Matroska Tags
draft-ietf-cellar-tags-00

Abstract

   This document defines the Matroska tags, namely the tag names and
   their respective semantic meaning.

Status of This Memo

   This Internet-Draft is submitted in full conformance with the
   provisions of BCP 78 and BCP 79.

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   Task Force (IETF). Note that other groups may also distribute
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   and may be updated, replaced, or obsoleted by other documents at any
   time. It is inappropriate to use Internet-Drafts as reference
   material or to cite them other than as "work in progress."

   This Internet-Draft will expire on January 18, 2019.

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1. Introduction

   Matroska aims to become THE standard of multimedia container formats.
   It can store timestamped multimedia data but also chapters and tags.
   The "Tag Elements" add important metadata to identify and classify
   the information found in a "Matroska Segment". It can tag a whole
   "Segment", separate "Track Elements", individual "Chapter Elements"
   or "Attachment Elements".

   While the Matroska tagging framework allows anyone to create their
   own custom tags, it's important to have a common set of values for
   interoperability. This document intends to define a set of common
   tag names used in Matroska.

[2](#). **Status of this document**

   This document is a work-in-progress specification defining the
   Matroska file format as part of the IETF Cellar working group [[1](#)].
   It uses basic elements and concepts already defined in the Matroska
   specifications defined by this workgroup.

[3](#). **Security Considerations**

   "Tag" values can be either strings or binary blobs. This document
   inherits security considerations from the EBML and Matroska
   documents.

[4](#). **IANA Considerations**

   To be determined.

[5](#). **Notations and Conventions**

   The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT",
   "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this
   document are to be interpreted as described in [RFC 2119](#) [[2](#)].

[6](#). **Tagging**

   When a Tag is nested within another Tag, the nested Tag becomes an
   attribute of the base tag. For instance, if you wanted to store the
   dates that a singer used certain addresses for, that singer being the
   lead singer for a track that included multiple bands simultaneously,
   then your tag tree would look something like this:

   o Targets

      * TrackUID

   o BAND

      * LEADPERFORMER

      * ADDRESS

         + DATE

         + DATEEND

      * ADDRESS

         + DATE

In this way, it becomes possible to store any Tag as attributes of
another tag.

Multiple items SHOULD never be stored as a list in a single
TagString. If there is more than one tag of a certain type to be
stored, then more than one SimpleTag SHOULD be used.

For authoring Tags outside of EBML, the following XML syntax is
proposed [3] used in mkvmerge [4]. Binary data SHOULD be stored
using BASE64 encoding if it is being stored at authoring time.

6.1. Why official tags matter

There is a debate between people who think all tags SHOULD be free
and those who think all tags SHOULD be strict. If you look at this
page you will realise we are in between.

Advanced-users application might let you put any tag in your file.
But for the rest of the applications, they usually give you a basic
list of tags you can use. Both have their needs. But it's usually a
bad idea to use custom/exotic tags because you will probably be the
only person to use this information even though everyone else could
benefit from it. So hopefully when someone wants to put information
in one's file, they will find an official one that fit them and
hopefully use it ! If it's not in the list, this person can contact
us any time for addition of such a missing tag. But it doesn't mean
it will be accepted... Matroska files are not meant the become a
whole database of people who made costumes for a film. A website
would be better for that... It's hard to define what SHOULD be in and
what doesn't make sense in a file. So we'll treat each request
carefully.

We also need an official list simply for developers to be able to
display relevant information in their own design (if they choose to
support a list of meta-information they SHOULD know which tag has the
wanted meaning so that other apps could understand the same meaning).

6.2. Tag translations

To be able to save tags from other systems to Matroska we need to
translate them to our system. There is a translation table on our
site [5].

