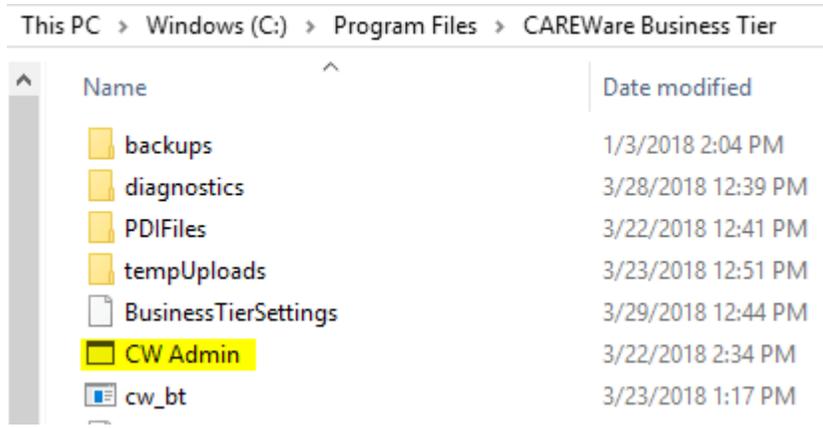


The CW Admin Utility is the interface for the business tier settings. The CW Admin Utility is where Administrators can set the connection between the business tier and database, test the connection, adjust HL7 Interface settings, read diagnostics files, and set many other CAREWare options.

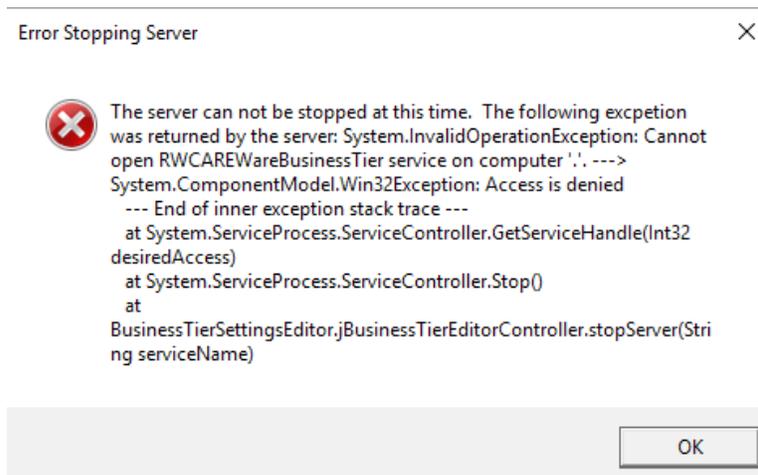
The default location for the CW Admin Utility is C:\Program Files\CAREWare Business Tier.

