
Song Kong

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Intro

SongKong is designed to take all the difficulty out of managing your music collection. Simply select the folder of the songs you want to fix and then select **Fix Songs**. SongKong searches online Music Databases to match your songs and updates your songs with the correct information from the databases. There is no limit to how many songs you can fix, you can simply select the root folder of all your songs if you want to fix all in one go.

If SongKong has changed your files and you don't like the results, you can revert changes at any time. All changes are stored in SongKong's internal database so simply start SongKong and select the folder (or sub folder) you modified and select **Undo Changes Made**.

SongKong can also easily find duplicate songs in your collection with the **Delete Duplicate Songs** option.

After every action has completed a detailed report is generated containing details of everything that has been changed.

Fix Songs

SongKong uses a small memory footprint however many files you load it with, and there is no limit on how many songs you can fix, it starts fixing songs immediately it doesn't need to wait for all songs to be loaded.

SongKong integrates closely with **MusicBrainz** and **Discogs**. SongKong is a companion product to the award winning **Jaikoz** and uses similar matching methods to ensure the best possible match. Firstly songs are grouped by folder because SongKong attempts to match groups of songs to releases rather than just match individual songs like some competitors. Then **Acoustid** Fingerprints are created for each song in the group, this allows songs to be matched based on the actual music not just the metadata.

We then compare the group of songs to the MusicBrainz Database using both the Acoustid and the songs metadata and try to find a release that they can all be matched to. If we get a good match we then update the songs metadata such as artist name, song title and catalogue no. in fact SongKong can update over fifty different fields.

If we get a match to a MusicBrainz release it may contain a link to a release on the Discogs from where we can get more metadata. If we don't find a match to MusicBrainz we then try to match the songs to Discogs.

If at this stage we've yet to find a match we try and match individual songs to MusicBrainz

If a match has been found we save the songs, renaming from metadata if the option is enabled. If we still don't find a match it is probable the song doesn't exist in either database and we leave the songs untouched

Fix Songs Basic Options

The majority of customers should need to change options, but there are a number of options to fine-tune the way SongKong works.

Search for a MusicBrainz match even if songs already have a MusicBrainz Id

If enabled SongKong will only try to match songs that have not already been matched to MusicBrainz previously.

Rename files based on metadata when matched

If enabled songs are renamed based on their metadata and the configured rename mask.

Fix Songs Match Options

Options that decide how songs are matched

Use Discogs information if MusicBrainz release links to a Discogs release

When a match is made to a MusicBrainz release the MusicBrainz release may itself contain a link to the equivalent release on Discogs. If this option is enabled we make use of the additional information the Discogs release may have that the MusicBrainz release does not.

Search for a Discogs Release

SongKong can also try and match songs to a Discogs Release even if no match to a MusicBrainz Release was found if this option is enabled.

Preferred media formats

SongKong often finds multiple potential releases that could match a group of songs, if the release is one of your selected media formats then that potential release has their score boosted making it more likely that it is the release that SongKong selects.

Preferred Release Countries

SongKong often finds multiple potential releases that could match a group of songs, if the release was released in one of your preferred countries then that potential release has their score boosted making it more likely that it is the release that SongKong selects.

Fix Songs Artwork Options

Options that decide how SongKong handles matching artwork.

Resize artwork if dimensions larger than (pixels)

High quality artwork can take up a lot of disk space, it is often not necessary to have such high quality artwork embedded into your songs. In fact some song playing apps do not work with artwork that is larger than a particular size.

Ignore artwork smaller than this (pixels)

Sometimes artwork is found of such a low quality and small size that you would rather ignore this artwork.

Max artwork for one release

Controls the maximum pieces of artwork that can be stored with one song.

Fix Songs Format Options

Translate foreign artist names to English where possible

This option can be used to convert artist names containing non Latin characters to Latin script, this is very useful if you can only understand Latin script

Use standard Artist name instead of name displayed on cover

Sometimes a recording artist may use a different name on some of their releases, this can make it harder to manage your collection so if you enable this option then their standard name is always used.

Use standard Track title instead of title displayed on cover

Sometimes a recording is given another name on a different release, to force a consistent name to be used enable this option.

Use standard Release title instead of title displayed on cover

Sometimes a release is given a different name in a different version of the release, to force a consistent name to be used enable this option.