6.3. Tag Formatting

o The TagName SHOULD always be written in all capital letters and
   contain no space.

o The fields with dates SHOULD have the following format: YYYY-MM-DD
   hh:mm:ss.mss YYYY = Year, MM = Month, DD = Days, HH = Hours, mm =
   Minutes, ss = Seconds, mss = Milliseconds. To store less
   accuracy, you remove items starting from the right. To store only
   the year, you would use, "2004". To store a specific day such as
   May 1st, 2003, you would use "2003-05-01".

o Fields that require a Float SHOULD use the "." mark instead of the
   "," mark. To display it differently for another local,
   applications SHOULD support auto replacement on display. Also, a
   thousandths separator SHOULD NOT be used.

o For currency amounts, there SHOULD only be a numeric value in the
   Tag. Only numbers, no letters or symbols other than ".". For
   instance, you would store "15.59" instead of "$15.59USD".

6.4. Target types

The TargetType element allows tagging of different parts that are
inside or outside a given file. For example in an audio file with
one song you could have information about the album it comes from and
even the CD set even if it's not found in the file.

For application to know what kind of information (like TITLE) relates
to a certain level (CD title or track title), we also need a set of
official TargetType names. For now audio and video will have
different values & names. That also means the same tag name can have
different meanings depending on where it is (otherwise we would end
up with 15 TITLE_ tags).

TargetTypeValue	Audio strings	Video strings	Comment
70	COLLECTION	COLLECTION	the high hierarchy consisting of many different lower items
60	EDITION / ISSUE / VOLUME / OPUS	SEASON / SEQUEL / VOLUME	a list of lower levels grouped together
50	ALBUM / OPERA / CONCERT	MOVIE / EPISODE / CONCERT	the most common grouping level of music and video (equals to an episode for TV series)
40	PART / SESSION	PART / SESSION	when an album or episode has different logical parts
30	TRACK / SONG	CHAPTER	the common parts of an album or a movie
20	SUBTRACK / PART / MOVEMENT	SCENE	corresponds to parts of a track for audio (like a movement)
10	-	SHOT	the lowest hierarchy found in music or movies

An upper level value tag applies to the lower level. That means if a CD has the same artist for all tracks, you just need to set the ARTIST tag at level 50 (ALBUM) and not to each TRACK (but you can). That also means that if some parts of the CD have no known ARTIST the value MUST be set to nothing (a void string "").

When a level doesn't exist it MUST NOT be specified in the files, so that the TOTAL_PARTS and PART_NUMBER elements match the same levels.

Here is an example of how these "organizational" tags work: If you set 10 TOTAL_PARTS to the ALBUM level (40) it means the album contains 10 lower parts. The lower part in question is the first lower level that is specified in the file. So if it's TRACK (30) then that means it contains 10 tracks. If it's MOVEMENT (20) that means it's 10 movements, etc.

6.5. Official tags

   The following is a complete list of the supported Matroska Tags.
   While it is possible to use Tag names that are not listed below, this
   is not recommended as compatibility will be compromised. If you find
   that there is a Tag missing that you would like to use, then please
   contact the Matroska team for its inclusion in the specifications
   before the format reaches 1.0.

6.6. Nesting Information

   Nesting Information tags are intended to contain other tags.

```
+----------+-------+---------------------------------------------+
| Tag Name | Type  | Description                                 |
+----------+-------+---------------------------------------------+
| ORIGINAL | -     | A special tag that is meant to have other tags |
|          |       | inside (using nested tags) to describe the  |
|          |       | original work of art that this item is based |
|          |       | on. All tags in this list can be used "under" |
|          |       | the ORIGINAL tag like LYRICIST, PERFORMER,  |
|          |       | etc.                                        |
| SAMPLE   | -     | A tag that contains other tags to describe a |
|          |       | sample used in the targeted item taken from |
|          |       | another work of art. All tags in this list can |
|          |       | be used "under" the SAMPLE tag like TITLE,  |
|          |       | ARTIST, DATE_RELEASED, etc.                 |
| COUNTRY  | UTF-8 | The name of the country (biblio ISO-639-2 [6]) |
|          |       | that is meant to have other tags inside (using |
|          |       | nested tags) to country specific information |
|          |       | about the item. All tags in this list can be |
|          |       | used "under" the COUNTRY_SPECIFIC tag like  |
|          |       | LABEL, PUBLISH_RATING, etc.                 |
+----------+-------+---------------------------------------------+
```

