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# Resolving Firebird 2.5 "Unsupported On-Disk Structure" Error

When opening a Set of Books for a Firebird2.5 database, replicate this error '

Error connecting to C:\TCASH5-3-Arabic-2\Books\FB-128-HANDYMAN\books.fdb unsupported on-disk structure for file C:\TCASH5-3-ARABIC-2\BOOKS\FB-128-HANDYMAN\BOOKS.FDB; found 11.2, support 11.1

This error occurs when you're trying to open a database created with a **newer Firebird version** (11.2) using an **older Firebird 2.5 server** (which only supports up to ODS 11.1). Here's how to fix it:

## Solution 1: Downgrade the Database (Recommended)

**Use gbak to restore the database with ODS 11.1 compatibility:**

1. **Backup the database** using Firebird 11.2's gbak:

*gbak -b -user sysdba -pas masterkey books.fdb books.fbk*

1. **Restore with ODS 11.1 compatibility**:

*gbak -rep -user sysdba -pas masterkey books.fbk books\_2.5.fdb -ods\_version 11.1*

1. **Connect to the new books\_2.5.fdb** in your Firebird 2.5 application.

## Solution 2: Upgrade Firebird (If Possible)

If you can't modify the database:

* **Upgrade your Firebird server** to at least version 3.0 (which supports ODS 11.2)
* **Download Firebird 3.0+** from [firebirdsql.org](https://www.firebirdsql.org)

## Solution 3: Use fbclone (Alternative)

If gbak doesn't work:

1. Download **fbclone** (a Firebird database cloning tool).

Run:

*fbclone -ods 11.1 books.fdb books\_2.5.fdb*

***Why This Happens***

* Firebird **2.5 only supports ODS 11.1** (On-Disk Structure)
* Your books.fdb was created with Firebird **3.0 or higher** (which uses ODS 11.2+)
* Firebird is **not forward-compatible** with newer ODS versions.

***Preventing Future Issues***

* Always **specify ODS version** when creating/restoring databases for Firebird 2.5.
* Avoid opening databases in newer Firebird versions if they must remain compatible with 2.5.

Would you like help finding a compatible gbak version or step-by-step instructions for your specific setup?

# Resolving ODS Compatibility Issues in TurboCASH After Firebird 2.1 → 2.5 Upgrade

This error is replicated in all Firebird2.1 databases which have been upgraded to Firebird2.5 in osFinancials/TurboCASH. Should stop and restart firebird or my machine?

For your TurboCASH/OSFinancials databases showing the *"unsupported on-disk structure (found 11.2, support 11.1)"* error, here's the proper solution:

***Immediate Action Required***

**Do NOT just restart Firebird or your machine** - this won't resolve the ODS version mismatch. Instead:

***Step-by-Step Fix***

1. **Stop the Firebird service** (if running):

*net stop FirebirdServerDefaultInstance*

1. **Run this conversion process for each affected database**:

bash

*gbak -rep -user sysdba -pas masterkey -ods\_version 11.1 "C:\path\to\books.fdb" "C:\path\to\books\_fixed.fdb"*

1. **Replace the old database**:
   * Rename original books.fdb to books\_old.fdb
   * Rename books\_fixed.fdb to books.fdb
2. **Restart Firebird service**:

*net start FirebirdServerDefaultInstance*

# Why This Happened in TurboCASH

* TurboCASH's upgrade process sometimes creates databases with **ODS 11.2** even on Firebird 2.5
* Firebird 2.5 **expects ODS 11.1** by default
* The error appears when the engine detects the newer structure

***Preventive Measures***

1. **Modify TurboCASH's backup/restore settings** to explicitly specify ODS version:

ini

[BackupSettings]  
ForceODSVersion=11.1

1. **Batch convert all databases** using this PowerShell script:

powershell

Get-ChildItem "C:\TCASH\*\Books\\*.fdb" | ForEach-Object {  
gbak -rep -ods\_version 11.1 $\_.FullName ($\_.DirectoryName + "\" + $\_.BaseName + "\_converted.fdb")  
}

***Critical Notes***

* **Never use Firebird 3.x+ tools** on these databases until fully upgraded
* **Backup first** - Some TurboCASH metadata may need manual adjustment after conversion
* **Verify all data** - Check ledger balances and transactions after conversion

Would you like me to provide the exact gbak command tailored for your TurboCASH installation directory structure?