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# iTunes Package Music Specification 4.3



2010-02-04



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# Introduction

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## Overview

This document specifies the iTunes Package format for delivering music album content to the iTunes Store.

An iTunes Package is a directory that contains the data necessary to describe a product: individual audio files, album artwork, and the metadata describing how to put it all together. Each package represents a single audio or music video product within the iTunes Store.

For questions regarding other kinds of content, such as television or film, contact your iTunes Technical Representative.

**Note:** The previous version of the Music Profile Specification was 4.1; this version is 4.3. A 4.2 version of the specification was not released.

## Changes Made in this Release

Date/Version	Changes Made
February 3, 2010- Version 4.3	Changed Health & Fitness genre to Fitness & Workout. Added the Anime genre. Corrected capitalization of genres. Corrected typo in version number. Music video cover art can be updated. Clarified that the video asset source is required for an initial delivery. Added an explanation for the <code>xmlns</code> attribute of the <code>&lt;package&gt;</code> tag. Added interval pricing.

For a complete history of changes, see [“Previous Spec Revisions”](#) (page 113).

## What’s New in iTunes Store Package Music Profile 4.3?

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### Music Profile: Genres

The genre Health & Fitness has been renamed to Fitness & Workout. The Anime genre has been added.

### Music Profile: Corrections/Clarifications

The first letter of each word in genre names has been capitalized, for example “alternative” is now “Alternative” and “heavy metal” is now “Heavy Metal.” These changes were made in the XML examples and in the Genre Table.

## INTRODUCTION

### Introduction

The version number in the XML examples contained an extra period. “music.4.1” was changed to “music4.1” and updated to reflect the current version, 4.3.

The `<package>` tag annotations omitted the description of the `xmlns` attribute. It serves as a declaration that the elements in the XML are expected to conform to the schema associated with the specified namespace, which is <http://apple.com/itunes/importer>.

When initially delivering a music video, delivery of the video asset source is required (except for preorders with a sales start date in the future).

#### **Music Profile: Metadata Updates**

Music video cover art can be updated through metadata updates.

#### **Music Profile: Interval Pricing**

Interval pricing allows an album's wholesale pricing to automatically change during specific periods of time. This is especially useful for sales and other promotions that require temporary or permanent pricing changes on pre-determined dates. Interval pricing, if used, replaces the previous pricing model.

#### **Music Profile: Element Changes**

*Added*

```
<intervals>  
<interval>
```



# Delivery & Formatting Guidelines

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## Audio, Video & Images

Audio and image files must be provided in very specific sizes and formats. For complete details and all requirements, please see the *Asset Specification Guide*.

## Package Format

All delivered metadata and asset files must be delivered in the iTunes package format.

An iTunes Package is a directory named `vendor_identifier.itmsp` containing:

- an XML file named `metadata.xml` that describes the delivered content using the structure documented in this specification
- digitally encoded source materials (music, videos, digital booklets, et cetera)
- associated image files

For example, a package for a two-track single with a UPC of 0011223311223 would be sent in a packaged named "0011223311223.itmsp" and contain the following files:

- `metadata.xml`
- `0011223311223_01.wav`
- `0011223311223_02.wav`
- `0011223311223_cover.jpg`

The name for the package directory must match the `<vendor_id>` provided in the accompanying metadata file and should follow the format `vendor_id.itmsp`. The names of the files within the package can have any name, as long as the names correctly match the filenames provided in the accompanying XML. The metadata XML file must be immediately (at the top level) within the package directory. Vendor identifiers may only contain alphanumeric characters and underscores ("\_"). Packages delivered with identifiers containing other characters will be rejected.

## Metadata Details

### Character Encoding

---

All metadata files must use UTF-8 Unicode character encoding. UTF-8 efficiently encodes non-Roman characters and helps to ensure that metadata displayed in the store is the same as was intended by the repertoire owner. Your metadata file should not contain a byte-order mark (BOM) as it is not necessary for UTF-8 encoded data files nor is it supported by iTunes at this time. Incorrectly encoded metadata files or files that include a BOM will cause delays or may prevent your content from importing.

Note that simply declaring a metadata file as UTF-8 is not sufficient. The file itself must also be correctly encoded for accented characters and punctuation to appear correctly in the iTunes Store.

### Checksums

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All content files delivered to iTunes must include an industry-standard MD5 digest checksum, a measure that helps to guarantee that the asset files received by iTunes are correct and complete. Once received, the MD5 checksum contained in the metadata file (one for each asset file provided) is compared against the actual file received by iTunes. If any differences are detected, the asset file and the entire corresponding package are rejected. See the “[Helpful Tools](#)” (page 111) section of this document for tools that can generate MD5 checksums for your content.

### XML Formatting

---

There should be no null data or empty tags in the XML. The XML must be formatted to use line breaks and indentations as demonstrated in the examples included in this document. `xml11int` is a Unix command line tool that may be helpful to ensure that the provided XML is correctly formatted. Read the *iTunes Schema Validation Guide* for more information.

## Metadata Updates

If product offerings change at any point, an update may be sent through the feed. The newly sent package is compared against the current offering and changes are automatically applied. An update may be XML-only, or may be a complete redelivery of the entire package; however, all delivered metadata XML must always be correct and complete. If it is not, the update will not be processed. Note that track price tier changes are applied weekly; it may take up to a week for the pricing to be applied.

When a new package is delivered, it is processed in the following manner:

1. The update is compared to existing products and a match is found based on a combination of Vendor ID and UPC.
2. If no match is found, the incoming package is imported as new.
3. If a match is found, it is compared to the update and the differences that may be changed at the album-level are then applied.

4. For each song or video in the update, matches are found based on a combination of Vendor ID and ISRC.
5. If no matching song or video is found, and the album is complete, then no changes are made. If the album is not complete, then the new track or video is added to the album.
6. If a match is found, it is compared to the update and the differences that may be changed are applied to the existing song or video.

Not every part of an album or video may be updated. The following are the only currently available changes that will be automatically applied through the feed:

- Adding territories (i.e., `<product>` tags)
- Changing album copyrights (`<copyright_pline>` and `<copyright_cline>` tags)
- Changing clearance state (`<cleared_for_sale>` tag) for albums, songs and videos
- Changing `<preview_start_time>` for audio
- Changing `<preview_starttime="n"/>` for video
- Changing sales start date (`<sales_start_date>` tag) for albums (this will not be updated if the existing `<sales_start_date>` is in the past)
- Changing wholesale prices (`<wholesale_price_tier>` tag) for albums, songs, and videos (when allowed by contract). Note that track price tier changes are applied weekly; it may take up to a week for the pricing to be applied.
- Changing parental advisory state (`<explicit_content>` tag) for songs
- Changing `<label_name>` for albums and tracks
- Changing `<release_date>` for music videos
- Changing `<preorder_previews>` for pre-orders
- Changing `<gapless_play>` for songs
- Replacing audio files (this change is applied only if the checksum of the new audio differs from the checksum of the audio currently in the iTunes database)
- Replacing album cover art (this change is applied only if the checksum of the new cover differs from the checksum of the cover currently in the iTunes database)
- Replacing music video cover art (this change is applied only if the checksum of the new cover differs from the checksum of the cover currently in the iTunes database)
- Replacing bonus material (this change is applied only if the checksum of the new material differs from the checksum of the material currently in the iTunes database)

Additionally, if a metadata ticket is opened by iTunes prior to update delivery, the following fields may be submitted for update (actual update is subject to iTunes approval):

- Album title
- Album title version
- Track title
- Track title version

XML-only updates do not need to include any asset files. If asset files are not provided, then the files should not be mentioned in the provided metadata, otherwise the update will be refused. If asset files are included and properly referenced in the metadata, then the corresponding checksums will be compared to the checksums of the assets currently on file at iTunes, and the assets will be updated as necessary.