6.7. Organization Information

```
+-------------+-------+---------------------------------------------+
| Tag Name    | Type  | Description                                 |
+-------------+-------+---------------------------------------------+
| TOTAL_PARTS | UTF-8 | Total number of parts defined at the first  |
|             |       | lower level. (e.g. if TargetType is ALBUM,  |
|             |       | the total number of tracks of an audio CD)  |
| PART_NUMBER | UTF-8 | Number of the current part of the current   |
|             |       | level. (e.g. if TargetType is TRACK, the    |
|             |       | track number of an audio CD)                |
| PART_OFFSET | UTF-8 | A number to add to PART_NUMBER when the     |
|             |       | parts at that level don't start at 1. (e.g. |
|             |       | if TargetType is TRACK, the track number of |
|             |       | the second audio CD)                        |
+-------------+-------+---------------------------------------------+
```

[6.8](#). Titles

```
+----------+-------+--------------------------------------------------+
| Tag Name | Type  | Description                                      |
+----------+-------+--------------------------------------------------+
| TITLE    | UTF-8 | The title of this item. For example, for music   |
|          |       | you might label this "Canon in D", or for        |
|          |       | video's audio track you might use "English       |
|          |       | 5.1" This is akin to the TIT2 tag in ID3.        |
| SUBTITLE | UTF-8 | Sub Title of the entity.                         |
+----------+-------+--------------------------------------------------+
```

[6.9](#). Nested Information

Nested Information includes tags contained in other tags.

```
+-------------+-------+---------------------------------------------+
| Tag Name    | Type  | Description                                 |
+-------------+-------+---------------------------------------------+
| URL         | UTF-8 | URL corresponding to the tag it's included  |
|             |       | in.                                         |
| SORT_WITH   | UTF-8 | A child element to indicate what            |
|             |       | alternative value the parent tag can have   |
|             |       | to be sorted, for example "Pet Shop Boys"   |
|             |       | instead of "The Pet Shop Boys". Or "Marley  |
|             |       | Bob" and "Marley Ziggy" (no comma needed).  |
| INSTRUMENTS | UTF-8 | The instruments that are being used/played, |
|             |       | separated by a comma. It SHOULD be a child  |
|             |       | of the following tags: ARTIST,              |
|             |       | LEAD_PERFORMER or ACCOMPANIMENT.            |
| EMAIL       | UTF-8 | Email corresponding to the tag it's         |
|             |       | included in.                                |
| ADDRESS     | UTF-8 | The physical address of the entity. The     |
|             |       | address SHOULD include a country code. It   |
|             |       | can be useful for a recording label.        |
| FAX         | UTF-8 | The fax number corresponding to the tag     |
|             |       | it's included in. It can be useful for a    |
|             |       | recording label.                            |
| PHONE       | UTF-8 | The phone number corresponding to the tag   |
|             |       | it's included in. It can be useful for a    |
|             |       | recording label.                            |
+-------------+-------+---------------------------------------------+
```

6.10. Entities

```
+----------------------+-------+----------------------------------+
| Tag Name             | Type  | Description                      |
+----------------------+-------+----------------------------------+
| ARTIST               | UTF-8 | A person or band/collective      |
|                      |       | generally considered responsible |
|                      |       | for the work. This is akin to the|
|                      |       | TPE1 tag in ID3 [7].             |
| LEAD_PERFORMER       | UTF-8 | Lead Performer/Soloist(s). This  |
|                      |       | can sometimes be the same as     |
|                      |       | ARTIST.                          |
| ACCOMPANIMENT        | UTF-8 | Band/orchestra/accompaniment/music|
|                      |       | ian. This is akin to the TPE2 tag|
|                      |       | in ID3 [8].                      |
| COMPOSER             | UTF-8 | The name of the composer of this |
|                      |       | item. This is akin to the TCOM tag|
|                      |       | in ID3 [9].                      |
| ARRANGER             | UTF-8 | The person who arranged the piece,|
|                      |       | e.g., Ravel.                     |
| LYRICS               | UTF-8 | The lyrics corresponding to a song|
```

