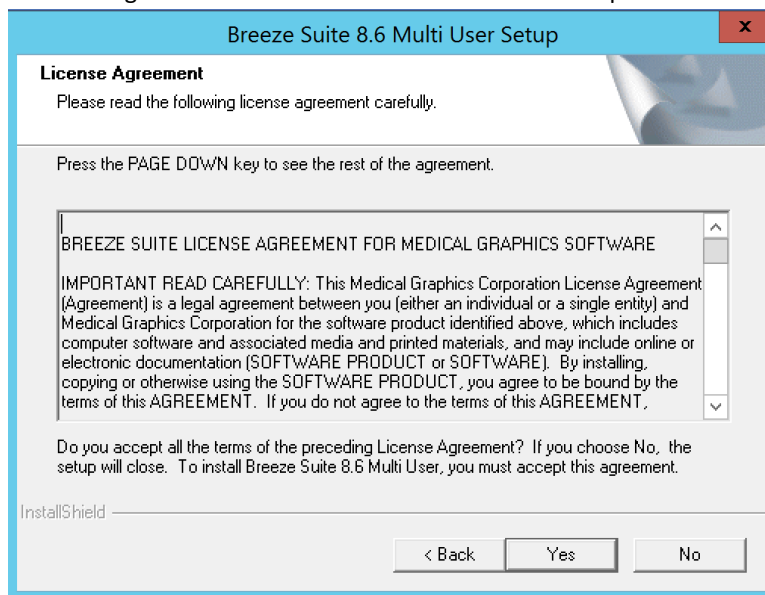
- 1.4. Select ‘SERVER’



- 1.5. Select the 'Next >' button in the "Welcome to the InstallShield Wizard for BreezeSuite 8.6..." screen



- 1.6. Read the License Agreement and select the 'Yes' button to accept the terms and continue

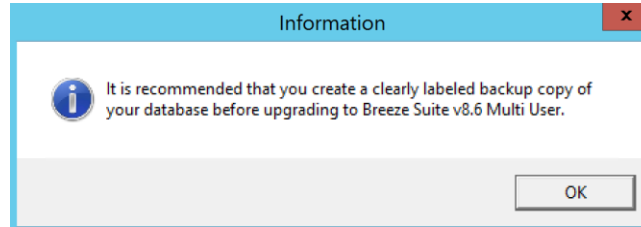


- 1.7. Enter the SQL Server connection information

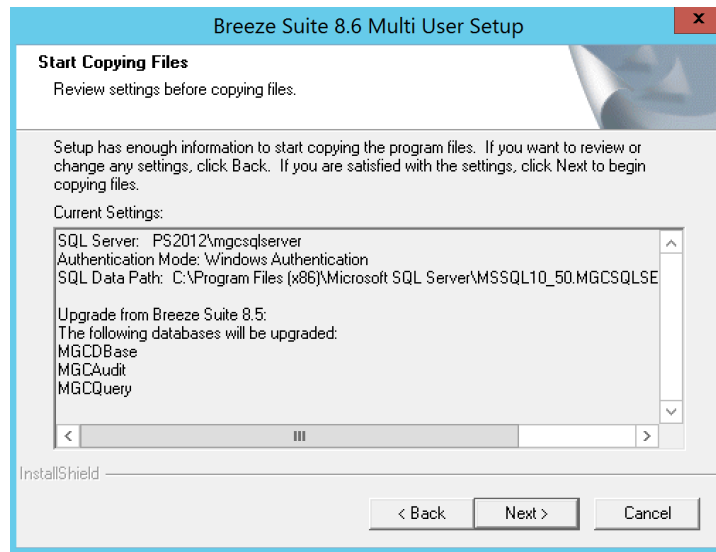
- 1.7.1. Enter the Server Name and Instance where the database to upgrade are located
  - 1.7.1.1. If a Default instance is used, leave the Instance field blank
- 1.7.2. Enter the Database Names and select if the Query Database requires upgrade
  - 1.7.2.1. The default database names will automatically populate
  - 1.7.2.2. The Query database is only used if the Patient Query option was installed/purchased
- 1.7.3. Browse to the SQL Data Path
  - 1.7.3.1. This is the location of the MGCDbase and other application databases that require upgrade
- 1.7.4. Select the Authentication Mode
  - 1.7.4.1. Windows authentication is recommended where supported.
  - 1.7.4.2. If SQL Authentication is used the Application User and Admin User information must be entered
    - 1.7.4.2.1. If the default Application User will continue to be used from current BreezeSuite version to version 8.6, then select the Default button
    - 1.7.4.2.2. If a custom Application User (recommended) was configured on your current BreezeSuite SQL Database, then enter the custom User Name and Password.
    - 1.7.4.2.3. The Admin User must be any SQL User created on the SQL Instance with DBOwner permission to the MGCDbase
- 1.7.5. Select the 'Test Connection' button and verify "Success!" message is displayed
- 1.7.6. Select the 'Next>' button to proceed with upgrade



