



# Repair SonarWiz Utility

*Revision 1.0, 11/12/2017*

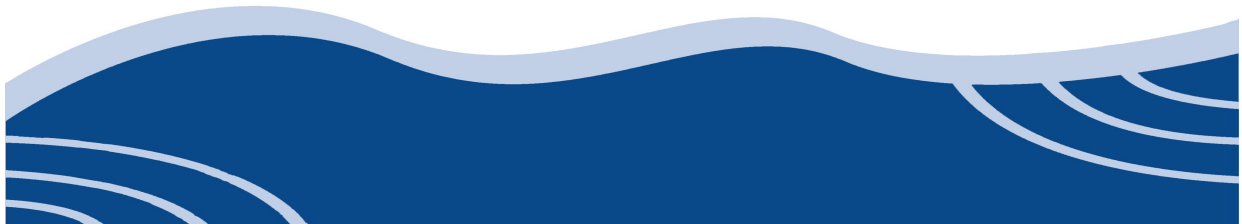
Chesapeake Technology, Inc.

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## Overview

Repair SonarWiz 7 is a tiny utility application that can restore functionality to a broken SonarWiz 7 system. The idea is that this utility could be run by the user when they get SonarWiz into a state where it won't launch. Typically, when this happens, users start uninstalling and reinstalling and get frustrated pretty fast. The idea with this utility is that we throw them a life raft and also potentially discover the source of the crash in the process.

## What it Does

Repair SonarWiz 7 essentially does two simple tasks:

- 1) Makes a copy of the current SonarWiz 7 registry state as a .REG file and then deletes the current registry state for SonarWiz 7.
- 2) Makes a backup copy of the current INI files in C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings and then deletes them.

The backed up REG file and INI files are copied into the folder:

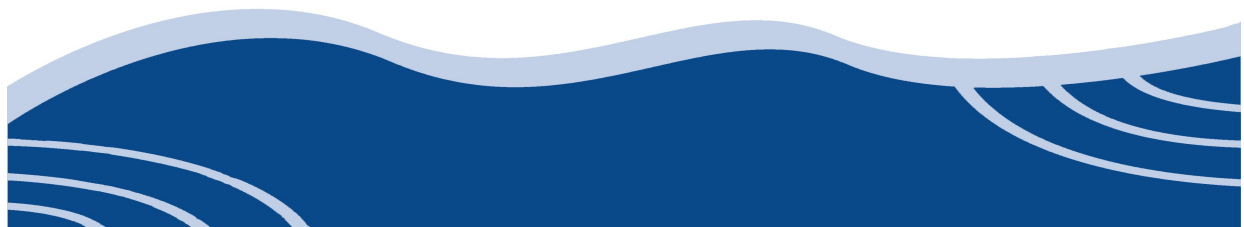
C:\Users\<USER\_NAME>\AppData\Roaming\Chesapeake  
Technology\RepairSonarWiz7\YYYYMMDD\_HHMMSS

In the case where a user elects to use the Repair SonarWiz 7 utility we can ask for the contents of this folder for post-analysis that will hopefully lead us to conditions that caused the failure.