			(in case audio synchronization is not known or as a doublon to a subtitle track). Editing this value when subtitles are found SHOULD also result in editing the subtitle track for more consistency.
LYRICIST	UTF-8	The person who wrote the lyrics for a musical item. This is akin to the TEXT [10] tag in ID3.
CONDUCTOR	UTF-8	Conductor/performer refinement. This is akin to the TPE3 [11].
DIRECTOR	UTF-8	This is akin to the IART tag in RIFF [12].
ASSISTANT_DIRECTOR	UTF-8	The name of the assistant director.
DIRECTOR_OF_PHOTOGRAPHY	UTF-8	The name of the director of photography, also known as cinematographer. This is akin to the ICNM tag in Extended RIFF.
SOUND_ENGINEER	UTF-8	The name of the sound engineer or sound recordist.
ART_DIRECTOR	UTF-8	The person who oversees the artists and craftspeople who build the sets.
PRODUCTION_DESIGNER	UTF-8	Artist responsible for designing the overall visual appearance of a movie.
CHOREGRAPHER	UTF-8	The name of the choregrapher
COSTUME_DESIGNER	UTF-8	The name of the costume designer
ACTOR	UTF-8	An actor or actress playing a role in this movie. This is the person's real name, not the character's name the person is playing.
CHARACTER	UTF-8	The name of the character an actor or actress plays in this movie. This SHOULD be a sub-tag of an "ACTOR" tag in order not to cause ambiguities.
WRITTEN_BY	UTF-8	The author of the story or script (used for movies and TV shows).
SCREENPLAY_BY	UTF-8	The author of the screenplay or scenario (used for movies and TV shows).
EDITED_BY	UTF-8	This is akin to the IEDT tag in Extended RIFF.
PRODUCER	UTF-8	Produced by. This is akin to the

		IPRO tag in Extended RIFF.
COPRODUCER	UTF-8	The name of a co-producer.
EXECUTIVE_PRODUCER	UTF-8	The name of an executive producer.
DISTRIBUTED_BY	UTF-8	This is akin to the IDST tag in Extended RIFF.
MASTERED_BY	UTF-8	The engineer who mastered the content for a physical medium or for digital distribution.
ENCODED_BY	UTF-8	This is akin to the TENC tag [13] in ID3.
MIXED_BY	UTF-8	DJ mix by the artist specified
REMIXED_BY	UTF-8	Interpreted, remixed, or otherwise modified by. This is akin to the TPE4 tag in ID3 [14].
PRODUCTION_STUDIO	UTF-8	This is akin to the ISTD tag in Extended RIFF.
THANKS_TO	UTF-8	A very general tag for everyone else that wants to be listed.
PUBLISHER	UTF-8	This is akin to the TPUB tag in ID3 [15].
LABEL	UTF-8	The record label or imprint on the disc.

6.11. Search and Classification

Tag Name	Type	Description
GENRE	UTF-8	The main genre (classical, ambient-house, synthpop, sci-fi, drama, etc). The format follows the infamous TCON tag in ID3.
MOOD	UTF-8	Intended to reflect the mood of the item with a few keywords, e.g. "Romantic", "Sad" or "Uplifting". The format follows that of the TMOO tag in ID3.
ORIGINAL_MEDIA_TYPE	UTF-8	Describes the original type of the media, such as, "DVD", "CD", "computer image," "drawing," "lithograph," and so forth. This is akin to the TMED tag in ID3 [16].
CONTENT_TYPE	UTF-8	The type of the item. e.g. Documentary, Feature Film, Cartoon, Music Video, Music, Sound FX, ...
SUBJECT	UTF-8	Describes the topic of the file, such as "Aerial view of Seattle."
DESCRIPTION	UTF-8	A short description of the content, such as "Two birds flying."
KEYWORDS	UTF-8	Keywords to the item separated by a comma, used for searching.
SUMMARY	UTF-8	A plot outline or a summary of the story.
SYNOPSIS	UTF-8	A description of the story line of the item.
INITIAL_KEY	UTF-8	The initial key that a musical track starts in. The format is identical to ID3.
PERIOD	UTF-8	Describes the period that the piece is from or about. For example, "Renaissance".
LAW_RATING	UTF-8	Depending on the "COUNTRY" it's the format of the rating of a movie (P, R, X in the USA, an age in other countries or a URI defining a logo).
ICRA	binary	The ICRA [17] content rating for parental control. (Previously RSACi)

