

Video Organization System

Advanced Video Management and Organization

Production Ready

Version 2.0

Professional Edition

MVidarr Enhanced

Professional Music Video Management System

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Music Video Organization System

Overview

MVidarr Enhanced now includes an automatic video organization system that cleans up downloaded video filenames and organizes them into artist-specific folders.

Features

Filename Cleanup

- Removes quality indicators (4K, 1080p, 720p, etc.)
- Strips platform-specific tags ([YouTube], [Official Video], etc.)
- Eliminates download metadata and timestamps
- Normalizes special characters and Unicode
- Extracts artist and song title from various filename patterns

Automatic Organization

- Creates artist folders in the music videos directory
- Moves and renames videos to clean format: "Artist - Title.ext"
- Handles filename conflicts by adding numbers
- Updates database records when matching artists/videos exist
- Preserves original file extensions

Directory Structure

```
data/music_videos/  
├─ Taylor Swift/  
│   ├─ Taylor Swift - Anti-Hero.mp4  
│   └─ Taylor Swift - Shake It Off.mp4  
├─ The Weeknd/  
│   └─ The Weeknd - Blinding Lights.mkv  
└─ Ed Sheeran/  
    └─ Ed Sheeran - Shape of You.avi
```

Usage

API Endpoints

Get Organization Status

```
GET /api/video-organization/status
```

Returns current status including paths, file counts, and directory info.

Scan Downloads Directory

```
GET /api/video-organization/downloads/scan
```

Returns list of video files awaiting organization.

Organize All Videos

```
POST /api/video-organization/organize-all
```

Processes all videos in downloads directory.

Organize Single Video

```
POST /api/video-organization/organize/{filename}
```

Organizes a specific video file.

Get Artist Directories

```
GET /api/video-organization/artists
```

Returns list of artist directories with video counts.

Preview Organization

```
GET /api/video-organization/preview/{filename}
```

Shows how a file would be organized without moving it.

Cleanup Empty Directories

```
POST /api/video-organization/cleanup
```

Removes empty artist directories.

Command Line Scripts

Interactive Organization

```
# Organize all videos
python3 scripts/organize_videos.py --organize-all

# Organize specific video
python3 scripts/organize_videos.py --organize "video.mp4"

# Show artist directories
python3 scripts/organize_videos.py --show-artists

# Clean up empty directories
python3 scripts/organize_videos.py --cleanup

# Test filename cleanup
python3 scripts/organize_videos.py --test
```

Automated Organization

```
# Run automated organization script
./scripts/auto_organize.sh

# Add to crontab for automatic processing
# Run every 30 minutes:
*/30 * * * * /home/mike/mvidarr/scripts/auto_organize.sh
```

Settings

Music Videos Path

Configure the organized videos directory in Settings:

- **Setting:** `music_videos_path`
- **Default:** `data/music_videos`
- **Description:** Directory where organized videos are stored by artist

Downloads Path

The source directory for videos to organize:

- **Setting:** `downloads_path`
- **Default:** `data/downloads`
- **Description:** Directory where downloads are placed before organization

Supported Filename Patterns

The system can extract artist and title from various filename formats:

Delimiter-Based

- `Artist - Song Title.mp4`
- `Artist | Song Title.mkv`
- `Artist : Song Title.avi`
- `Artist – Song Title.webm` (em dash)

With Metadata

- `Taylor Swift - Anti-Hero [Official Music Video] [4K] (2022).mp4`
- `[Downloaded 2023-12-01] Ed Sheeran - Shape of You (Official).avi`
- `The Weeknd | Blinding Lights (Official Video) [1080p].mkv`

Cleaned Output

All organized videos follow the format: `Artist - Title.ext`

File Extension Support

Supported video formats:

- `.mp4` , `.mkv` , `.avi` , `.mov`
- `.wmv` , `.flv` , `.webm` , `.m4v`

Error Handling

Common Issues

1. **Cannot extract artist/title:** Files with unrecognizable patterns are skipped
2. **Filename conflicts:** Automatic numbering (e.g., "Song (2).mp4")
3. **Permission errors:** Ensure proper directory permissions
4. **Database errors:** Organization continues even if database updates fail

Logging

- Application logs: `data/logs/mvidarr.log`
- Auto-organization logs: `data/logs/auto_organize.log`

Database Integration

When artist and video records exist in the database:

- Updates video record with local file path
- Sets download status to 'completed'
- Updates timestamp for last modification

Best Practices

1. **Regular Organization:** Set up automated processing to keep downloads organized
2. **Monitor Logs:** Check logs for files that couldn't be processed
3. **Backup Important Files:** Ensure important videos are backed up before organization
4. **Test Patterns:** Use preview functionality to verify organization before processing
5. **Clean Downloads:** Regularly clean the downloads directory after organization

Troubleshooting

Videos Not Being Organized

1. Check file extensions are supported
2. Verify filename contains recognizable artist/title pattern
3. Ensure proper permissions on directories
4. Check logs for specific error messages

Database Connection Issues

1. Organization continues without database updates
2. Check database connectivity in main application
3. Files are still moved and organized properly

Path Configuration

1. Verify `music_videos_path` setting is correct
2. Ensure directories exist and are writable
3. Check absolute vs relative path configuration