Put Original Year into Year field

SongKong contains a **Year** field and an **Original Year** field. Usually the year field stores the year the date of the release your songs have been matched to, and then for each song the original year contains the date of the first release that each song was released on. But sometimes it is more interesting to know the original year than the year and this is accessible to more applications if it is stored in the original year field.

Add Ep, Single, Compilation, Live and Remix release types to release title

It can be useful to identify when a song had been matched to a single, compilation ecetera rather than the more usual album. By enabling this option the type of the release is added to the release title field, if the release is of type album then this is not added because this is the default.

Multi Disc Releases

The **Disc No** field is very useful in multiple disc releases, for example to distinguish between the first track on disc 1 and the first track on disc 2. But not all applications provide access to this field so it can be useful to add to the release title by setting this option to **Always Add Disc No Information to the release title**. Multi-disc releases sometimes give an actual name to each disc and this can be added to the release title by setting the option to **Add Disc No to the release title if disc has title**. Or you can elect to do nothing special for multi-disc release by setting the option to **Never add Disc No information to the release title**.

Fix Songs File Naming Options

Options that define how files are renamed from metadata.

Replace Non Ascii Characters

If **Replace Non Ascii Characters** is enabled then when renaming a file from the metadata any characters that cannot be encoded using the standard ascii charset is represented by a simplified representation instead, for example an accented character such as é is represented by its unaccented version e.

Move Folder

A common way of managing your songs is to move songs from an unsorted folder to a fixed folder as they are identified. Within SongKong this can be accomplished by setting a **Move Folder**, as songs are matched they are moved from their current folder to the move folder.

Rename Mask

The rename mask defines how files renamed based on their metadata. You can define and modify masks using the **Edit** and **Add** buttons.

Add/Edit Mask

The edit mask can use the full JavaScript Expression language to create a mask, the **Mask Field** list shows all the metadata field that can be used in the mask.

Compilation Rename Mask

It is often useful to store Compilation releases in a different location to Original Album releases. This mask is used when renaming songs that have been identified as being part of a compilation, the is compilation field is set for these fields.

Fix Songs Save Options

Defines options that modify how songs are saved.

MP3 Metatag Version

Mp3s support both **ID3v23** and **ID3v24**. V24 is the latest version of the ID3 Specification and has been available since 2003 but it still is not as widely supported as V23. You can elect to save your mp3s using the version they already have or force save to either V23 or V24.

Track / Disc Number Padding

Most audio formats stores numbers as text, for example **1** can be stored as 1, 01, 001 or 0001. This is useful for sorting songs and is applied to the **Disc No**, **Disc Total**, **Track No** and **Track Total** fields. this field has no effect on the Mp4 files because this format only stores a number.

Save genres in an iTunes-friendly format

In ID3 there is a preconfigured list of 256 genres, if a genre is in this preconfigured list it is stored as a number rather than the text. But iTunes does not understand the complete list of genres so you can force **SongKong** to always write the genre as text if you enable this option.

Musicbrainz Match

If song(s) are matched to a MusicBrainz release there are many fields that can be added to your song from the matching MusicBrainz Release.

The following fields are always available for a matching MusicBrainz release:

Table 1.

Field name

Album
Album Artist
Album Artist Sort Order
Album Sort Order
Artist
Artist Sort Order
Artists
Disc Number
MusicBrainz Artist Id
MusicBrainz Release Artist Id
MusicBrainz Release Group Id
MusicBrainz Release Id
MusicBrainz Track Id
Release Status
Release Type
Title
Total Discs
Total Tracks
Track Number

These fields maybe available from the matching release

Attribute

AcoustId Fingerprint
AcoustId Id
Arranger
ASIN
Barcode
BPM
Catalog Number
Comment

Attribute

Compilation
Composer
Composer Sort Order
Conductor
Copyright
Country
Cover Art
Date
Discogs Artist Site Url
Discogs Release Site Url
DJ Mixer
Engineer
Genre
Grouping
ISRC
Label
Language
Lyricist
Media
Mixer
Mood
MusicBrainz Original Release Id
MusicBrainz Work Id
Official Artist Site Url
Official Release Site Url
Original Album
Original Artist
Original Lyricist
Podcast URL
Producer
Release Country
Remixer
Script
Tags
Wikipedia Artist Site Url
Wikipedia Release Site Url

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Discogs Matching

If song(s) are matched to a Discogs release either directly or via a MusicBrainz release there are many fields that can be added to your song from the matching Discogs Release.