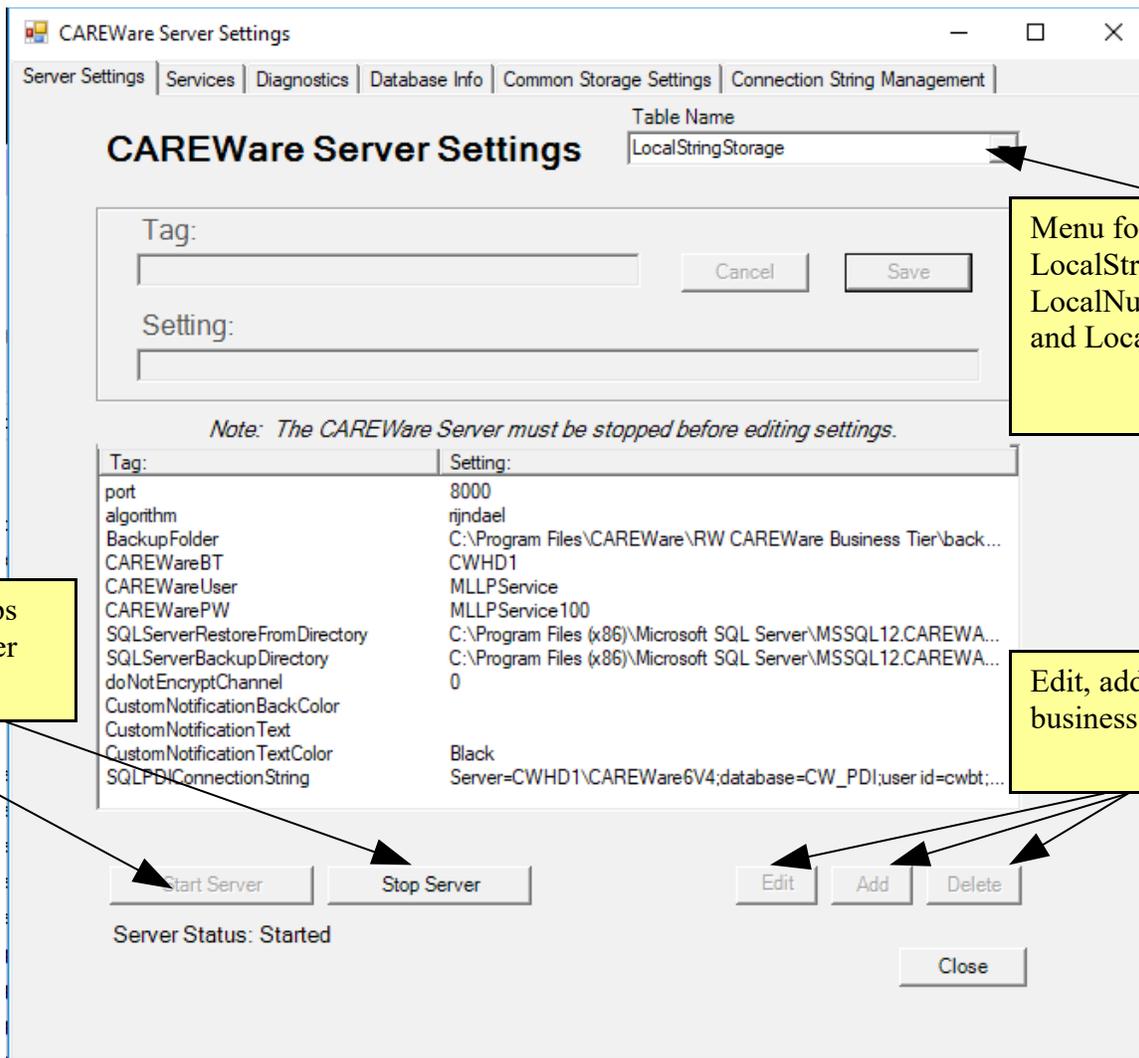


To run the CW Admin utility:

1. Go to C:\Program Files\CAREWare Business Tier.
2. Right click *CW Admin*.
3. Click *Run as Administrator*.

Note: The CW Admin Utility must always be run as administrator, even if the user is logged into a Windows Administrative account. If the CW Admin Utility is run without choosing Run as Administrator, the following error will occur when the RW CAREWare Business Tier service is stopped.





Menu for LocalStringStorage, LocalNumberStorage, and LocalDateStorage

Starts and Stops the business tier service

Edit, add, and delete business tier settings

Server Settings shows the current settings set for the business tier, allows for editing of several business tier settings, and provides access to start and stop the business tier service.

To start or stop the business tier service: Click Start Server or Stop Server.

To edit a setting:

1. Select a *Table Name*.
2. Click *Stop Server*.
3. Click the setting *Tag*.
4. Click *Edit*
5. Edit the value for *Setting*.
6. Click *Save*.

To add a setting:

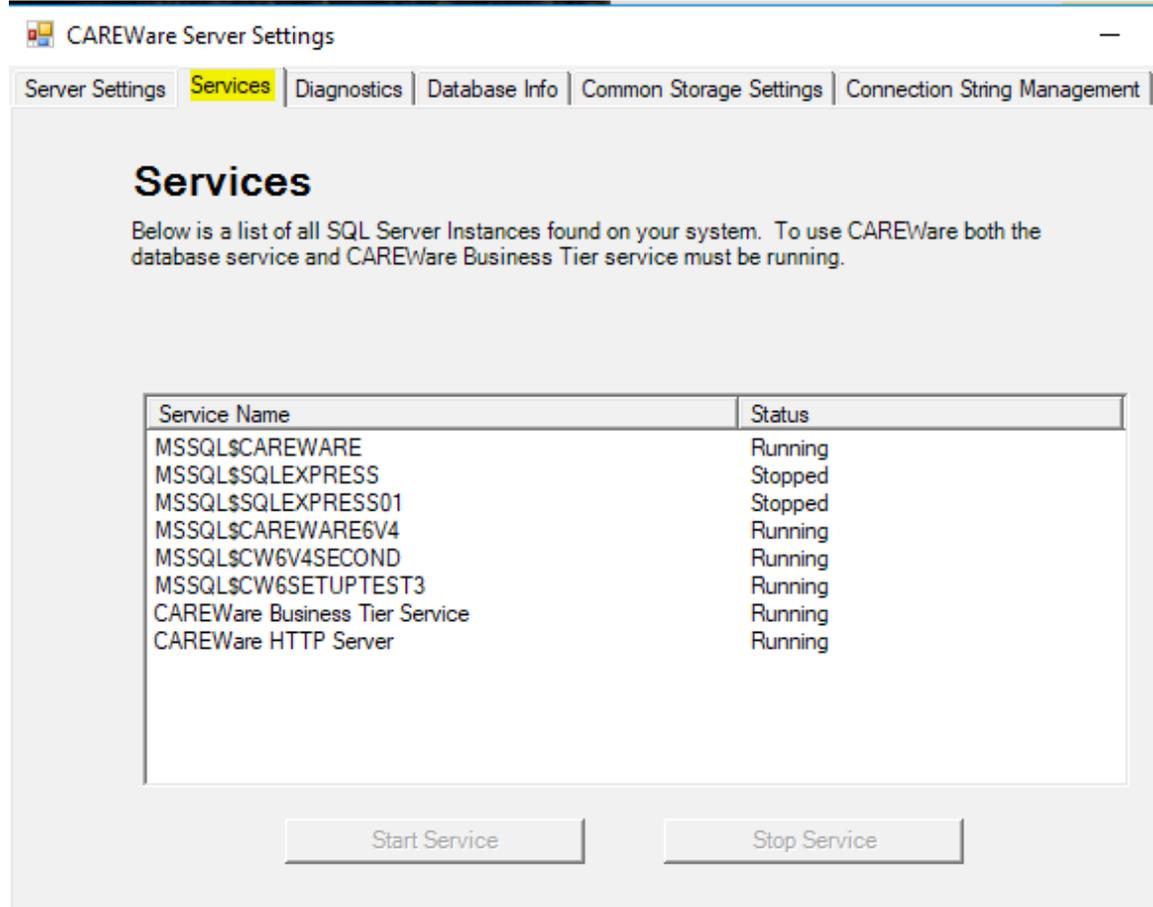
1. Select a *Table Name*.
2. Click *Stop Server*.
3. Click *Add*.
4. Enter a value for *Tag*.
5. Edit the value for *Setting*.
6. Click *Save*.

To delete a setting:

1. Select a *Table Name*.
2. Click *Stop Server*.
3. Click *Delete*.

Once changes are complete for settings, start the service by clicking *Start Server*.

The Services tab is another way to start and stop the business tier service. It includes an option to start and stop the database instance as well.



CAREWare Server Settings

Server Settings | **Services** | Diagnostics | Database Info | Common Storage Settings | Connection String Management

Services

Below is a list of all SQL Server Instances found on your system. To use CAREWare both the database service and CAREWare Business Tier service must be running.

Service Name	Status
MSSQL\$CAREWARE	Running
MSSQL\$SQLEXPRESS	Stopped
MSSQL\$SQLEXPRESS01	Stopped
MSSQL\$CAREWARE6V4	Running
MSSQL\$CW6V4SECOND	Running
MSSQL\$CW6SETUPTTEST3	Running
CAREWare Business Tier Service	Running
CAREWare HTTP Server	Running

Start Service Stop Service

The diagnostics tab provides a view of diagnostics files created by running the business tier diagnostics in the client tier application. Click [here](#) to review instructions for running the diagnostics application.

