



Ship & Mail
Mailing Software

Relay Unify uFileSweeper

User Guide

US English Edition
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uFileSweeper Application Overview

Purpose: A Windows batch file processing application that automates PDF document archival and FTP distribution.

1. Initialization Phase (FormCreate)

- Initializes all variables to empty/false state.
- Attempts to read database connection parameters from dbservices.ini .
- If database connection fails, terminates the application.
- If successful, enables the startup timer.

2. Database Connection (GetConnectionParam)

- Reads dbservices.ini from the application directory.
- Supports both encrypted and plain-text credentials.
- Supports two authentication modes:
 - SSPI (Windows Integrated Security): Uses current Windows user credentials.
 - SQL Authentication: Uses username/password from config.
- Sets query timeout (minimum 45 seconds, default 60).
- Stores connection string and configures ADO connection object.

3. Logging Setup (DoMessage)

- Creates a logs directory: {AppPath}\logs\
- Generates timestamped log files: uFileSweeper_YYYYMMDDhhnnsszzz.log
- Auto-cleans old log files based on LogRetDays setting (default: 30 days).
- Appends timestamped messages to the log.
- Only logs if Debug mode is enabled in config.

4. File Processing (StartProcessing)

The core business logic that runs when the timer fires:

Step 1: Read Configuration File

- CSV format: SubTypeID,WatchFolder.
- Example: 1,C:\Watch\Invoices\

Step 2: For Each Line

- Parse CSV fields using BreakCSV() procedure.
- Validate at least 2 fields exist (SubTypeID and WatchFolder).
- Check that the Watch folder exists.

Step 3: Query Database

- Execute adoqSubtype query with SubTypeID parameter.
- Retrieves: FTP destination folder (FTPDir) and subtype ID (subid).

Step 4: Validate FTP Folder

- Check that FTP destination path exists and is accessible.

Step 5: Process PDF Files

- Get all *.pdf files from the Watch folder.
- Create ZIP file: {SubTypeID}_{subid}_{YYYYMMDDhhnnss}.zip
- Add each PDF to the ZIP archive.
- Delete each PDF after zipping.
- Log progress for each file.

Step 6: Move to FTP

- If files were zipped, move the ZIP to the FTP destination folder.
- Log success or failure.
- If no files were found, delete the empty ZIP file.

5. Termination (TimerStartTimer)

- Calls StartProcessing() when timer fires (once at startup).

- Logs completion message.
- Terminates the application (one-shot execution).

Configuration Files:

dbservices.ini:

```
[DATABASE]

ServerName=MyServer

ADOUserID=sa

ADOPW=Password123

DEFAULTDB=MyDatabase

PROVIDER=SQLOLEDB

Encrypted=false

ISEC=SSPI

[DB]

Timeout=60

[uFileSweeper]

Logging=true

LogRetDays=30
```

uFileSweeper.config:

1,C:\Watch\Invoices\

5,C:\Watch\Payments\

7,D:\Watch\Receipts\

Summary

uFileSweeper is a one-shot batch processor that:

- ✓ Reads database and processing configuration.
- ✓ Monitors configured watch folders for PDF files.
- ✓ Archives PDFs into timestamped ZIP files by document type.
- ✓ Moves completed ZIPs to FTP destination folders (via database lookup).
- ✓ Cleans up original PDF files after archival.
- ✓ Maintains comprehensive debug logs with automatic cleanup.
- ✓ Terminates after one complete processing cycle.

Typical use case: Scheduled batch job (via Windows Task Scheduler) that runs daily to archive and distribute scanned documents to their respective FTP locations based on document type.