6.12. Temporal Information

```
+----------------+-------+------------------------------------------+
| Tag Name       | Type  | Description                              |
+----------------+-------+------------------------------------------+
| DATE_RELEASED  | UTF-8 | The time that the item was originally    |
|                |       | released. This is akin to the TDRL tag   |
|                |       | in ID3.                                  |
| DATE_RECORDED  | UTF-8 | The time that the recording began. This  |
|                |       | is akin to the TDRC tag in ID3.          |
| DATE_ENCODED   | UTF-8 | The time that the encoding of this item  |
|                |       | was completed began. This is akin to the |
|                |       | TDEN tag in ID3.                         |
| DATE_TAGGED    | UTF-8 | The time that the tags were done for     |
|                |       | this item. This is akin to the TDTG tag  |
|                |       | in ID3.                                  |
| DATE_DIGITIZED | UTF-8 | The time that the item was transferred   |
|                |       | to a digital medium. This is akin to the |
|                |       | IDIT tag in RIFF.                        |
| DATE_WRITTEN   | UTF-8 | The time that the writing of the         |
|                |       | music/script began.                      |
| DATE_PURCHASED | UTF-8 | Information on when the file was          |
|                |       | purchased (see also Section 6.17).       |
+----------------+-------+------------------------------------------+
```

6.13. Spacial Information

```
+----------------------+-------+-----------------------------------+
| Tag Name             | Type  | Description                       |
+----------------------+-------+-----------------------------------+
| RECORDING_LOCATION   | UTF-8 | The location where the item was   |
|                      |       | recorded. The countries           |
|                      |       | corresponding to the string, same |
|                      |       | 2 octets as in Internet domains   |
|                      |       | [18], or possibly ISO-3166 [19].  |
|                      |       | This code is followed by a comma, |
|                      |       | then more detailed information    |
|                      |       | such as state/province, another   |
|                      |       | comma, and then city. For example,|
|                      |       | "US, Texas, Austin". This will    |
|                      |       | allow for easy sorting. It is okay|
|                      |       | to only store the country, or the |
|                      |       | country and the state/province.   |
|                      |       | More detailed information can be  |
|                      |       | added after the city through the  |
|                      |       | use of additional commas. In cases|
|                      |       | where the province/state is       |
|                      |       | unknown, but you want to store the|
```

		city, simply leave a space between
		the two commas. For example, "US,
		, Austin".
COMPOSITION_LOCATION	UTF-8	Location that the item was
		originally designed/written. The
		countries corresponding to the
		string, same 2 octets as in
		Internet domains [20], or possibly
		ISO-3166 [21]. This code is
		followed by a comma, then more
		detailed information such as
		state/province, another comma, and
		then city. For example, "US,
		Texas, Austin". This will allow
		for easy sorting. It is okay to
		only store the country, or the
		country and the state/province.
		More detailed information can be
		added after the city through the
		use of additional commas. In cases
		where the province/state is
		unknown, but you want to store the
		city, simply leave a space between
		the two commas. For example, "US,
		, Austin".
COMPOSER_NATIONALITY	UTF-8	Nationality of the main composer
		of the item, mostly for classical
		music. The countries corresponding
		to the string, same 2 octets as in
		Internet domains [22], or possibly
		ISO-3166 [23].