Diagnosics Files:

Diagnosics Files:
diagnostics\3_28_2018_16_00.txt
diagnostics\3_26_2018_11_00.txt

Diagnostic Info

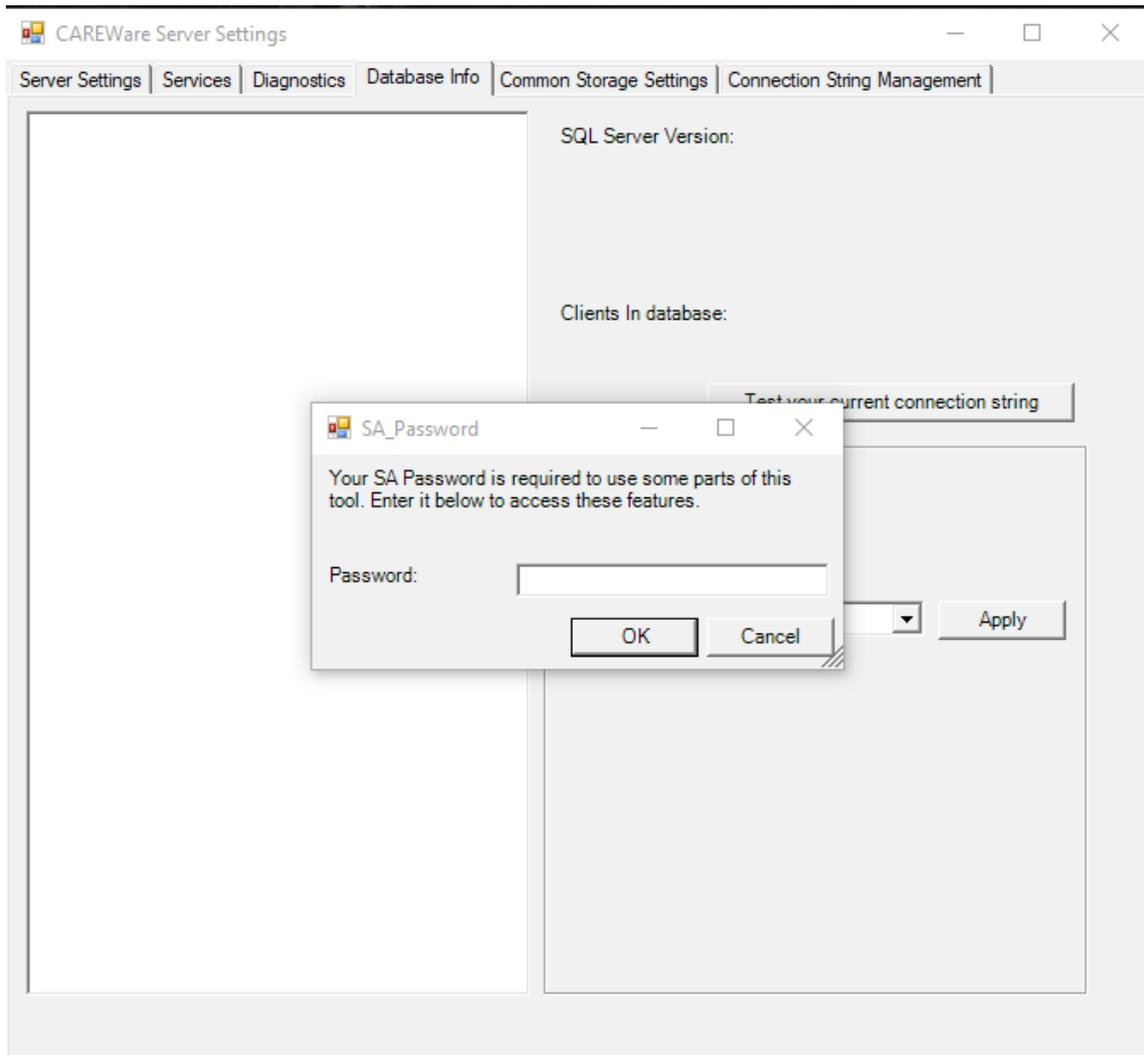
Total Clients: 4013 Free Disk Space (KB): 110287116 Ticks/ms: 10000

System Memory (MB): 8067 Memory in use (KB): 696152 User: [Dropdown]