In order to provide metadata-only updates without sending asset files as well, asset blocks such as the following should be removed:

```
<audio_file>
  <file_name>pleasure.m4a</file_name>
  <size>879345</size>
  <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda</checksum>
</audio_file>
```

For a complete example, see [“Music Album Metadata-Only Update”](#) (page 34).

**Important:** Any changes should be considered "effective immediately" and cannot be made at a guaranteed date or time. Updates are usually applied within hours and should appear in the store within 24-48 hours of delivery.

## Updating GRIDs

---

The values in the following tags can be supplied in an update if the initial package was delivered without values:

- `<grid>` in an `<album>` block
- `<grid>` in a `<track>` block
- `<grid>` in a `<video>` block for music videos

If the tags have already been supplied in a previous delivery and you try to update them with new values, those values will be ignored.

# Music Profile

---

## Overview

The Music profile is used for the delivery of all types of Music content, including albums, singles, mixed media albums, and video singles.

Each package represents a single downloadable album or single within the iTunes Store. It is not possible to combine content from different packages or to deliver source assets in segments.

For questions regarding this document, contact your iTunes Technical Representative.

## Basic Music Album

The basic music album is used to deliver all audio: singles, EPs, single albums, and multi-volume albums.

### Basic Music Album Metadata Example

---

For the sake of brevity, only three audio tracks are shown. Album metadata may contain any number of `<track>` sections, one per audio track.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla (Remastered)</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
      <genre>World</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>6591649</size>
        <checksum type="md5">ffa9327b444559d4d72312b2c7d660ff</checksum>
      </file>
```

```

</artwork_files>
<liner_notes>These are the album liner notes.</liner_notes>
<description_short>The album's title and concept refer to the purest essence of
something, and Medúlla explores both the ritual power of the human voice and some of
the most essential themes of Björk's music in a way that's both primal and
elaborate.</description_short>
<description_long>The album's title and concept refer to the purest essence of
something, and Medúlla explores both the ritual power of the human voice and some of
the most essential themes of Björk's music in a way that's both primal and elaborate.
It took a large cast of characters to make the album's seemingly organic sound, including
vocalists ranging from Icelandic and British choirs to Inuit singers to Mike Patton
and Robert Wyatt; programmers like Matmos, Mark Bell, and Mark "Spike" Stent; and
beatboxers such as Rahzel and the onomatopoeically named Japanese artist Dokaka. Several
songs are sung in Icelandic, which works especially well, not only because it ties in
with Medúlla's concept, but also because of the language's sonic qualities: the rolling
Rs, guttural stops, and elongated vowels reflect the alternately chopped and soaring
arrangements behind them.</description_long>
<volume_count>1</volume_count>
<track_count>3</track_count>
<products>
  <product>
    <territory>GB</territory>
    <wholesale_price_tier>3</wholesale_price_tier>
    <sales_start_date>2004-10-22</sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
  </product>
  <product>
    <territory>IE</territory>
    <wholesale_price_tier>3</wholesale_price_tier>
    <sales_start_date>2004-10-22</sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
  </product>
</products>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name>Tiefshwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
  <artist>
    <name>Ewan Pearson</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>

```

```

<tracks>
  <track>
    <vendor_id>GBBFT0501345_9083</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A10302B00002427998</grid>
    <title>The Pleasure Is All Mine</title>
    <title_version></title_version>
    <gapless_play>true</gapless_play>
    <genres>
      <genre>Electronic</genre>
      <genre>World</genre>
    </genres>
    <products>
      <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <wholesale_price_tier>98</wholesale_price_tier>
        <cleared_for_user_generated_ringtones>true
      </cleared_for_user_generated_ringtones>
      </product>
      <product>
        <territory>IE</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <wholesale_price_tier>98</wholesale_price_tier>
        <cleared_for_user_generated_ringtones>>false
      </cleared_for_user_generated_ringtones>
      </product>
    </products>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <explicit_content>clean</explicit_content>
    <lyrics>These are the lyrics to the song.</lyrics>
    <liner_notes>These are the track liner notes.</liner_notes>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>1</track_number>
    <audio_file>
      <file_name>pleasure.m4a</file_name>
      <size>26556655</size>
      <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda</checksum>
    </audio_file>
    <preview_start_index>30</preview_start_index>
    <artists>
      <artist>
        <name>Björk</name>
        <roles>
          <role>Performer</role>
        </roles>
        <primary>true</primary>
      </artist>
      <artist>
        <name>Tiefschwarz</name>
        <roles>
          <role>Producer</role>
        </roles>
        <primary>>false</primary>
      </artist>
    </artists>
  </track>

```

```

</track>
<track>
  <vendor_id>GBBFT0460211_2369</vendor_id>
  <isrc>GBBFT0460211</isrc>
  <title>Vokuro</title>
  <title_version>Super DJ Remix</title_version>
  <gapless_play>false</gapless_play>
  <genres>
    <genre>Electronic</genre>
    <genre>Dance</genre>
  </genres>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>true</cleared_for_sale>
      <wholesale_price_tier>98</wholesale_price_tier>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
    <product>
      <territory>IE</territory>
      <wholesale_price_tier>98</wholesale_price_tier>
      <cleared_for_sale>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
  </products>
  <label_name>One Little Indian</label_name>
  <copyright_pline>2004 One Little Indian</copyright_pline>
  <explicit_content>explicit</explicit_content>
  <lyrics>These are the lyrics to the second song.</lyrics>
  <liner_notes>These are the track liner notes for the second song.
</liner_notes>
  <beats_per_minute>120</beats_per_minute>
  <volume_number>1</volume_number>
  <track_number>2</track_number>
  <audio_file>
    <file_name>vokuro.m4a</file_name>
    <size>78256392</size>
    <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
  </audio_file>
  <preview_start_index>30</preview_start_index>
  <artists>
    <artist>
      <name>Björk</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>true</primary>
    </artist>
    <artist>
      <name>Tiefschwarz</name>
      <roles>
        <role>Producer</role>
      </roles>
      <primary>false</primary>
    </artist>
  </artists>

```



```

</track>
<track>
  <vendor_id>GBBFT2500811_0912</vendor_id>
  <isrc>GBBFT2500811</isrc>
  <title>Medúlla Medly</title>
  <title_version>Radio Edit</title_version>
  <gapless_play>false</gapless_play>
  <genres>
    <genre>Electronic</genre>
    <genre>World</genre>
  </genres>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>true</cleared_for_sale>
      <wholesale_price_tier>98</wholesale_price_tier>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
    <product>
      <territory>IE</territory>
      <cleared_for_sale>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
  </products>
  <label_name>One Little Indian</label_name>
  <copyright_pline>2004 One Little Indian</copyright_pline>
  <lyrics>These are the lyrics to the third song.</lyrics>
  <liner_notes>These are the track liner notes for the third song.
</liner_notes>
  <beats_per_minute>120</beats_per_minute>
  <volume_number>1</volume_number>
  <track_number>3</track_number>
  <audio_file>
    <file_name>medly.m4a</file_name>
    <size>99253792</size>
    <checksum type="md5">c3330a3565baf58300bba711e3c26966</checksum>
  </audio_file>
  <preview_start_index>30</preview_start_index>
  <artists>
    <artist>
      <name>Björk</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>true</primary>
    </artist>
    <artist>
      <name>Tiefschwarz</name>
      <roles>
        <role>Producer</role>
      </roles>
      <primary>false</primary>
    </artist>
  </artists>
  <chapters>
    <chapter>

```

