

Music File Organizer User Manual

Version 2.0

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For Music Producers & DJs

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Built with PowerShell and .NET Framework

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1 Introduction

The Music File Organizer is a powerful tool designed to help music producers and DJs manage their audio files efficiently. This PowerShell-based application organizes music files by file type, renames them by removing unwanted text, creates backups, and generates detailed HTML logs for tracking operations. With a user-friendly graphical interface, it simplifies the process of sorting large music libraries while ensuring data integrity through robust conflict resolution and backup features.

This manual provides a comprehensive guide to the program's functionality and step-by-step instructions for its use. Whether you're organizing a small collection or a library with thousands of files, this tool is designed to streamline your workflow.

2 Program Features

The Music File Organizer offers a range of features to manage audio files effectively:

2.1 File Organization by Type

- **Supported Formats:** Organizes files with extensions `.mp3`, `.wav`, `.flac`, and `.aiff`.
- **Directory Structure:** Creates subdirectories in the destination folder based on file extensions (e.g., `mp3`, `wav`) and places each file in a dedicated folder named after its sanitized filename.
- **Batch Processing:** Processes files in batches of 500 to ensure responsiveness, even with large libraries (over 1,000 files).

2.2 Filename Sanitization and Renaming

- **Text Removal:** Removes specified text (e.g., "Official Video", "Lyrics") from filenames, either from a user-provided text file or a default list.
- **Sanitization:** Cleans filenames by removing invalid characters, excessive spaces, and special symbols, ensuring compatibility with file systems.
- **Length Management:** Truncates long filenames to fit within 200 characters and resolves path length issues (up to 260 characters).

2.3 Backup Creation

- **Automatic Backups:** Copies files to a user-specified backup directory with a timestamped folder (e.g., `Backup_20250507_143022`).
- **Preservation:** Maintains the original directory structure in the backup for easy restoration.
- **Large File Support:** Uses buffered copying to handle large audio files efficiently.

2.4 Conflict Resolution

- **Options:** Provides three conflict resolution modes for existing files or folders:
 - **Overwrite:** Replaces existing files or folders.
 - **Skip:** Skips files or folders that already exist.

- **Prompt:** Displays a dialog for the user to choose an action (Overwrite, Keep Both, or Skip).
- **Unique Naming:** Generates unique filenames or folder names (e.g., `filename_1.mp3`) when “Keep Both” is selected.

2.5 Logging and Reporting

- **HTML Logs:** Generates detailed HTML log files with interactive filters for status (Success, Error, Info), folder changes, and file types.
- **Real-Time Updates:** Logs actions such as file moves, renames, backups, and errors in real-time.
- **Accessible Links:** Includes clickable links to file locations and backup paths in the log.

2.6 User Interface

- **Graphical Interface:** Features a dark-themed, intuitive Windows Forms interface with text boxes, buttons, and radio buttons.
- **Progress Feedback:** Displays a progress bar and status updates during operations.
- **Tooltips:** Provides hover-over tooltips for all controls to guide users.

2.7 External Script Support

- **Extensibility:** Allows users to load and execute external PowerShell scripts via the “Tools” menu.
- **Safety:** Ensures only `.ps1` files are loaded to prevent misuse.

3 User Instructions

This section provides step-by-step instructions for using the Music File Organizer.

3.1 System Requirements

- **Operating System:** Windows 7 or later.
- **PowerShell:** Version 5.1 or later.
- **.NET Framework:** Version 4.5 or later.
- **Permissions:** Administrator privileges required (the program will prompt for elevation if needed).

3.2 Installation

1. Save the `MusicFileOrganizer.ps1` script to a directory (e.g., `C:`).
2. Ensure PowerShell execution policy allows running scripts:
 - Open PowerShell as Administrator.
 - Run: `Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned`.
3. Double-click the `.ps1` file or run it via PowerShell: `..ps1`.

3.3 Using the Program

1. **Launch the Program:** Run the script to open the main window, which displays input fields, buttons, and a status bar.

2. **Select Source Directory:**

- Enter the path to the folder containing your music files in the “Source Directory” text box or click “Browse” to select it.
- The text box turns red if empty, indicating a required field.

3. **Select Destination Directory:**

- Enter the path where organized files will be moved in the “Destination Directory” text box or click “Browse”.
- The program creates subfolders for each file type (e.g., **mp3**, **wav**) in this directory.

4. **(Optional) Select Backup Directory:**

- Enter a backup directory path or click “Browse” to create a backup of your files before processing.
- A timestamped backup folder will be created (e.g., **Backup_20250507_143022**).

5. **(Optional) Select Replacements File:**

- Provide a **.txt** file with comma-separated terms to remove from filenames (e.g., **Official Video, Lyrics, HD**).
- If not provided, defaults to removing “Official Video”, “Official Audio”, “Lyrics”, “HD”, “Remix”.

6. **Choose Conflict Resolution:**

- Select one of three options:
 - **Overwrite Existing:** Overwrites existing files or folders.
 - **Skip Existing:** Skips files or folders that already exist.
 - **Prompt:** Prompts for action on each conflict (Overwrite, Keep Both, Skip).

7. **Start Processing:**

- Click “Start” to begin organizing files.
- A dialog will prompt you to save the HTML log file (default name: **MusicFileOrganizer_Log_YYYYMM**).
- The status bar will show “Initializing...” followed by batch progress (e.g., “Processing batch 1 of 3”).
- The progress bar updates to reflect the percentage of files processed.

8. **Monitor Progress:**

- The status bar displays real-time updates (e.g., “Moved: song.mp3 -> C:≡3.mp3”). *Errors are shown in red*.

9. **Stop or Cancel:**

- Click “Stop” to halt the operation.
- The program generates and opens the HTML log file, even if cancelled, if any actions were logged.

10. Review the Log:

- The HTML log opens automatically after completion or cancellation (if logs exist).
- Filter logs by status, folder changes, or file type using dropdown menus.
- Click file paths to open their locations in File Explorer.

11. Exit: Click “Exit” to close the program.

3.4 Using External Scripts

1. Click “Tools” > “Load External Script” in the menu.
2. Select a .ps1 file to execute.
3. The script runs, and results are logged in the status bar and HTML log.

4 Troubleshooting

• Program Stuck on “Ready”:

- Ensure all required fields (Source and Destination) are filled.
- Check the debug log at %TEMP%_Debug.log for errors.
- Verify administrator privileges by running the script as Administrator.

• Log File Not Opening:

- Ensure a valid log file path was selected when prompted.
- Check if any actions were logged (no log is generated if no operations occurred).
- Try opening the log file manually from the saved location (e.g., Desktop).

• Files Not Moving:

- Verify the source directory contains supported audio files (.mp3, .wav, .flac, .aiff).
- Check for file access issues (e.g., files locked by another program).
- Review the HTML log for error details.

• Execution Policy Error:

- Run `Set-ExecutionPolicy -Scope CurrentUser -ExecutionPolicy RemoteSigned` in PowerShell as Administrator.

5 Contact Information

For support, please contact the developer through the official support channel. Check the project website or documentation for the latest contact details.