6.14. Personal

```
+--------------+-------+-------------------------------------------+
| Tag Name     | Type  | Description                               |
+--------------+-------+-------------------------------------------+
| COMMENT      | UTF-8 | Any comment related to the content.       |
| PLAY_COUNTER | UTF-8 | The number of time the item has been      |
|              |       | played.                                   |
| RATING       | UTF-8 | A numeric value defining how much a person|
|              |       | likes the song/movie. The number is       |
|              |       | between 0 and 5 with decimal values       |
|              |       | possible (e.g. 2.7), 5(.0) being the      |
|              |       | highest possible rating. Other rating     |
|              |       | systems with different ranges will have to|
|              |       | be scaled.                                |
+--------------+-------+-------------------------------------------+
```

6.15. Technical Information

Tag Name	Type	Description
ENCODER	UTF-8	The software or hardware used to encode this item. ("LAME" or "XviD")
ENCODER_SETTINGS	UTF-8	A list of the settings used for encoding this item. No specific format.
BPS	UTF-8	The average bits per second of the specified item. This is only the data in the Blocks, and excludes headers and any container overhead.
FPS	UTF-8	The average frames per second of the specified item. This is typically the average number of Blocks per second. In the event that lacing is used, each laced chunk is to be counted as a separate frame.
BPM	UTF-8	Average number of beats per minute in the complete target (e.g. a chapter). Usually a decimal number.
MEASURE	UTF-8	In music, a measure is a unit of time in Western music like "4/4". It represents a regular grouping of beats, a meter, as indicated in musical notation by the time signature.. The majority of the contemporary rock and pop music you hear on the radio these days is written in the 4/4 time signature.
TUNING	UTF-8	It is saved as a frequency in hertz to allow near-perfect tuning of instruments to the same tone as the musical piece (e.g. "441.34" in Hertz). The default value is 440.0 Hz.
REPLAYGAIN_GAIN	binary	The gain to apply to reach 89dB SPL on playback. This is based on the Replay Gain standard [24]. Note that ReplayGain information can be found at all TargetType levels (track, album, etc).
REPLAYGAIN_PEAK	binary	The maximum absolute peak value of the item. This is based on the Replay Gain standard [25].

6.16. Identifiers

```
+----------------+--------+------------------------------------------+
| Tag Name       | Type   | Description                              |
+----------------+--------+------------------------------------------+
| ISRC           | UTF-8  | The International Standard Recording      |
|                |        | Code [26], excluding the "ISRC" prefix    |
|                |        | and including hyphens.                    |
| MCDI           | binary | This is a binary dump of the TOC of the  |
|                |        | CDROM that this item was taken from.     |
|                |        | This holds the same information as the   |
|                |        | MCDI in ID3.                             |
| ISBN           | UTF-8  | International Standard Book Number [27]  |
| BARCODE        | UTF-8  | EAN-13 [28] (European Article            |
|                |        | Numbering) or UPC-A [29] (Universal      |
|                |        | Product Code) bar code identifier        |
| CATALOG_NUMBER | UTF-8  | A label-specific string used to          |
|                |        | identify the release (TIC 01 for         |
|                |        | example).                                |
| LABEL_CODE     | UTF-8  | A 4-digit or 5-digit number to identify  |
|                |        | the record label, typically printed as   |
|                |        | (LC) xxxx or (LC) 0xxxx on CDs medias    |
|                |        | or covers (only the number is stored).   |
| LCCN           | UTF-8  | Library of Congress Control Number [30]  |
+----------------+--------+------------------------------------------+
```