```

        <chapter_start_time>00:00:00.000</chapter_start_time>
        <chapter_title>Triumph of a Heart</chapter_title>
        <artwork_file>
            <file_name>triumph.jpg</file_name>
            <size>5866324</size>
            <checksum type="md5">
ed93d0f322c8d4175d4a353a4c645130</checksum>
        </artwork_file>
    </chapter>
    <chapter>
        <chapter_start_time>00:02:45.000</chapter_start_time>
        <chapter_title>Who Is It</chapter_title>
        <artwork_file>
            <file_name>who.jpg</file_name>
            <size>6852291</size>
            <checksum type="md5">
86bed345f40d1117ef05c34c1e8537a9</checksum>
        </artwork_file>
    </chapter>
</chapters>
</track>
</tracks>
</album>
</package>

```

## Basic Music Album Metadata Annotated

Package Metadata Fields	
<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt;</pre>	<p><b>XML Declaration (required)</b></p> <p>The character encoding of your document must be defined.</p> <p>iTunes only accepts UTF-8 encoding as it efficiently encodes non-Roman characters.</p> <p><b>Important:</b> The metadata.xml file must not contain a byte-order mark (BOM).</p>
<pre>&lt;package xmlns="http://apple.com/itunes/importer" version="music4.3"&gt;</pre>	<p><b>Package Container (required)</b></p> <p>The <code>xmlns</code> (for XML namespace) attribute is required and is needed for schema validation. It is used to declare the namespace (and associated schema) to which the tags in the XML are expected to conform. The namespace must be:</p> <p><code>http://apple.com/itunes/importer</code></p> <p>The <code>version</code> attribute is required. Packages created to this specification must indicate <code>version="music4.3"</code>. The “music” portion of the attribute must be in lowercase letters.</p>

<language>en-US</language>	<p><b>Language</b> <i>(required)</i></p> <p>The language of the metadata for this package. Fields such as title, short description, and long description are expected to appear in this language.</p> <p>To specify a language, use a dash character to combine a language designator with a region designator. This identifies both the language and the specific location where the language is spoken. For example, the language code for English-language speakers in Great Britain is en-GB, while the language code for English-speaking residents of the United States is en-US.</p> <p>iTunes follows the RFC4646 standard. See “<a href="#">Language Codes</a>” (page 107) for a list of common codes. For more details on languages, see <a href="http://tools.ietf.org/html/rfc4646">http://tools.ietf.org/html/rfc4646</a></p> <p><b>Note:</b> The 2-letter primary code from the ISO639 standard will still be accepted for backwards compatibility, however, keep in mind that “en” defaults to en-US.</p> <p>For more information on the ISO 639-1 standard, refer to <a href="http://www.loc.gov/standards/iso639-2/php/English_list.php">http://www.loc.gov/standards/iso639-2/php/English_list.php</a>.</p>
<b>Provider Metadata Fields</b>	
<provider>OneLittleIndian</provider>	<p><b>Provider</b> <i>(required, Apple-supplied)</i></p> <p>This value should be the Apple-defined provider name used for partner identification. The value must match the provider name used in Transporter (the value that is after -s in the Transporter command). Note that it is the value you pass as an argument to Transporter, not the value in the XML, that determines the account you are delivering to. Contact your iTunes Technical Representative for this value.</p>
<b>Album Metadata Fields</b>	

<p>&lt;vendor_id&gt;5099749642829&lt;/vendor_id&gt;</p>	<p><b>Album Vendor ID</b> <i>(optional)</i></p> <p>Uniquely identifies the album in sales reporting. Vendor identifiers may be numeric and do not need to be a fixed number of digits. Although vendor IDs may contain digits, they are treated as strings, not numbers. Thus, a vendor ID of '0000000012345' is not the same as '12345'. Vendor IDs need not be of fixed length, but have a limit of 100 ASCII characters. It is therefore important that vendor IDs be consistently formatted; either always be provided or never be provided.</p> <p>Vendor identifiers may only contain alphanumeric characters and the underscore mark; they may not contain spaces, other punctuation or symbols, and must not start with an underscore. The vendor identifier is case-sensitive. Apple recommends using the UPC of your album as the vendor ID.</p> <p>Albums delivered with identifiers containing other characters will be rejected.</p>
<p>&lt;upc&gt;5099749642829&lt;/upc&gt;</p>	<p><b>Album UPC</b> <i>(required)</i></p> <p>Identifier for the album. This may be UPC (Universal Product Code), EAN (European Article Number) or JAN (Japanese Article Number). UPC is 12-digit code mainly used for US market. Both the EAN and JAN has 13 digits. All of these identifiers require a check digit, generated mathematically from the rest of the number for consistency checking purposes. For more details, please see the UPC validation documentation <a href="http://www.uc-council.org/ean_ucc_system/education_support/cdc.html">http://www.uc-council.org/ean_ucc_system/education_support/cdc.html</a></p> <p>These identifiers are usually printed on the barcode of music CDs.</p>

<pre>&lt;grid&gt;A10302B0000114391R&lt;/grid&gt;</pre>	<p><b>Album GRID</b> (<i>optional; can be updated if not previously provided</i>)</p> <p>The GRID (global release identifier) for the album. GRIDs must be unique across all products (the combined set of both albums and tracks). GRID is a new industry standard but still not widely used. If GRID is not deployed at your company you should remove this element from the metadata.</p> <p><b>Important:</b> The GRID must not be more than 18 alphanumeric characters. The GRID <i>cannot</i> contain dashes, spaces, underscores, other punctuation, or symbols.</p>
<pre>&lt;title&gt;Medúlla (Remastered)&lt;/title&gt;</pre>	<p><b>Album Title</b> (<i>required</i>)</p> <p>The title of the album in English. If the album's native language is not an ISO Latin-1 or Latin-2 language (e.g., Japanese or Greek), please refer to the Foreign Language Support section for further details on how to supply album title data.</p> <p>If an album has a title version, it should be included in the album title in parentheses "( )." Generally, the album title version is used to distinguish different versions of the same album by the same artist (e.g., "Live from San Francisco", "Pump You Up Remix"). If not specified, it should be removed from the metadata.</p> <p>There is a 255-byte limit strictly enforced for album titles. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<pre>&lt;original_release_date&gt;2004-08-30&lt;/original_release_date&gt;</pre>	<p><b>Original Album Release Date</b> (<i>required</i>)</p> <p>The original date of the first consumer-available physical album release (LP, cassette, 8-track, CD, or other physical media). This is not the digital release date, unless this album has not previously been released on any format. This is the field presented to the user in the iTunes Store interface.</p> <p><b>This field is cosmetic only and does not impact "available date" or "street date" on the iTunes Store.</b></p> <p>For albums that are re-releases (e.g., re-mastered, or releases on new media types such as CD, digital et cetera), please do not use the date of re-release.</p> <p>This field must be in YYYY-MM-DD format.</p>