## What it Does Not Do

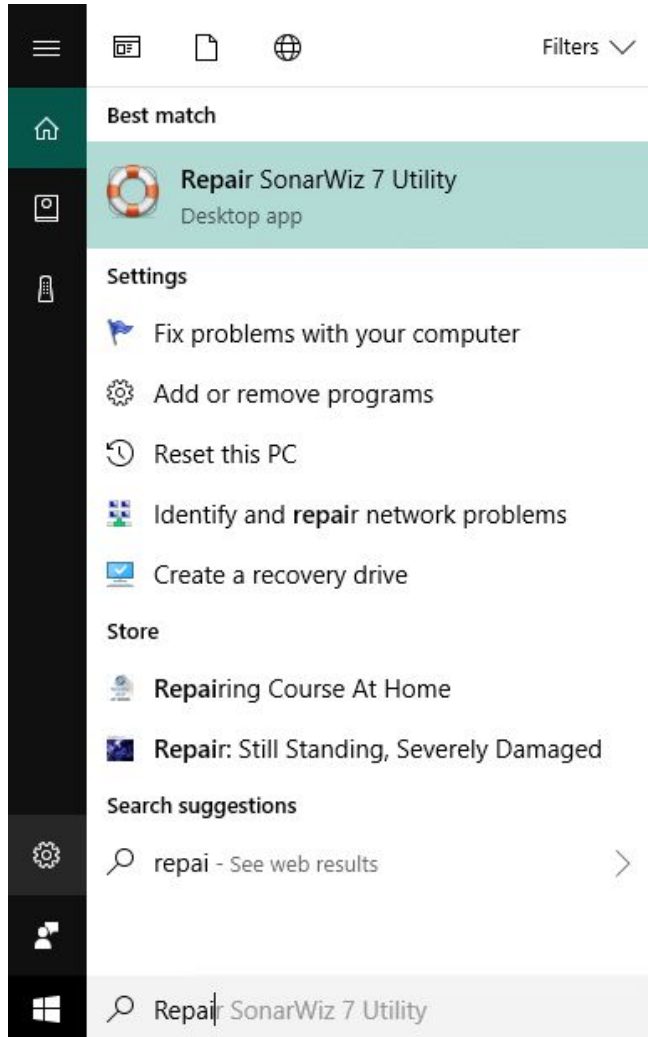
Repair SonarWiz 7 does not delete ANY user data files. The state of the current SonarWiz project file and all of its subfolders remains as it was. Repair SonarWiz 7 knows nothing about the current SonarWiz project.

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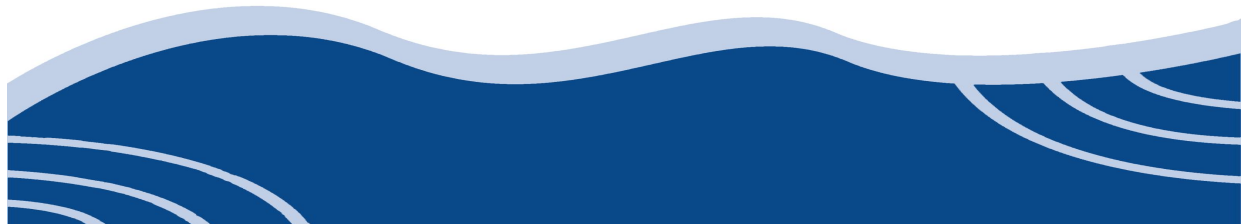
## How to Launch Repair SonarWiz 7

Repair SonarWiz 7 is installed with the SonarWiz 7.00.0014 and later versions. It should appear on the start menu for Windows 7 and it's available in Windows 10 by typing "Repair SonarWiz" into the Cortana or run box like this...