6.17. Commercial

```
+-------------------+-------+--------------------------------------+
| Tag Name          | Type  | Description                          |
+-------------------+-------+--------------------------------------+
| PURCHASE_ITEM     | UTF-8 | URL to purchase this file. This is   |
|                   |       | akin to the WPAY tag in ID3.         |
| PURCHASE_INFO     | UTF-8 | Information on where to purchase this |
|                   |       | album. This is akin to the WCOM tag  |
|                   |       | in ID3.                              |
| PURCHASE_OWNER    | UTF-8 | Information on the person who        |
|                   |       | purchased the file. This is akin to  |
|                   |       | the TOWN tag in ID3 [31].            |
| PURCHASE_PRICE    | UTF-8 | The amount paid for entity. There    |
|                   |       | SHOULD only be a numeric value in    |
|                   |       | here. Only numbers, no letters or    |
|                   |       | symbols other than ".". For instance,|
|                   |       | you would store "15.59" instead of   |
|                   |       | "$15.59USD".                         |
| PURCHASE_CURRENCY | UTF-8 | The currency type used to pay for the|
|                   |       | entity. Use ISO-4217 [32] for the 3  |
|                   |       | letter currency code.                |
+-------------------+-------+--------------------------------------+
```

6.18. Legal

```
+----------------------+-------+------------------------------------+
| Tag Name             | Type  | Description                        |
+----------------------+-------+------------------------------------+
| COPYRIGHT            | UTF-8 | The copyright information as per    |
|                      |       | the copyright holder. This is akin |
|                      |       | to the TCOP tag in ID3.            |
| PRODUCTION_COPYRIGHT | UTF-8 | The copyright information as per    |
|                      |       | the production copyright holder.   |
|                      |       | This is akin to the TPRO tag in    |
|                      |       | ID3.                               |
| LICENSE              | UTF-8 | The license applied to the content |
|                      |       | (like Creative Commons variants).  |
| TERMS_OF_USE         | UTF-8 | The terms of use for this item.    |
|                      |       | This is akin to the USER tag in    |
|                      |       | ID3.                               |
+----------------------+-------+------------------------------------+
```

6.19. Notes

o In the Target list, a logical OR is applied on all tracks, a
   logical OR is applied on all chapters. Then a logical AND is
   applied between the Tracks list and the Chapters list to know if
   an element belongs to this Target.

7. References

7.1. URIs

   [1] https://datatracker.ietf.org/wg/cellar/charter/

   [2] https://tools.ietf.org/html/rfc2119

   [3] http://www.matroska.org/files/tags/matroskatags.dtd

   [4] http://www.bunkus.org/videotools/mkvtoolnix/doc/
        mkvmerge.html#mkvmerge.tags

   [5] othertagsystems/comparetable.html

   [6] http://lcweb.loc.gov/standards/iso639-2/englangn.html#two

   [7] http://id3.org/id3v2.3.0#TPE1

   [8] http://id3.org/id3v2.3.0#TPE2

   [9] http://id3.org/id3v2.3.0#TCOM

   [10] http://id3.org/id3v2.3.0#TEXT

   [11] http://id3.org/id3v2.3.0#TPE3

   [12] http://www.sno.phy.queensu.ca/~phil/exiftool/TagNames/RIFF.html

   [13] http://id3.org/id3v2.3.0#TENC

   [14] http://id3.org/id3v2.3.0#TPE4

   [15] http://id3.org/id3v2.3.0#TPUB

   [16] http://id3.org/id3v2.3.0#TMED

   [17] http://www.icra.org/

   [18] http://www.iana.org/cctld/cctld-whois.htm

   [19] http://www.iso.org/iso/country_codes

   [20] http://www.iana.org/cctld/cctld-whois.htm

   [21] http://www.iso.org/iso/country_codes

   [22] http://www.iana.org/cctld/cctld-whois.htm

   [23] http://www.iso.org/iso/country_codes

   [24] http://www.replaygain.org/

   [25] http://www.replaygain.org/

   [26] http://www.ifpi.org/isrc/isrc_handbook.html#Heading198

   [27] http://www.isbn-international.org/

   [28] http://www.ean-int.org/

   [29] http://www.uc-council.org/

   [30] http://www.loc.gov/marc/lccn.html

   [31] http://id3.org/id3v2.3.0#TOWN

   [32] http://www.xe.com/iso4217.htm

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