<pre>&lt;label_name&gt;One Little Indian&lt;/label_name&gt;</pre>	<p><b>Album Label Name</b> (<i>required; can be updated</i>) The name of the label that released the album.</p>
<pre>&lt;genres&gt;   &lt;genre&gt;Alternative&lt;/genre&gt;   &lt;genre&gt;World&lt;/genre&gt; &lt;/genres&gt;</pre>	<p><b>Album Genres</b> (<i>required</i>) Genres to associate with the album. Apple recommends content providers to define at least one but no more than two genres. Please see “<a href="#">Table 3: Music Genres</a>” (page 105) for a partial list of genres currently displayed by the iTunes Store; others are acceptable, but only genres from this list will appear in the Store. <b>Important:</b> Genre information may be reassigned at the discretion of iTunes.</p>
<pre>&lt;copyright_pline&gt;2004 One Little Indian&lt;/copyright_pline&gt;</pre>	<p><b>Album Copyright P-Line</b> (<i>optional; can be updated</i>) Performance copyright line for the album. Must be of the form YYYY copyright info as in the example. Do not add the p-line symbol or “p”; it will be added automatically. Some CDs don't have this P-line printed. Remove this element if this is the case.</p>
<pre>&lt;copyright_cline&gt;2004 One Little Indian&lt;/copyright_cline&gt;</pre>	<p><b>Album Copyright © Line</b> (<i>optional; can be updated</i>) Copyright line for the album. Must be of the form YYYY copyright info as in the example. No symbols should be used (© or “(c)”) as they will be added automatically. Some CDs do not have this C-line printed (mainly in Japan). Remove this element if this is the case.</p>
<pre>&lt;artwork_files&gt;   &lt;file&gt;     &lt;file_name&gt;cover.jpg&lt;/file_name&gt;     &lt;size&gt;6591649&lt;/size&gt;     &lt;checksum type="md5"&gt;       ffa9327b4444559d4d72312b2c7d660ff&lt;/checksum&gt;     &lt;/file&gt; &lt;/artwork_files&gt;</pre>	<p><b>Album Artwork</b> (<i>required; can be updated</i>) Album artwork is required, so too is the appropriate checksum for the provided file. The image must be at least 72 dpi. Please see <i>Asset Specification Guide</i> for complete file requirements. <b>Important:</b> If providing a metadata-only update, the <code>&lt;artwork_files&gt;</code> block should be omitted.</p>
<pre>&lt;liner_notes&gt;These are the album liner notes.&lt;/liner_notes&gt;</pre>	<p><b>Album Liner Notes</b> (<i>optional</i>) Liner notes in plain text.</p>

<p>&lt;description_short&gt;The album's title and concept refer to the purest essence of something, and Medúlla explores both the ritual power of the human voice and some of the most essential themes of Björk's music in a way that's both primal and elaborate.&lt;/description_short&gt;</p>	<p><b>Album Short Description</b> (<i>optional</i>)</p> <p>Should be one or two sentences. The limit is 255 characters, but it may be truncated to available space when displayed in the Music Store.</p> <p><b>Important:</b> Character counts are for standard 8-bit characters (i.e., Roman alphabet). Fewer double-wide characters (e.g., Japanese symbols) are allowed.</p>
<p>&lt;description_long&gt;The album's title and concept refer to the purest essence of something, and Medúlla explores both the ritual power of the human voice and some of the most essential themes of Björk's music in a way that's both primal and elaborate. It took a large cast of characters to make the album's seemingly organic sound, including vocalists ranging from Icelandic and British choirs to Inuit singers to Mike Patton and Robert Wyatt; programmers like Matmos, Mark Bell, and Mark "Spike" Stent; and beatboxers such as Rahzel and the onomatopoeically named Japanese artist Dokaka. Several songs are sung in Icelandic, which works especially well, not only because it ties in with Medúlla's concept, but also because of the language's sonic qualities: the rolling Rs, guttural stops, and elongated vowels reflect the alternately chopped and soaring arrangements behind them.&lt;/description_long&gt;</p>	<p><b>Album Long Description</b> (<i>optional</i>)</p> <p>A long version of the description. This can be either the same as the short description, or longer, up to a 4,000 character limit.</p> <p><b>Important:</b> Character counts are for standard 8-bit characters (i.e., Roman alphabet). Fewer double-wide characters (e.g., Japanese symbols) are allowed.</p>
<p>&lt;volume_count&gt;1&lt;/volume_count&gt;</p>	<p><b>Album Volume Count</b> (<i>optional</i>)</p> <p>The number of volumes of the album (i.e. the number of discs if the album set contains multiple discs). If specified, the value must be a positive integer.</p>
<p>&lt;track_count&gt;3&lt;/track_count&gt;</p>	<p><b>Album Track Count</b> (<i>optional</i>)</p> <p>Defines the total number of tracks within the album, and is a convenience method to communicate relative completeness of an album. If specified, the &lt;track_count&gt; is compared to the total number of tracks received and the associated album is automatically marked complete at time of import (pending iTunes approval).</p>
<p><b>Album Products Metadata Fields</b></p>	

<products>	
<product>	<p><b>Product</b> (<i>required; can be updated</i>)</p> <p>For <b>each</b> territory in which an album is to be sold there must be a defined product.</p> <p><b>Important:</b> Omitting this element indicates you would like the album available in all territories where you have an active contract. These clearances will therefore be added automatically for you:</p> <ul style="list-style-type: none"> <li>■ If you have a contract in a single territory, a clearance will be added for this contracted territory only.</li> <li>■ If you have a contract for more than one territory, world clearances will be added. This means that in the future if more contracts are signed, this product will appear in all new territories.</li> </ul>
<territory>GB</territory>	<p><b>Album Territory</b> (<i>required</i>)</p> <p>The territory in which this album is cleared for sale. Must be specified as an ISO 3166-1 alpha 2 country code. If an album is clear for every country, this may be indicated using "WW" as the country code. Some countries in the ISO 3166-1 alpha 2 country list contain other countries (e.g., United States includes Puerto Rico), and "WW" contains all territories.</p> <p>For a list for ISO 3166-1 alpha 2 codes, see <a href="http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html">http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html</a>.</p> <p>For more information on ISO codes, see <a href="http://www.davros.org/misc/iso3166.html">http://www.davros.org/misc/iso3166.html</a>.</p>



<pre>&lt;wholesale_price_tier&gt;3 &lt;/wholesale_price_tier&gt;</pre>	<p><b>Wholesale Price Tier</b> (<i>required; can be updated</i>)</p> <p>The wholesale price tier for the album. Must be a wholesale price tier number as specified in your contract with Apple.</p> <p>See “<a href="#">Table 1: Wholesale Price Tiers</a>” (page 103) for a list of available price tiers. Please review your contract to verify the tiers available to you. If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Contact your iTunes Technical Representative for more details.</p> <p><b>Important:</b> Omitting this element will prevent this album from being offered for sale as a complete album and will instead be available only as individual tracks.</p>
