

Using DatabaseBridge (Easydb) with Multi-Company / Multi-Year ISAM File Structures

When migrating multi-company, multi-year or otherwise *multi-instance* ISAM data layouts to isCOBOL DatabaseBridge (easydb), it is common for customers to maintain multiple directories containing identical file structures, for example:

```
/C01/data/clients  
/C02/data/clients  
/C03/data/clients  
...
```

DatabaseBridge can handle these scenarios through a combination of EFD directives and iscobol.easydb properties.

This article explains how to configure these elements so that a single EDBI routine can serve multiple physical file locations.

1. Define the Base Table Name Using an EFD Directive

Each ISAM file that will be managed by easydb must declare an EFD directive to define the base table name:

```
>>efd file=clients  
fd clifil.  
01 cli-rec.  
05 cli-key pic x(6).  
05 cli-name pic x(30).
```

The value provided in “file=” becomes the logical base name used during table resolution.

2. Managing Multi-Directory Structures with iscobol.easydb.dirlevel

iscobol.easydb.dirlevel tells easydb how many directory levels above the file should be incorporated into the generated table name.

Example scenario

Data directories:

```
/C01/data/clients  
/C02/data/clients
```

The file is two directory levels below /C01 or /C02, so:

```
iscobol.easydb.dirlevel=2
```

With this setting, DatabaseBridge constructs table names like:

```
- c01dataclients >> from /C01/data/clients  
- c02dataclients >> from /C02/data/clients
```

3. Mapping Table Names to EDBI Routines Using `iscobol.easydb.mapping`

Because directory levels alter the final table name, the EDBI routine must be explicitly associated using the mapping property.

For the previous example:

```
iscobol.easydb.mapping=*clients=clients
```

This instructs the runtime to route any file whose final table name ends with “clients” to the `EDBI_clients` routine.

Notes on mapping behavior

- You may use the wildcard * (only wildcard supported).
- The first match wins, order matters.
- Dots in filenames become underscores. Example: `file1.db` must be mapped as `file1_db=file1`.

4. Complete Runtime Configuration

In addition to the two properties above, the runtime configuration still requires JDBC properties specific to the database being used and the `iscobol.file.index` property set to `easydb`:

Example (partial):

```
iscobol.file.index=easydb
```

```
iscobol.easydb.prefix=srv
```

```
iscobol.easydb.commit_count=1
```

```
iscobol.easydb.dirlevel=2
```

```
iscobol.easydb.mapping=*clients=clients
```

```
iscobol.jdbc.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
```

```
iscobol.jdbc.url=jdbc:sqlserver://localhost:1433;user=sa;password=TheAdminPass;encrypt=false  
;DatabaseName=VERYANT;sendStringParametersAsUnicode=false
```

...

Summary

When working with multi-company/multi-year ISAM file layouts, DatabaseBridge can dynamically redirect file I/O to different database tables based on directory structure. The combination of:

- EFD table name definition
- Directory-based table naming (`dirlevel`)
- EDBI routine mapping (`mapping`)

allows a single file definition and a single EDBI routine to service many physical file instances cleanly and reliably.

Online URL: <https://support.veryant.com/phpkb/article.php?id=356>