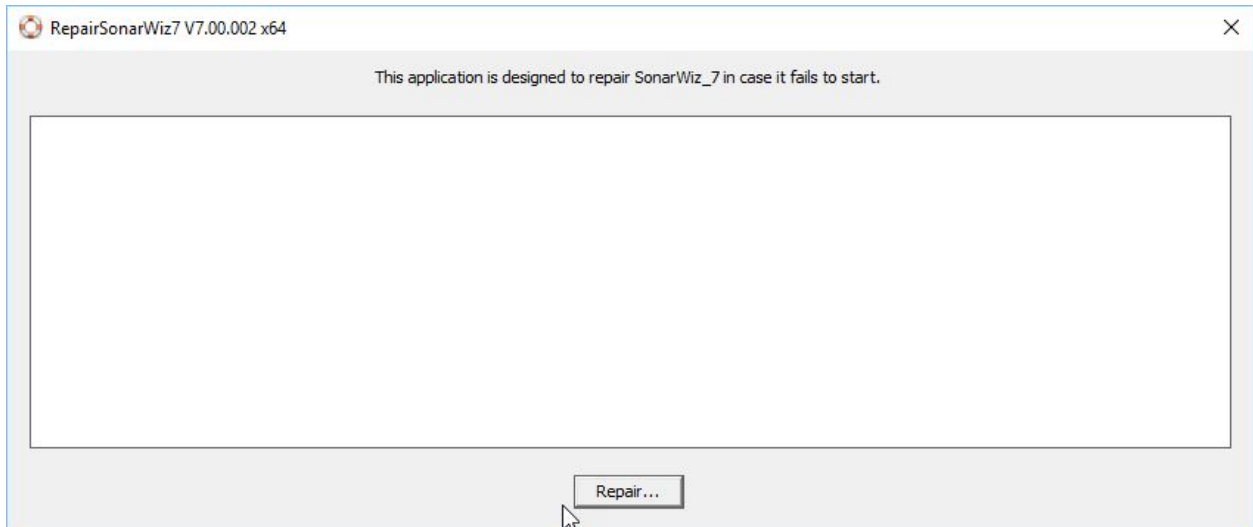
At startup, the application may prompt the user for Administrative privilege which is required to save the registry file.

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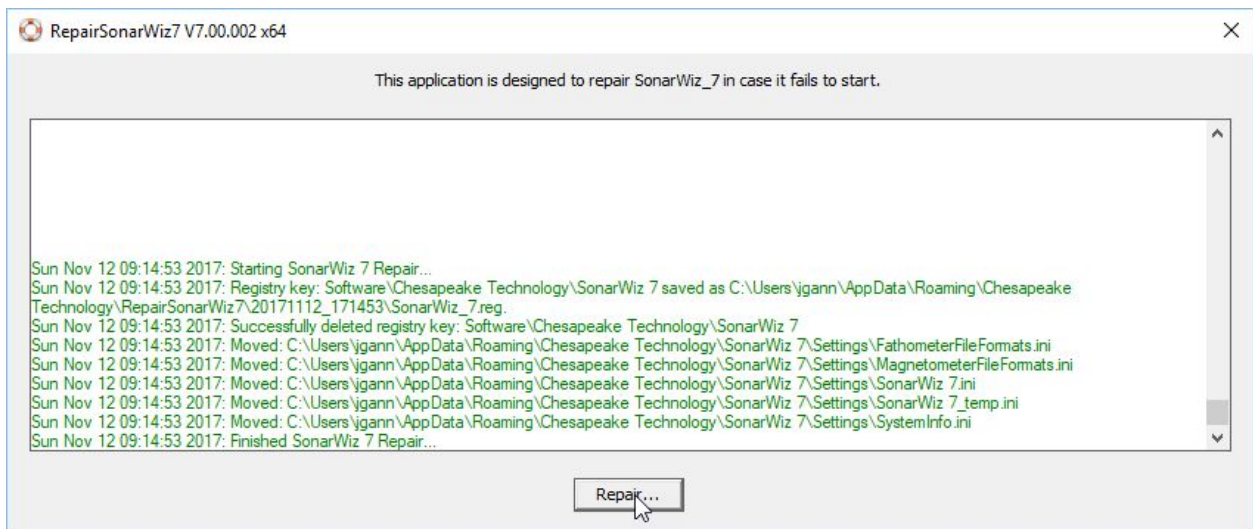


ED NOTE: *It was weird that deleting a registry key does not require administrative rights but saving a key to a file does. Hey that's Windows security.*

The application once launched looks like this:



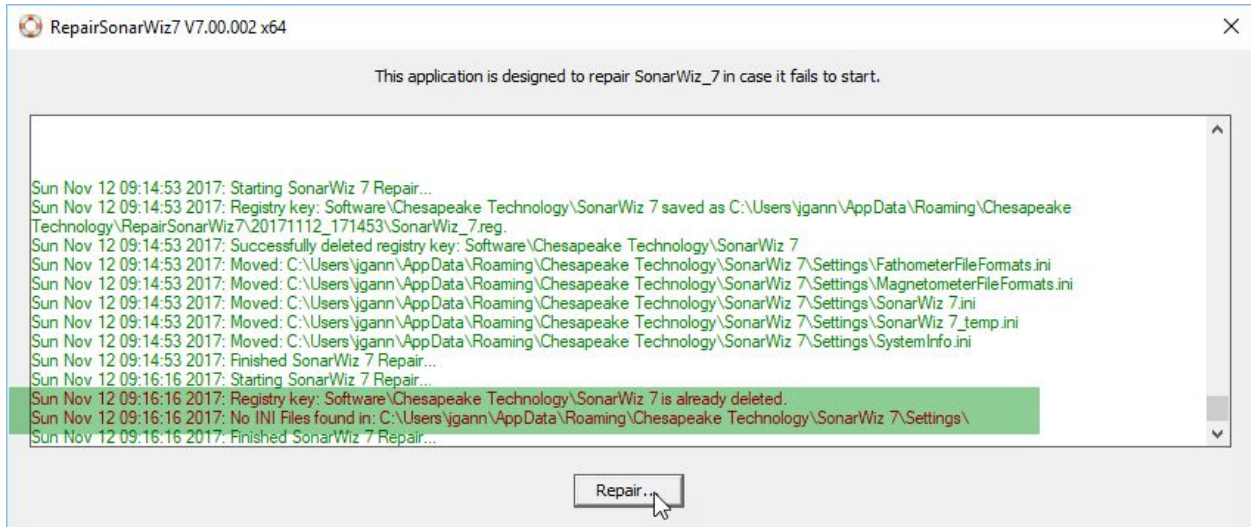
Not a lot of choices to explain here but pressing the Repair button causes the action to start...



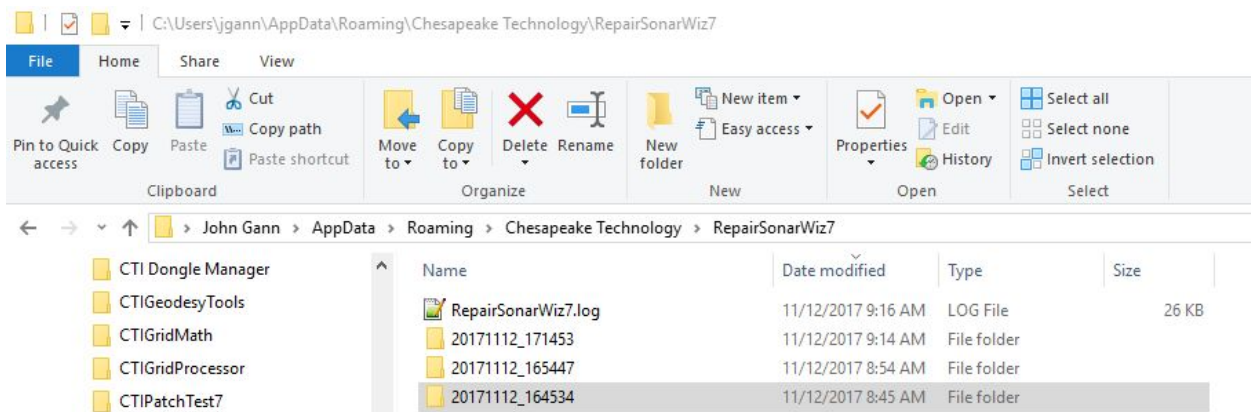
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If everything is successful, the files will be backed up and the registry cleaned. If the user attempts to do this twice a message will show indicating that there was no SonarWiz registry key found...