<pre>&lt;sales_start_date&gt;2004-10-22 &lt;/sales_start_date&gt;</pre>	<p><b>Sales Start Date</b> (<i>optional; can be updated</i>)</p> <p>The date that this album is made available for sale to customers in the specified territory only. This is also known as the “street date” of the album and is written in the format YYYY-MM-DD. In this example, “2004-10-22” is the sales start date and the album was made available for sale starting October 22, 2004.</p> <p><b>Important:</b> Omitting this element on an initial upload will make the album available for sale immediately after normal quality assurance processing.</p>

<pre>&lt;cleared_for_sale&gt;true&lt;/cleared_for_sale&gt;</pre>	<p><b>Cleared for Sale</b> (<i>optional; can be updated</i>)</p> <p>Specifies whether the album is cleared for sale in the territory for the product. Must be "true" or "false." If not specified, the default is "true."</p> <p>It is preferred that the "WW" territory is used whenever possible so that the fewest number of necessary territories are included in the delivered metadata.</p> <p>Because the product for the most specific territory is used, this can be used as an exclusion mechanism for a regional clearance. For example, if you have rights for the world except for the UK (GB), then you would have two products: one for the world with <code>&lt;cleared_for_sale&gt;</code> set to true, and one for the UK with <code>&lt;cleared_for_sale&gt;</code> set to false. The resulting album will be sold everywhere that you have a current contract with the exception of the UK.</p> <p>As a further example, to indicate album clearance for world less France and US, add only three album products: one for world with <code>&lt;cleared_for_sale&gt;</code> set to true, and one each for France and US with <code>&lt;cleared_for_sale&gt;</code> set to false.</p>
<pre>&lt;cleared_for_ticketmaster&gt;true&lt;/cleared_for_ticketmaster&gt;</pre>	<p><b>Cleared for Ticketmaster Sale</b> (<i>optional</i>)</p> <p>Specifies whether or not the album may be sold via the Ticketmaster website when customers buy event tickets in the product's corresponding territory. This is only available in select territories.</p> <p>Must be "true" or "false." If not specified, the default is "true."</p>
<pre>&lt;/product&gt; &lt;/products&gt;</pre>	

<pre> &lt;artists&gt;   &lt;artist&gt;     &lt;name&gt;Björk&lt;/name&gt;     &lt;roles&gt;       &lt;role&gt;Performer&lt;/role&gt;     &lt;/roles&gt;     &lt;primary&gt;&gt;true&lt;/primary&gt;   &lt;/artist&gt;   &lt;artist&gt;     &lt;name&gt;Tiefshwarz&lt;/name&gt;     &lt;roles&gt;       &lt;role&gt;Producer&lt;/role&gt;     &lt;/roles&gt;     &lt;primary&gt;&gt;false&lt;/primary&gt;   &lt;/artist&gt;   &lt;artist&gt;     &lt;name&gt;Ewan Pearson&lt;/name&gt;     &lt;roles&gt;       &lt;role&gt;Producer&lt;/role&gt;     &lt;/roles&gt;     &lt;primary&gt;&gt;false&lt;/primary&gt;   &lt;/artist&gt; &lt;/artists&gt; </pre>	<p><b>Album Artists</b> <i>(required)</i></p> <p>Name, primary status, and roles for each artist. In this context, "artist" may be any contributor including non-performing persons (e.g., producer), or groups (e.g., a band name). Individual artists should be listed separately and not grouped together (e.g., "Ella Fitzgerald", "Louis Armstrong" should be used instead of "Ella Fitzgerald and Louis Armstrong"), and individual members of a band may be listed (e.g., both "Harry Connick, Jr. Trio" (primary) and "Harry Connick, Jr." may be specified for an album).</p> <p>The role names must be in English in order to be imported into the Store, but the names will be localized if needed when displayed in the Store.</p> <p>Primary status indicates whether or not the album appears on the artist's page in the Store. Typically, there are one or two primary (lead) artists and several supporting artists. At least one artist must be designated as a primary artist.</p> <p>Only primary artists are presently displayed with the album in the Store, but other artists can be found through search or browse. Artist names will appear in the iTunes Store in the order in which they are specified in the provided metadata.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<b>Track Metadata Fields</b>	

<pre>&lt;vendor_id&gt;GBBFT0501345_9083&lt;/vendor_id&gt;</pre>	<p><b>Track Vendor ID</b> (<i>optional</i>)</p> <p>Uniquely identifies the album in sales reporting. Vendor identifiers may be numeric and do not need to be a fixed number of digits. Although vendor IDs may contain digits, they are treated as strings, not numbers. Thus, a vendor ID of '0000000012345' is not the same as '12345'. Vendor IDs need not be of fixed length, but have a limit of 100 ASCII characters. It is therefore important that vendor IDs be consistently formatted; either always be provided or never be provided.</p> <p>Vendor identifiers may only contain alphanumeric characters and the underscore mark; they may not contain spaces, other punctuation or symbols, and must not start with an underscore. The vendor identifier is case-sensitive. Apple recommends <i>omitting this field</i> and relying on GRID and/or ISRC for identifying products.</p>
<pre>&lt;isrc&gt;GBBFT0501345&lt;/isrc&gt;</pre>	<p><b>Track ISRC</b> (<i>required</i>)</p> <p>The ISRC (international standard recording code) for the track. ISRCs must be unique across all recordings. It is normal for an ISRC to appear in the store more than once if the same recording is included in more than one album (e.g. "greatest hits" albums tend to feature songs from other albums). In this case, the two tracks must have exactly the same audio. A re-recorded, remixed or otherwise different (no matter how similar) track must have a unique ISRC.</p> <p><b>Important:</b> ISRCs must not include dashes and should contain only letters and numbers as in the example, GBBFT0501345.</p>
<pre>&lt;grid&gt;A10302B00002427998&lt;/grid&gt;</pre>	<p><b>Track GRID</b> (<i>optional; can be updated if not previously provided</i>)</p> <p>The GRID (global release identifier) for the track. GRIDs must be unique across all products (both albums and tracks). GRID is a new industry standard and not widely used yet. If your company hasn't deployed it yet you should remove this field.</p> <p><b>Important:</b> The GRID must not be more than 18 alphanumeric characters. The GRID <i>cannot</i> contain dashes, spaces, underscores, other punctuation, or symbols.</p>

<pre>&lt;title&gt;The Pleasure Is All Mine&lt;/title&gt;</pre>	<p><b>Track Title</b> <i>(required)</i></p> <p>The title of the track. This tag should be used for titles based on ISO Latin-1 and Latin-2 language (i.e., English, French). For details for other languages including Asian double-byte languages (i.e., Japanese, Chinese) please refer to the <a href="#">“Multiple Language Support”</a> (page 62) section below.</p> <p>If the song track features one or more artists, you can add the artist name(s) as follows:  <pre>&lt;title&gt;If I Get Locked Up (feat. Eminem &amp; Dr. Dre)&lt;/title&gt;</pre> This way the song track will show up in the results when a customer searches for the artist.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> If you use parentheses in the title field, the title version field will not appear in the store.</p>
<pre>&lt;title_version&gt;Dub Remix&lt;/title_version&gt;</pre>	<p><b>Track Title Version</b> <i>(optional)</i></p> <p>The version title of the track. Generally used to distinguish different versions of the same song by the same artist (e.g., "Live from San Francisco", "Pump You Up Remix"). If not specified, it is left empty. This tag should be used for title versions based on ISO Latin-1 and Latin-2 language (i.e., English, French). For details for other languages including Asian double-byte languages (i.e., Japanese, Chinese) please refer to the <a href="#">“Multiple Language Support”</a> (page 62) section below.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> As parentheses will automatically added to the title version, please do not supply them when using this field.</p>
