

## How to Fix "Database Disk Image is Malformed" Error

You may see the "database disk image is malformed" error in TekRADIUS log. This could happen during unplanned shutdown or reboot. The error indicates that one or more of the sqlite3 databases may have become corrupted.

You need to have sqlite3.exe to diagnose and fix the problem. You can download SQLite command line tools from <https://www.sqlite.org/download.html>.

You must stop TekRADIUS service and quit TekRADIUS Manager first. Make a backup of existing database file C:\Program Files (x86)\TekRADIUS LT\TekRADIUSLT.db3 to C:\SQLite

Unzip SQLite command line utilities to a folder C:\SQLite and copy all files in the archive and the database file to that folder. Open a command line folder, change directory to C:\SQLite and perform the integrity check;

```
C:\WINDOWS\system32>cd \SQLite
C:\SQLite>sqlite3 TekRADIUSLT.db3 "PRAGMA integrity_check;"
```

If you see errors in the output, then the check did not pass. You will unload all uncorrupted data and then load it back. Run command

```
C:\SQLite>sqlite3 TekRADIUSLT.db3
SQLite version 3.34.1 2021-01-20 14:10:07
```

Enter ".help" for usage hints.

You will see a prompt from sqlite3. Run this SQL script:

```
sqlite>.mode insert
sqlite>.output dump.sql
sqlite>.dump
sqlite>.exit
```

You need to edit the SQL file dump.sql. Run following command;

```
C:\SQLite>powershell "Get-Content dump.sql | Select-String -NotMatch TRANSACTION
| Select-String -NotMatch ROLLBACK | Select-String -NotMatch COMMIT | Set-
Content -Encoding utf8 dump_notrans.sql"
```

Delete the corrupted database;

```
C:\SQLite>del TekRADIUSLT.db3
```

Load the unloaded data into the new database

```
sqlite3 TekRADIUSLT.db3 ".read dump_notrans.sql"
```

You can copy the reconstructed TekRADIUSLT.db3 to C:\Program Files (x86)\TekRADIUS LT\