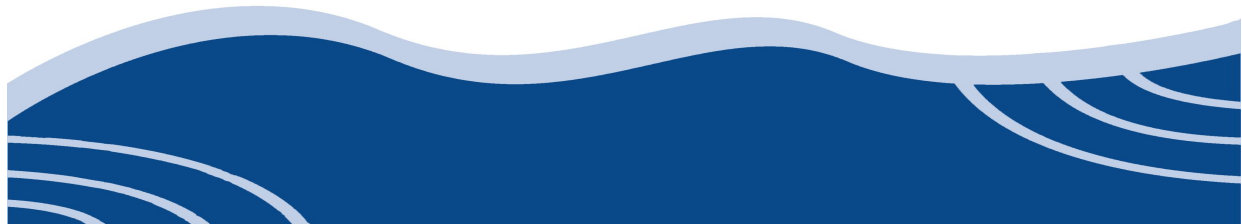






Each time the Repair button is pressed (and work is actually done) the utility creates a sub-folder based on the current date and time like this...



Within the output folders we expect to see this set of files...

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Name	Date modified	Type	Size
 SonarWiz 7.ini	11/12/2017 8:44 AM	INI File	30 KB
 SonarWiz 7_temp.ini	11/12/2017 8:44 AM	INI File	1 KB
 SonarWiz 7.reg	11/12/2017 8:45 AM	Registration Entries	100 KB
 SystemInfo.ini	11/12/2017 8:44 AM	INI File	8 KB

### RepairSonarWiz7.log File

Like most of our utilities there is a cumulative running log file stored here:

C:\Users\<<USERNAME>\AppData\Roaming\Chesapeake

Technology\RepairSonarWiz7\RepairSonarWiz7.log

This log file writes all of the same messages visible in the window plus a few more...

```

309 11/12/2017,16:54:43.704, -----
310 11/12/2017,16:54:43.709, Starting RepairSonarWiz7 V7.00.002 x64
311 11/12/2017,16:54:43.717, Timestamp: Sun Nov 12 08:52:25 2017
312 11/12/2017,16:54:43.718, Libraries...
313 11/12/2017,16:54:43.720,         CTIDevUtils Lib         Version V2.14.10  x64
314 11/12/2017,16:54:47.526, Starting SonarWiz 7 Repair...
315 11/12/2017,16:54:47.541, Registry key: Software\Chesapeake Technology\SonarWiz 7 is already deleted.
316 11/12/2017,16:54:47.545, No INI Files found in: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\
317 11/12/2017,16:54:50.038, Closed log file.
318 11/12/2017,17:13:04.057, -----
319 11/12/2017,17:13:04.066, Starting RepairSonarWiz7 V7.00.002 x64
320 11/12/2017,17:13:04.068, Timestamp: Sun Nov 12 08:52:25 2017
321 11/12/2017,17:13:04.070, Libraries...
322 11/12/2017,17:13:04.071,         CTIDevUtils Lib         Version V2.14.10  x64
323 11/12/2017,17:14:53.401, Starting SonarWiz 7 Repair...
324 11/12/2017,17:14:53.415, Registry key: Software\Chesapeake Technology\SonarWiz 7 saved as C:\Users\jgann\AppData\Roaming\
325 11/12/2017,17:14:53.421, Successfully deleted registry key: Software\Chesapeake Technology\SonarWiz 7
326 11/12/2017,17:14:53.427, Moved: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\FathometerFileFo
327 11/12/2017,17:14:53.430, Moved: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\MagnetometerFile
328 11/12/2017,17:14:53.432, Moved: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\SonarWiz 7.ini
329 11/12/2017,17:14:53.435, Moved: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\SonarWiz 7_temp.
330 11/12/2017,17:14:53.437, Moved: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\SystemInfo.ini
331 11/12/2017,17:16:16.927, Starting SonarWiz 7 Repair...
332 11/12/2017,17:16:16.932, Registry key: Software\Chesapeake Technology\SonarWiz 7 is already deleted.
333 11/12/2017,17:16:16.934, No INI Files found in: C:\Users\jgann\AppData\Roaming\Chesapeake Technology\SonarWiz 7\Settings\

```

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