<pre>&lt;gapless_play&gt;true&lt;/gapless_play&gt;</pre>	<p><b>Track Gapless Play</b> <i>(optional; can be updated)</i></p> <p>Used to specify whether or not there is a gap in the audio separating the current track from the next track on the album. If true, then an audio gap will not be added. This tag only applies to the gap between a specified track and the track that precedes it.</p> <p>Accepted values are “true” or “false.”</p>

<pre>&lt;label_name&gt;One Little Indian&lt;/label_name&gt;</pre>	<p><b>Track Label Name</b> (<i>optional; can be updated</i>)</p> <p>The name of the label which released the album. If not specified, the <code>&lt;label_name&gt;</code> from the album is used.</p>
<pre>&lt;genres&gt;   &lt;genre&gt;Electronic&lt;/genre&gt;   &lt;genre&gt;World&lt;/genre&gt; &lt;/genres&gt;</pre>	<p><b>Track Genres</b> (<i>optional</i>)</p> <p>Genres to associate with the track. Please see “Table 3: Music Genres” (page 105) for a partial list of genres currently used by the iTunes Store; others are acceptable, but this list contains the only ones currently displayed in the Store.</p> <p><b>Important:</b> Genre information may be reassigned at the discretion of iTunes.</p>
<pre>&lt;products&gt;   &lt;product&gt;     &lt;territory&gt;GB&lt;/territory&gt;     &lt;cleared_for_sale&gt;true&lt;/cleared_for_sale&gt;</pre>	<p><b>Track Products</b> (<i>optional; can be updated</i>)</p> <p>For each territory in which a track is to be sold there must be a defined product.</p> <p>Because the product for the most specific territory is used, this can be used as an exclusion mechanism for a regional clearance. For example, if you have rights for the world except for the UK (GB), then you would have two products: one for the world with <code>&lt;cleared_for_sale&gt;</code> set to true, and one for the UK with <code>&lt;cleared_for_sale&gt;</code> set to false. The resulting track will be sold everywhere that you have a current contract with the exception of the UK.</p> <p><b>Important:</b> Omitting this element indicates you would like the track available in all territories where you have an active contract. These clearances will therefore be added automatically for you:</p> <ul style="list-style-type: none"> <li>■ If you have a contract in a single territory, a clearance will be added for this contracted territory only.</li> <li>■ If you have a contract for more than one territory, world clearances will be added. This means that in the future if more contracts are signed, this product will appear in all new territories.</li> </ul>

<pre>&lt;wholesale_price_tier&gt;98&lt;/wholesale_price_tier&gt;</pre>	<p><b>Track Wholesale Price Tier</b> (<i>optional; can be updated</i>)</p> <p>The wholesale price tier for the track. Must be a valid track-level wholesale price tier number as specified in your contract with Apple.</p> <p>See “<a href="#">Table 1: Wholesale Price Tiers</a>” (page 103) for a list of available price tiers. Please review your contract to verify the tiers available to you for tracks. If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Contact your iTunes Technical Representative for more details.</p>
<pre>&lt;cleared_for_user_generated_ringtones&gt;&gt;true&lt;/cleared_for_user_generated_ringtones&gt;</pre>	<p><b>Track Ringtone Clearance</b> (<i>optional</i>)</p> <p>For each track, and for each territory in which that track is available, a clearance for ringtone sale may be specified. If true, the associated track will be available in the Store for ringtone sale in only the specified territory.</p> <p>Acceptable values are "true" and "false." Unless otherwise stated in the contract, all tracks are assumed to be available and for ringtones (default value is "true") if this field is not included and explicitly stated as "false."</p>
<pre>&lt;/product&gt; &lt;/products&gt;</pre>	
<pre>&lt;copyright_pline&gt;2004 One Little Indian&lt;/copyright_pline&gt;</pre>	<p><b>Track Copyright P-Line</b> (<i>optional; can be updated</i>)</p> <p>Performance copyright line for the track. Must be of the form YYYY copyright info as in the example. Do not add the p-line symbol or “p”; it will be added automatically. Some CDs don't seem to have this P-line printed. Remove this element if this is the case.</p> <p><b>Important:</b> If not specified, the copyright line from the album is used.</p>
<pre>&lt;explicit_content&gt;clean&lt;/explicit_content&gt;</pre>	<p><b>Track Parental Advisory</b> (<i>optional; can be updated</i>)</p> <p>Denotes whether or not a track contains explicit content. May be "clean," "explicit" or "none." If omitted, "none" (i.e., an album for which neither a clean or explicit version exists) is assumed.</p>
<pre>&lt;lyrics&gt;These are the lyrics to the song.&lt;/lyrics&gt;</pre>	<p><b>Track Lyrics</b> (<i>optional</i>)</p> <p>Song lyrics for the track in plain text.</p>

<code>&lt;liner_notes&gt;These are the track liner notes.&lt;/liner_notes&gt;</code>	<b>Track Liner Notes</b> <i>(optional)</i> Track liner notes in plain text.
<code>&lt;beats_per_minute&gt;120&lt;/beats_per_minute&gt;</code>	<b>Track Beats Per Minute</b> <i>(optional)</i> Beats per minute. If specified, it must be a positive number.
<code>&lt;volume_number&gt;1&lt;/volume_number&gt;</code>	<b>Track Volume Number</b> <i>(optional)</i> The volume number (i.e. disc number) on which the track resides. If specified, it must be a positive integer. If omitted, the track is assumed to be on volume one.
<code>&lt;track_number&gt;1&lt;/track_number&gt;</code>	<b>Track Number</b> <i>(required)</i> The track number, used to order tracks within a volume within an album. Must be a positive integer. The combination of volume number and track number must be unique across all tracks in an album.
<code>&lt;audio_file&gt;</code>	<b>Track Audio File</b> <i>(required; can be updated)</i> Please see <i>Asset Specification Guide</i> for complete audio file requirements.
<code>&lt;file_name&gt;pleasure.m4a&lt;/file_name&gt;</code>	<b>File Name</b> <i>(required)</i> The name of the file included in this electronic delivery package. The name should be relative to the package (containing no path reference; neither "C:\" nor "/Macintosh HD/" should appear in this path) and it must contain the file name extension (".m4a" in this example). <b>Important:</b> Filenames are case-sensitive.
<code>&lt;size&gt;26556655&lt;/size&gt;</code>	<b>Track Audio Asset File Size</b> <i>(required)</i> Size in bytes of the provided audio asset file for the track.
<code>&lt;checksum type="md5"&gt; 6ddabb680edae6bf2ec84ffcfa730fda&lt;/checksum&gt;</code>	<b>Checksum</b> <i>(required)</i> The MD5 checksum of the data file. See <a href="#">"Checksums"</a> (page 10) for more information.
<code>&lt;preview_start_index&gt;30&lt;/preview_start_index&gt;</code>	<b>Track Preview Start</b> <i>(optional; can be updated)</i> Allows providers to specify a custom start time for the preview audio. The <code>&lt;preview_start_index&gt;</code> element should be specified in seconds from track start. <b>Important:</b> If not specified, the default is 45 seconds for content over 75 seconds in length and 0 seconds for shorter content.



