

# 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>