Firebird --- GFIX and GBAK --- Repair a Database for Time Guardian Pro

- Work with a copy of the database.
- GFIX and GBAK utilities are located here - C:\Program Files\Firebird\Bin
- Copy the TGPRO.FDB file into this directory and open a CMD prompt.
- Change directories in DOS to C:\Program Files\Firebird\Bin

Perform the following commands:

1. **SET ISC_USER=SYSDBA**
2. **SET ISC_PASSWORD=masterkey** (or user defined password)
3. Rename the **tgpro.fdb** to **tgpro.gdb** (g instead of f)
4. **gfix -v -f tgpro.gdb** (checks for corruption)
5. **gfix -m -i tgpro.gdb** (if there is corruption, use this to mend the db)
6. **gbak -b -g -v -z tgpro.gdb tgprobackup.gbk** (backup the db and rename it)
7. **gbak -c -v tgprobackup.gbk tgpro.fdb** (restores the db and renames it)
8. Copy your **tgpro.fdb** file back to the **db** directory in **TG Pro**.

GFIX Syntax:

To check for corruption: **gfix -v -f tgpro.gdb**

To mend the database: **gfix -m -i tgpro.gdb**

-v [Validate] Check database for validity. Errors are reported and repaired.
-f [Full] Use with the -v option. Checks all records for unassigned record fragments.
-m [Mend] Marks corrupt records as unavailable so they're skipped on backup.
-i [Ignore] Ignores checksum errors during a validate or sweep.

GBAK Syntax:

To backup the database and name the backup: **gbak -b -g -v -z tgpro.gdb tgprobackup.gbk**

To restore the database: **gbak -c -v tgprobackup.gbk tgpro.fdb**

-b [Backup_database] Back up.
-g [Garbage collect] does not perform garbage collection (sweeping) during backup
-**v** [Verbose] Verbose output of what GBAK is doing
-z Show GBAK version and server version
-c [Create_database] Restore to a new database (the target db file MUST NOT exist)
-v [Verbose] Verbose output of what GBAK is doing.

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