Method Name:	Start Time:	Total Time (...)	Number of e...	Method Time...	Decryption T...	Encryption Ti...
	4:35:35 PM	0	9	0	0	0.998
	4:35:38 PM	0	141	0	0	0
	4:35:38 PM	0	83	0	0	0
DOC_Get_Do...	4:35:39 PM	2.0013	11	2.0013	0	0
DOC_Get_Do...	4:35:39 PM	12.0083	12	12.0083	0	0
SRV_Show_S...	4:35:39 PM	13.0086	11	13.0086	0	0
VS_Show_Sh...	4:35:39 PM	9.0056	11	9.0056	0	0
CUST_Show_...	4:35:39 PM	7.0046	11	7.0046	0	0
CN_Show_Sh...	4:35:39 PM	6.004	11	6.004	0	0
CRO_Get_Use...	4:35:39 PM	8.005	20	8.005	0	0
CRO_List_Are...	4:35:39 PM	4.0033	12	4.0033	0	0
OnTick	4:35:41 PM	291175.4082	40	291175.4082	0	0
ADM_PA_Get...	4:35:43 PM	10.0067	21	10.0067	0	0
RPT_Get_Can...	4:35:43 PM	7.0059	12	7.0059	0	0
CRR_Get_My...	4:35:43 PM	8.0074	11	8.0074	0	0

View Events

The Database Info tab is used to test the connection between the database and the business tier. The Database Info tab shows database users, roles, and databases in the SQL Server Database Instance. The Database Info tab includes an option for adjusting the Database Compatibility Level. If there is an error in roles for the cwbt login, a *Resolve* button will appear to resolve the issue.



To access the Database Info tab, the SA password will have to be entered for the database instance. [Here](#) are instructions for setting the SA password.

CAREWare Server Settings

Server Settings | Services | Diagnostics | **Database Info** | Common Storage Settings | Connection String Management

Databases

- Master
 - Users
 - ##MS_AgentSigningCertificate##
 - ##MS_PolicyEventProcessingLogin##
 - cwbt
 - dbo
 - guest
 - INFORMATION_SCHEMA
 - NT SERVICE\ReportServer\CAREWARE
 - sys
 - Roles
- CW_Data
 - Users
 - dbo
 - guest
 - INFORMATION_SCHEMA
 - sys
 - Roles

SQL Server Version: Microsoft® SQL Server Express Edition (64-bit) v 13.0.4206.0(SP1)

Clients In database: 4013

Test your current connection string

Administrative Tools

[Advanced Optimization Options](#)

Database Compatibility Level: SQL Server 2016 (130) Apply

CWBT is the database

SQL Server version for the database instance

Click here to test the connection between the database and the business tier

Click here to set the database compatibility level. It should match that of the SQL Server version.

Advanced Database Indexing Options which can be used to improve CAREWare performance

Advanced Database Optimization Options

This section can be used to optimize database settings and create or modify indexes in order to improve the database's efficiency.

Setting: **Auto Close** ON (Not Recommended) OFF (Recommended)

Setting: **Auto Shrink** ON (Not Recommended) OFF (Recommended)

View Index Suggestions

- Auto Close – When the last user exits the database, the database is shut down cleanly and resources are freed (Recommended to remain off as this may degrade performance.).
- Auto Shrink – If this setting is set to *ON*, SQL Server removes unused space from the database on a periodic basis (Recommended to remain off as this may degrade performance.).
- View Index Suggestions – Produces queries than can improve indexes in CAREWare to improve performance.

View Index Suggestions includes the option to execute all of the suggestions or save the script so a DBA can review the queries and run the chosen queries using SQL Server Management Studio.

Index Suggestion Results

Descriptions of the detected index suggestions are listed in the box below. Use the controls at the bottom of the dialog to either create all suggested indexes or to save a SQL script for creating them later from Microsoft SQL Management Studio.

Convert the primary key index for the cw_act_program_rft table to a clustered index.

Convert the primary key index for the cw_action table to a clustered index.

Convert the primary key index for the cw_action_class table to a clustered index.

Convert the primary key index for the cw_active_diagnosis_map table to a clustered index.

Convert the primary key index for the cw_active_ext_provider_map table to a clustered index.