```

<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name>Tiefshwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>

```

**Track Artists** (*required*)

Name, primary status, and roles for each artist. In this context, "artist" may be any contributor including non-performing persons (e.g., producer), or groups (e.g., a band name). Individual artists should be listed separately and not grouped together (e.g., "Ella Fitzgerald", "Louis Armstrong" are correct, while "Ella Fitzgerald and Louis Armstrong" is unacceptable), and individual members of a band may be listed (e.g., both "Harry Connick, Jr. Trio" (primary) and "Harry Connick, Jr." may be specified separately for a track).

The role names must be in English in order to be imported into the Store, but the names will be localized if needed when displayed in the Store.

If an artist is a featured artist on the track, add the artist and assign the role: `Featuring`. This ensures that the album will show up on the featured artist's page and the featured artist will show up in the Artist Column in iTunes for the track.

Primary status indicates whether or not the track appears on the album's track listing in the Store. Typically, there are one or two primary artists and several supporting artists on each track. Artist names will appear in the iTunes Store in the order in which they are specified in the provided metadata. Note that each track must include at least one artist with the `<primary>` status set to `true`.

<pre> &lt;chapters&gt;   &lt;chapter&gt;     &lt;chapter_start_time&gt;00:00:00.000   &lt;/chapter_start_time&gt;     &lt;chapter_title&gt;Triumph of a Heart&lt;/chapter_title&gt;     &lt;artwork_file&gt;       &lt;file_name&gt;triumph.jpg&lt;/file_name&gt;       &lt;size&gt;5866324&lt;/size&gt;       &lt;checksum type="md5"&gt; ed93d0f322c8d4175d4a353a4c645130&lt;/checksum&gt;     &lt;/artwork_file&gt;   &lt;/chapter&gt;   &lt;chapter&gt;     &lt;chapter_start_time&gt;00:02:45.000   &lt;/chapter_start_time&gt;     &lt;chapter_title&gt;Who Is It&lt;/chapter_title&gt;     &lt;artwork_file&gt;       &lt;file_name&gt;who.jpg&lt;/file_name&gt;       &lt;size&gt;6852291&lt;/size&gt;       &lt;checksum type="md5"&gt; 86bed345f40d1117ef05c34c1e8537a9&lt;/checksum&gt;     &lt;/artwork_file&gt;   &lt;/chapter&gt; &lt;/chapters&gt; </pre>	<p><b>Track Chaptering</b> (<i>optional; can be updated</i>)</p> <p>Defines chapters within a given track. If used, then <code>&lt;chapter_start_time&gt;</code> and <code>&lt;chapter_title&gt;</code> are required. <code>&lt;artwork_file&gt;</code> (art shown at the beginning of each chapter that conforms to the iTunes art specification) is optional, but if used, both <code>&lt;file_name&gt;</code>, <code>&lt;size&gt;</code>, and <code>&lt;checksum&gt;</code> are required. Each chapter image must have a unique filename.</p> <p>Chapter start time is in HH:MM:SS.MMM format (hour, minute, second, millisecond) and end time is inferred from the start time of the next defined chapter, or the track's end time.</p> <p>There is no limit to the total number of tracks specified, but generally tracks should follow the physical product chapter or track structure (if available). Chaptering is on the track-level and each track is entirely independent; therefore, in an album, one track may have tracks while others do not.</p> <p>There is a 255-byte limit strictly enforced for chapter titles. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<pre> &lt;/tracks&gt; &lt;/album&gt; &lt;/package&gt; </pre>	

## Music Album Metadata-Only Update

If product offerings change at any point, an update may be sent through the feed. The newly sent package is compared against the current offering and changes are automatically applied. An update may be XML-only (as per example below), or may be a complete redelivery of the entire package; however, all delivered metadata XML must always be correct and complete. If it is not, the update will not be processed.

XML-only updates do not need to include any asset files. If asset files are not provided, then the files should not be mentioned in the provided metadata, otherwise the update will be refused. If asset files are included and properly referenced in the metadata, then the corresponding checksums will be compared to the checksums of the assets currently on file at iTunes, and the assets will be updated as necessary.

For complete details on what may be updated, see “[Metadata Updates](#)” (page 10).

## Music Album Metadata-Only Update Example

---

In the following example, only metadata changes are made (in bold), therefore all asset references have been removed. Asset files are also not provided in the package delivered to iTunes.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla (Remastered)</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Aternative</genre>
      <genre>World</genre>
    </genres>
    <copyright_pline>2005 One Little Indian</copyright_pline>
    <copyright_cline>2005 One Little Indian</copyright_cline>
    <liner_notes>These are the album liner notes.</liner_notes>
    <description_short>The album's title and concept refer to the purest essence of
something, and Medúlla explores both the ritual power of the human voice and some of
the most essential themes of Björk's music in a way that's both primal and
elaborate.</description_short>
    <description_long>The album's title and concept refer to the purest essence of
something, and Medúlla explores both the ritual power of the human voice and some of
the most essential themes of Björk's music in a way that's both primal and elaborate.
It took a large cast of characters to make the album's seemingly organic sound, including
vocalists ranging from Icelandic and British choirs to Inuit singers to Mike Patton
and Robert Wyatt; programmers like Matmos, Mark Bell, and Mark "Spike" Stent; and
beatboxers such as Rahzel and the onomatopoeically named Japanese artist Dokaka. Several
songs are sung in Icelandic, which works especially well, not only because it ties in
with Medúlla's concept, but also because of the language's sonic qualities: the rolling
Rs, guttural stops, and elongated vowels reflect the alternately chopped and soaring
arrangements behind them.</description_long>
    <volume_count>1</volume_count>
    <track_count>3</track_count>
    <products>
      <product>
        <territory>GB</territory>
        <wholesale_price_tier>4</wholesale_price_tier>
        <sales_start_date>2004-10-22</sales_start_date>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      </product>
      <product>
        <territory>IE</territory>
        <wholesale_price_tier>3</wholesale_price_tier>
        <sales_start_date>2004-10-22</sales_start_date>
        <cleared_for_sale>>false</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      </product>
    </products>
  </album>
  <artists>
```

```

<artist>
  <name>Björk</name>
  <roles>
    <role>Performer</role>
  </roles>
  <primary>true</primary>
</artist>
<artist>
  <name>Tiefshwarz</name>
  <roles>
    <role>Producer</role>
  </roles>
  <primary>false</primary>
</artist>
<artist>
  <name>Ewan Pearson</name>
  <roles>
    <role>Producer</role>
  </roles>
  <primary>false</primary>
</artist>
</artists>
<tracks>
  <track>
    <vendor_id>GBBFT0501345_9083</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A10302B00002427998</grid>
    <title>The Pleasure Is All Mine</title>
    <title_version>Dub Remix</title_version>
    <gapless_play>true</gapless_play>
    <genres>
      <genre>Electronic</genre>
      <genre>World</genre>
    </genres>
    <products>
      <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
      </product>
      <product>
        <territory>IE</territory>
        <cleared_for_sale>false</cleared_for_sale>
        <cleared_for_user_generated_ringtones>false
</cleared_for_user_generated_ringtones>
      </product>
    </products>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <explicit_content>clean</explicit_content>
    <lyrics>These are the lyrics to the song.</lyrics>
    <liner_notes>These are the track liner notes. </liner_notes>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>1</track_number>
    <preview_start_index>30</preview_start_index>
  </track>
</tracks>

```

```

    <artist>
      <name>Björk</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>true</primary>
    </artist>
    <artist>
      <name>Tiefschwarz</name>
      <roles>
        <role>Producer</role>
      </roles>
      <primary>false</primary>
    </artist>
  </artists>
</track>
<track>
  <vendor_id>GBBFT0460211_2369</vendor_id>
  <isrc>GBBFT0460211</isrc>
  <title>Vokuro</title>
  <title_version>Super DJ Remix</title_version>
  <gapless_play>false</gapless_play>
  <genres>
    <genre>Electronic</genre>
    <genre>Dance</genre>
  </genres>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
    <product>
      <territory>IE</territory>
      <cleared_for_sale>false</cleared_for_sale>
      <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
    </product>
  </products>
  <label_name>One Little Indian</label_name>
  <copyright_pline>2004 One Little Indian</copyright_pline>
  <explicit_content>explicit</explicit_content>
  <lyrics>These are the lyrics to the second song.</lyrics>
  <liner_notes>These are the track liner notes for the second song.
</liner_notes>
  <beats_per_minute>120</beats_per_minute>
  <volume_number>1</volume_number>
  <track_number>2</track_number>
  <preview_start_index>30</preview_start_index>
  <artists>
    <artist>
      <name>Björk</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>true</primary>
    </artist>

```

```

        <artist>
          <name>Tiefschwarz</name>
          <roles>
            <role>Producer</role>
          </roles>
          <primary>>false</primary>
        </artist>
      </artists>
    </track>
    <track>
      <vendor_id>GBBFT2500811_0912</vendor_id>
      <isrc>GBBFT2500811</isrc>
      <title>Medúlla Medly</title>
      <title_version>Radio Edit</title_version>
      <gapless_play>>false</gapless_play>
      <genres>
        <genre>Electronic</genre>
        <genre>World</genre>
      </genres>
      <products>
        <product>
          <territory>GB</territory>
          <cleared_for_sale>>true</cleared_for_sale>
          <cleared_for_user_generated_ringtones>>true
        </cleared_for_user_generated_ringtones>
        </product>
        <product>
          <territory>IE</territory>
          <cleared_for_sale>>false</cleared_for_sale>
          <cleared_for_user_generated_ringtones>>true
        </cleared_for_user_generated_ringtones>
        </product>
      </products>
      <label_name>One Little Indian</label_name>
      <copyright_pline>2004 One Little Indian</copyright_pline>
      <lyrics>These are the lyrics to the third song.</lyrics>
      <liner_notes>These are the track liner notes for the third song.
    </liner_notes>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>3</track_number>
    <preview_start_index>30</preview_start_index>
    <artists>
      <artist>
        <name>Björk</name>
        <roles>
          <role>Performer</role>
        </roles>
        <primary>>true</primary>
      </artist>
      <artist>
        <name>Tiefschwarz</name>
        <roles>
          <role>Producer</role>
        </roles>
        <primary>>false</primary>
      </artist>
    </artists>

```

```

    <chapters>
      <chapter>
        <chapter_start_time>00:00:00.000</chapter_start_time>
        <chapter_title>Triumph of a Heart</chapter_title>
      </chapter>
      <chapter>
        <chapter_start_time>00:02:45.000</chapter_start_time>
        <chapter_title>Who Is It</chapter_title>
      </chapter>
    </chapters>
  </track>
</tracks>
</album>
</package>

```

## Takedowns

Takedowns simplify the takedown process and require very little knowledge of the album. They allow content to be removed from sale from any or all territories in one update without knowledge of track lineup, track ISRCs, or other track-level information. They are especially useful with older catalogue titles, or when the track-level information has changed in label copy systems after initial delivery.