The following fields are always available for a matching Discogs release:

Table 2.**Field name**

Album
Album Artist
Artist
Artists
Disc Number
Discogs Artist Site Url
Discogs Release Site Url
Release Type
Title
Total Discs
Total Tracks
Track Number

These fields maybe available from the matching release

Field name

Arranger
Barcode
BPM
Catalog Number
Comment
Compilation
Composer
Conductor
Copyright
Country
Cover Art
Date
DJ Mixer
Engineer
Genre
Grouping
ISRC
Label
Language
Lyricist
Media
Mixer
Official Artist Site Url
Official Release Site Url
Producer
Release Country

Field name

Remixer

Script

Wikipedia Artist Site Url

Wikipedia Release Site Url

Fix Songs Report

Once matching has completed (or if you elect to cancel) a report is generated that you can open in your browser. Firstly for all the songs processed it groups them by the Musicbrainz Releases that they match to, it then does the same for Discogs releases. Finally it shows what has actually been modified in each and every file that has changed.

Delete Duplicate Songs

SongKong can identify duplicate songs in your collection. By default songs are considered duplicates if they have the same acoustid fingerprint, and have been matched to the same song on the same MusicBrainz release but you can modify the duplication criteria.

Delete Duplicate Songs Options

Options that control how SongKong find duplicate songs and what to do if it does find them.

Song is a Duplicate If has same

Every option checked increases the number of things that have to be the same for a duplicate to be found, reducing the chances of a duplicate being found. A duplicate **MB Recording Id** means two songs match to the same recording in MusicBrainz and a duplicate **MB Release Id** means two songs match to the same release id, so if both these options are enabled it means a duplicate must have matched the same recording on the same release (unless a release contains the same recording twice). A duplicate **AcoustId** means that the audio fingerprint of two songs is the same, they are sonically the same (or at least extremely similar).

When you have duplicate songs

When duplicate songs are found one is kept and the remainder are either deleted or move to the specified **Duplicates folder**.

Duplicates folder

The folder that duplicates should be moved to if configured to move duplicates instead of delete them.

Undo Changes Made

The first time you use SongKong with a song the songs details are recorded in the songs database. This means that at a later date you can use **Undo Changes Made** to revert your song details back to what they were before they had been modified by SongKong. This gives you the confidence to let SongKong do its thing.

Empty Database

The SongKong database contains:

- Details of every file loaded into SongKong

- Details of changes made to songs by SongKong
- Cached copies of releases and artists downloaded from MusicBrainz and Discogs

From time to time you may want to clear out the database, reasons could be:

- To reclaim hard drive space
- To force SongKong to retrieve new versions of data from MusicBrainz and Discogs
- To delete changes history, so future undo changes will only undo up to this point.

Preferences

Language

This defaults to your computers locale, but you can select from over 15 languages that SongKong has been translated into. You'll need to restart SongKong after changing the language.

Table 3.

Supported Languages

Danish
Dutch
English
Finnish
French
German
Greek
Hindi
Italian
Norwegian
Polish
Portuguese
Romanian
Russian
Spanish
Swedish

Debug Log Level

SongKong creates a log file recording information about what it is doing, how much information is recorded depends on the value of this option. If you are having a problem with SongKong then support may request that you increase the log level to aid in resolving the problem.

Debug IO Log Level

SongKong also records information about what is transferred between your songs and SongKong when opening and saving changes to your song files, how much information is recorded depends on the value of this option. If you are having a problem with SongKong then support may request that you increase the log level to aid in resolving the problem.

Field Mapping

The table shows how SongKong fields are mapped to the underlying field for the different song formats supported by SongKong.