Convert the primary key index for the cw_active_medication_map table to a clustered index.

Convert the primary key index for the cw_adap_brand table to a clustered index.

Convert the primary key index for the cw_adap_fomulary table to a clustered index.

Convert the primary key index for the cw_adap_generic_drug table to a clustered index.

Convert the primary key index for the cw_adap_indication_rft table to a clustered index.

Convert the primary key index for the cw_adap_ingredient table to a clustered index.

Convert the primary key index for the cw_adap_map table to a clustered index.

Convert the primary key index for the cw_adap_ndc table to a clustered index.

Convert the primary key index for the cw_adap_quarter table to a clustered index.

Convert the primary key index for the cw_adap_report table to a clustered index.

Convert the primary key index for the cw_agency_funding_rft table to a clustered index.

Convert the primary key index for the cw_agency_type_rft Table to a clustered index.

Convert the primary key index for the cw_annual_custom table to a clustered index.

Convert the primary key index for the cw_annual_review table to a clustered index.

Convert the primary key index for the cw_app_imm_map_definition table to a clustered index.

Convert the primary key index for the cw_app_map_immunization table to a clustered index.

Convert the primary key index for the cw_app_map_service table to a clustered index.

Convert the primary key index for the cw_app_map_subservice table to a clustered index.

Convert the primary key index for the cw_app_map_test table to a clustered index.

Convert the primary key index for the cw_app_map_vital_signs table to a clustered index.

Convert the primary key index for the cw_app_test_map_definition table to a clustered index.

Convert the primary key index for the cw_appointment table to a clustered index.

Convert the primary key index for the cw_appointment_purpose_rft table to a clustered index.

Convert the primary key index for the cw_appointment_status_rft table to a clustered index.

Convert the primary key index for the cw_appointment_type_rft table to a clustered index.

Convert the primary key index for the cw_art_prescribed_rft table to a clustered index.

Convert the primary key index for the cw_art_type_rft table to a clustered index.

The Common Storage Settings tab is a link to the Common Storage Settings table in the database. It contains many settings for CAREWare, including HL7 Interface settings, the version of the database, an option to reset and unlock users, the database connection string for attachments. [Here](#) is a list of the Common Storage Settings in Excel.

	cmm_st_pk	cmm_st_text	cmm_st_date	cmm_st_number
▶	DataTierVersion			96.6
	BusinessTierVersi...			
	versionTypeLevel			0
	firstNamePart			2
	secondNamePart			0
	thirdNamePart			1
	firstPunctuation	.		
	secondPunctuation			
	firstNameSortPart			2
	secondNameSort...			0
	thirdNameSortPart			1
	longTimerLastEla...		3/30/2018 12:59...	
	RegimenRebuilding			1
	vietnameseVersion	0		
	cultureSettingString	en-US		
	EncryptFmwrk	4.0		
	PIIFieldsEncrypted			1
	reportTimeout			180
	logChanges			0
	ResetLockoutAn...			
	LastExpiredPass...		3/26/2018	

Connection String Management allows users to set the business tier to database connection, encrypt the settings, and test the connection.

The screenshot shows the 'Connection String Management' tab in the 'CAREWare Server Settings' application. The fields are filled with: Server Address: C\WHD1\CW6SETUPTTEST3, Database Name: CW_Data, SQL Login ID: cwbt, and Password: [masked]. There is an unchecked checkbox for 'Encrypt In Settings File'. Buttons for 'Test Connection', 'Save', 'Cancel', and 'Show' are present. Below is a table with one row selected:

Connection String Identifier	Encrypted
DatabaseConnectionString	No

An 'Edit Selected' button is located at the bottom right of the table area.

Server Address – The name of the PC/Server where the CAREWare database instance is installed and the name of the CAREWare database instance.

Database Name – The name of the CAREWare database in the SQL database instance.

SQL login ID – The SQL login that is the database owner for cw_data.

Password – The password for the SQL login ID.

Show – Displays the hidden password for the login.

Encrypt In Settings File – When checked the database connection string is encrypted in the BusinessTierSettings.xml file.

Test Connection – Tests the connection between the CAREWare business tier and the CAREWare database.

Save – Saves changes to the database connection string.