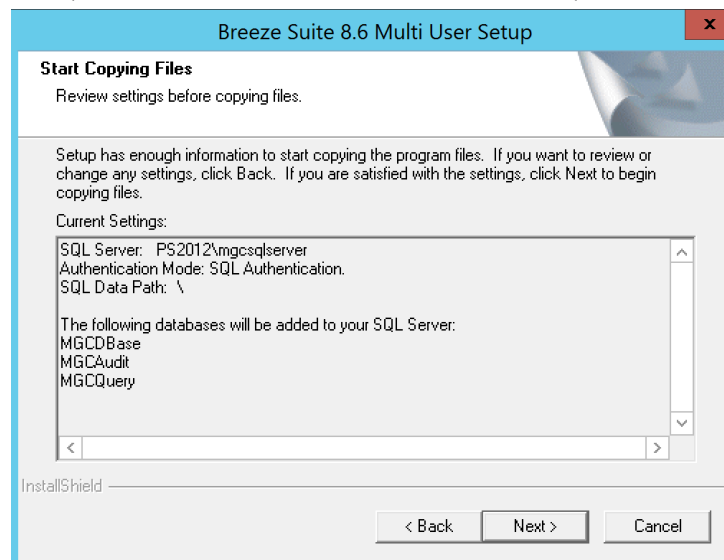
- 1.8. Verify you have created a backup of the BreezeSuite Network SQL Database (MGCDBase) and select the 'OK' button to continue. If a backup has not been performed, cancel the upgrade.



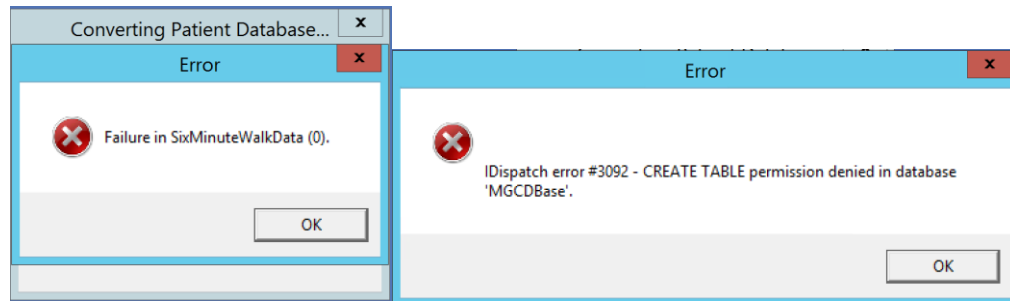
- 1.9. Review the "Start Copying Files" screen and verify the "Upgrade from BreezeSuite X.X" statement appears in the Current Settings window. Select 'Next>' button to continue with upgrade.



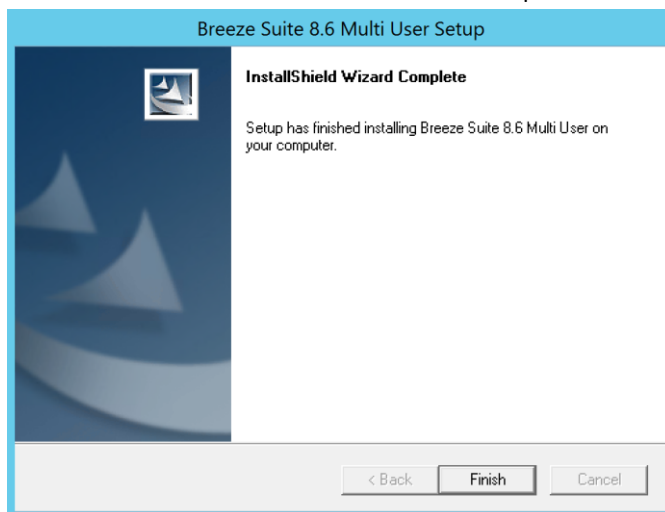
- 1.9.1. If the SQL Data Path was entered incorrectly, the Start Copying Files screen will display a message stating; "The following databases will be added to your SQL Server:". Select the '< Back' button to return to the "SQL Connection" screen and enter the correct SQL Data Path location



1.9.2. If the Admin User (SQL Authentication or Windows Authenticated user does not have DBOwner permission to the MGCDbase the following errors will display and the upgrade will fail.



1.10. Select 'Finish' on the "InstallShield Wizard Complete" screen



**You have successfully completed the BreezeSuite v8.6 Network SQL Database Upgrade.**

**You may not proceed with upgrading the network client workstations to Breezesuite v8.6.**