Attribute	ID3v23	ID3v24
AcoustId Fingerprint	TXXX:Acoustid Fingerprint	TXXX:Acoustid Fingerprint
AcoustId Id	TXXX:Acoustid Id	TXXX:Acoustid Id
Album	TALB	TALB
Album Artist	TPE2	TPE2
Album Artist Sort Order	TSO2	TSO2
Album Sort Order	TSOA	TSOA
Arranger	TIPL:arranger	TIPL:arranger
Artist	TPE1	TPE1
Artist Sort Order	TSOP	TSOP
Artists	TXXX:Artists	TXXX:Artists
ASIN	TXXX:ASIN	TXXX:ASIN
Barcode	TXXX:BARCODE	TXXX:BARCODE
BPM	TBPM	TBPM
Catalog Number	TXXX:CATALOGNUMBER	TXXX:CATALOGNUMBER
Comment	COMM:description	COMM:description
Compilation	TCMP	TCMP
Composer	TCOM	TCOM
Composer Sort Order	TSOC	TSOC
Conductor	TPE3	TPE3
Copyright	TCOP	TCOP
Country	TXXX:Country	TXXX:Country
Cover Art	APIC	APIC
Date	TYER+TDAT	TDRC
Disc Number	TPOS	TPOS
Disc Subtitle	TSST	TSST
Discogs Artist Site Url	WXXX:DISCOGS_ARTIST	WXXX:DISCOGS_ARTIST
Discogs Release Site Url	WXXX:DISCOGS_RELEASE	WXXX:DISCOGS_RELEASE
DJ Mixer	TIPL:DJ-mix	TIPL:DJ-mix
Encoded By	TENC	TENC
Engineer	TIPL:engineer	TIPL:engineer
Genre	TCON	TCON
ISRC	TSRC	TSRC
Label	TPUB	TPUB
Language	TLAN	TLAN
Lyricist	TEXT	TEXT
Media	TMED	TMED
Mixer	TIPL:mix	TIPL:mix
MusicBrainz Artist Id	TXXX:MusicBrainz Artist Id	TXXX:MusicBrainz Artist Id

Attribute	ID3v23	ID3v24
MusicBrainz Disc Id	TXXX:MusicBrainz Disc Id	TXXX:MusicBrainz Disc Id
MusicBrainz Original Release Id	TXXX:MusicBrainz Original Album Id	TXXX:MusicBrainz Original Album Id
MusicBrainz Release Artist Id	TXXX:MusicBrainz Album Artist Id	TXXX:MusicBrainz Album Artist Id
MusicBrainz Release Group Id	TXXX:MusicBrainz Release Group Id	TXXX:MusicBrainz Release Group Id
MusicBrainz Release Id	TXXX:MusicBrainz Album Id	TXXX:MusicBrainz Album Id
MusicBrainz Track Id	UFID:http://musicbrainz.org	UFID:http://musicbrainz.org
MusicBrainz Work Id	TXXX:MusicBrainz Work Id	TXXX:MusicBrainz Work Id
Official Artist Site Url	WOAR	WOAR
Official Release Site Url	WXXX:OFFICIAL_RELEASE	WXXX:OFFICIAL_RELEASE
Original Album	TOAL	TOAL
Original Artist	TOPE	TOPE
Original Lyricist	TEXT	TEXT
Original Release Date	TORY	TDOR
Producer	TIPL:producer	TIPL:producer
Release Country	TXXX:MusicBrainz Album Release Country	TXXX:MusicBrainz Album Release Country
Release Status	TXXX:MusicBrainz Album Status	TXXX:MusicBrainz Album Status
Release Type	TXXX:MusicBrainz Album Type	TXXX:MusicBrainz Album Type
Remixer	TPE4	TPE4
Script	TXXX:Script	TXXX:Script
Subtitle	TIT3	TIT3
Tags	TXXX:Tags	TXXX:Tags
Title	TIT2	TIT2
Title Sort Order	TSOT	TSOT
Total Discs	TPOS	TPOS
Total Tracks	TRCK	TRCK
Track Number	TRCK	TRCK
Wikipedia Artist Site Url	WXXX:WIKIPEDIA_ARTIST	WXXX:WIKIPEDIA_ARTIST
Wikipedia Release Site Url	WXXX:WIKIPEDIA_RELEASE	WXXX:WIKIPEDIA_RELEASE

Command Line

SongKong is a desktop application but can also be run as a command line application by starting it with an option and a folder, options are as follows:

Fix songs in folderSongKong -m folder

Delete duplicates in folderSongKong -d folder

Undo changes in folderSongKong -r folder