GENESIS32 – Microsoft Access Compaction for Logging Databases

APPLICATIONS NOTE

October 2013

Description: This Application Note will explain how we can compact the Access Databases where data are logged to using TrendWorX32 and AlarmWorX32.
OS Requirement: Win 2000, XP Pro, Server 2003, Vista, Server 2008, Windows 7
General Requirement: Both TrendWorX32 and AlarmWorX32 logging must be stopped before performing the actions in this app note.

Introduction

During the data logging process, Access defrags memory. It does not return the used up space to the operating system after it finishes using it and the size of the database keeps on growing. This makes the database seem huge even though there is very little data being logged. We can reduce the size of the database and save space by doing a database compaction. This will release the unused space back to the operating system for future use.

Because Access cannot handle more than 1GB of data, it is also advised that you compact the database when it has been in use for some time.

Steps for AlarmWorX32

1. Before you start, make sure all of the data logging is stopped and all of the clients are disconnected.
2. Make a backup copy of your database. Alternatively, Access will make a backup copy of the database before your database compaction
3. Go to **Start → Programs → ICONICS GENESIS32 → AlarmWorX32 → Alarm Logger Configurator** and open it.
4. Go to **Tools** and select **Compact/Repair Access Database**. See Figure 1

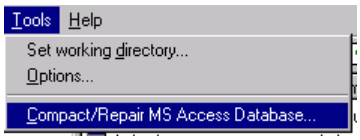

Figure 1 – AlarmWorX32 Compact/Repair MS Access Database

5. The Compact/Repair MS Access Repair Database window will open up. Select the database file (which has all the Alarm information) for compacting, see Figure 2.

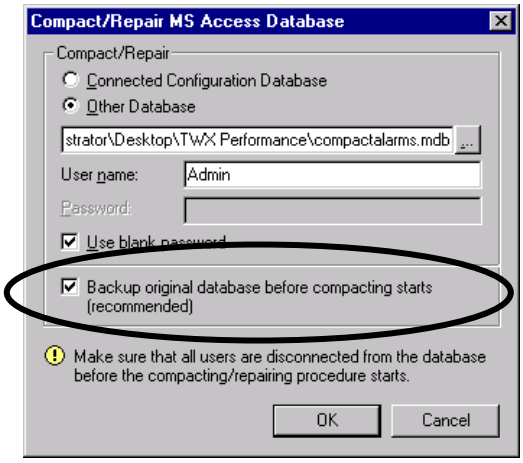

Figure 2 - Compact/Repair MS Access Database Dialog

6. Select the option to backup the Original Database as shown in Figure 2.
7. After the compacting is finished you get a message box. See the figure below:

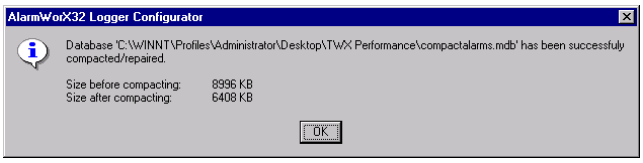

Figure 3 - Confirmation Dialog

8. Compare the file size and you will notice that the size has indeed reduced after the above procedure.

Steps for TrendWorX32

1. Make sure all TrendWorX32 clients are disconnected and the data logging has stopped.
2. Make a backup copy of your Database.
3. Go to **Start → Programs → ICONICS GENESIS32 → TrendWorX32 → TrendWorX32 Configurator** and open it.
4. Go to **Tools** and select **Compact/Repair MS Access Database**. It will look similar to Figure 1.
5. The Compact/Repair MS Access database window will open up, as shown in Figure 2. Select the file to compact (which has all the Trend information) and also select the option to backup the existing database.
6. After the database is compacted, you will get a success message along with the previous size and the reduced size. See Figure 3.
7. After you are done with Compacting, you can start the applications for data logging.

NOTE: New in GENESIS32 v9 is the TrendWorX32 Tuning Wizard which will also allow you to compact your TrendWorX32 MDB files.

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