- Metadata is exactly the same as a metadata-only update (without asset datafiles), except that all of the track-level metadata is omitted, and `<cleared_for_sale>` is set to “false” for any territories in which the album is to be taken down.
- May be for one or more territories.
- Only apply to the specified territory. For example, if both “WW” and “CA” are specified on an album and “WW” is taken down, the album will be removed from sale in WW; however, it will remain live in Canada.

## Takedown Metadata Example

---

For the sake of brevity, only two territories are shown.

```

<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla (Remastered)</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
  </album>
</package>

```

```

<volume_count>1</volume_count>
<track_count>2</track_count>
<products>
  <product>
    <territory>GB</territory>
    <cleared_for_sale>>false</cleared_for_sale>
  </product>
  <product>
    <territory>IE</territory>
    <cleared_for_sale>>false</cleared_for_sale>
  </product>
</products>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>>true</primary>
  </artist>
</artists>
</album>
</package>

```

## Music Video Single

The music video single is used for delivery of one video for individual sale in the Store. For albums with multiple videos or containing both video and audio, see “Mixed Media Album” (page 51).

**Note:** For an initial delivery of a music video, delivery of the video asset source is required.

## Music Video Single Metadata Example

```

<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>Warner</provider>
  <video>
    <vendor_id>GB5170300040</vendor_id>
    <grid>A10302B00002427998</grid>
    <upc>825646307760</upc>
    <isrc>GB5170300040</isrc>
    <title>Zeal</title>
    <title_version>Extended Version</title_version>
    <release_date>2003-01-10</release_date>
    <label_name>Warner Music</label_name>
    <genres>
      <genre>Rock</genre>
    </genres>
    <copyright_cline>2003 Warner Music</copyright_cline>
    <copyright_pline>2003 Warner Music</copyright_pline>
    <explicit_content>clean</explicit_content>
  </video>
</package>

```



```

<preview starttime="30"/>
<assets>
  <asset type="full">
    <data_file role="source">
      <file_name>GB5170300040.mpg</file_name>
      <size>93664213</size>
      <checksum type="md5">a8900fb356b7c23badeca6f3010a98aa</checksum>
    </data_file>
  </asset>
  <asset type="artwork">
    <data_file>
      <file_name>videoart.jpg</file_name>
      <size>6846623</size>
      <checksum type="md5">263e9f7612598fad35130716f15d7bde</checksum>
    </data_file>
  </asset>
</assets>
<products>
  <product>
    <territory>US</territory>
    <wholesale_price_tier>98</wholesale_price_tier>
    <sales_start_date>2006-01-16</sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
</products>
<artists>
  <artist>
    <name>Plaid</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
</artists>
</video>
</package>

```

## Music Video Single Metadata Annotation

The sub-elements of `<video>` are the same regardless of whether the `<video>` element appears within the `<tracks>` element of a mixed media album or directly within the `<package>` element of a video single package.

Component Metadata Fields	
<code>&lt;?xml version="1.0" encoding="UTF-8"?&gt;</code>	<p><b>XML Declaration (required)</b></p> <p>The character encoding of your document must be defined. For more information, See the Annotated XML Spec, section 2.8: <a href="http://www.xml.com/axml/axml.html">http://www.xml.com/axml/axml.html</a></p> <p>Apple can only accept UTF-8 encoding. UTF-8 is preferred because it efficiently encodes non-Roman characters.</p>

<pre>&lt;package xmlns="http://apple.com/itunes/importer" version="music4.3"&gt;</pre>	<p><b>Package Container</b> <i>(required)</i></p> <p>The <code>xmlns</code> (for XML namespace) attribute is required and is needed for schema validation. It is used to declare the namespace (and associated schema) to which the tags in the XML are expected to conform. The namespace must be:</p> <pre>http://apple.com/itunes/importer</pre> <p>The version attribute is required and should refer to the version of the specification used to create the metadata. The “music” portion of the attribute must be in lowercase letters.</p>
<pre>&lt;language&gt;en-US&lt;/language&gt;</pre>	<p><b>Language</b> <i>(required)</i></p> <p>The language of the metadata for this package. Fields such as title, short description, and long description are expected to appear in this language.</p> <p>To specify a language, use a dash character to combine a language designator with a region designator. This identifies both the language and the specific location where the language is spoken. For example, the language code for English-language speakers in Great Britain is en-GB, while the language code for English-speaking residents of the United States is en-US.</p> <p>iTunes follows the RFC4646 standard. See “Language Codes” (page 107) for a list of common codes. For more details on languages, see <a href="http://tools.ietf.org/html/rfc4646">http://tools.ietf.org/html/rfc4646</a></p> <p><b>Note:</b> The 2-letter primary code from the ISO639 standard will still be accepted for backwards compatibility, however, keep in mind that “en” defaults to en-US.</p> <p>For more information on the ISO 639-1 standard, refer to <a href="http://www.loc.gov/standards/iso639-2/php/English_list.php">http://www.loc.gov/standards/iso639-2/php/English_list.php</a>.</p>
<p><b>Provider Metadata Fields</b></p>	

<code>&lt;provider&gt;OneLittleIndian&lt;/provider&gt;</code>	<p><b>Provider</b> (<i>required, Apple-supplied</i>)</p> <p>This value should be the Apple-defined provider name used for partner identification. The value must match the provider name used in Transporter (the value that is after <code>-s</code> in the Transporter command). Note that it is the value you pass as an argument to Transporter, not the value in the XML, that determines the account you are delivering to. Contact your iTunes Technical Representative for this value.</p>
<b>Video Metadata Fields</b>	
<code>&lt;video&gt;</code>	<p><b>Music Video</b> (<i>required</i>)</p> <p>For each package that contains video content the video content must be defined within this field. For mixed media albums or video albums, this is at the <code>&lt;tracks&gt;</code> level. In the case of a music video single, there is no album, and thus the <code>&lt;video&gt;</code> field is used by itself without <code>&lt;tracks&gt;</code>.</p>
<code>&lt;vendor_id&gt;GB5170300040&lt;/vendor_id&gt;</code>	<p><b>Music Video Vendor ID</b> (<i>optional</i>)</p> <p>Uniquely identifies the music video in sales reporting. Vendor identifiers may be numeric and do not need to be a fixed number of digits. Although vendor IDs may contain digits, they are treated as strings, not numbers. Thus, a vendor ID of '00000000012345' is not the same as '12345'. Vendor IDs need not be of fixed length, but have a limit of 100 ASCII characters. It is therefore important that vendor IDs be consistently formatted; either always be provided or never be provided.</p> <p>Vendor identifiers may only contain alphanumeric characters and the underscore mark; they may not contain spaces, other punctuation or symbols, and must not start with an underscore. The vendor identifier is case-sensitive. Apple recommends using the corresponding video ISRC as the vendor ID.</p>

<code>&lt;grid&gt;A10302B00002427998&lt;/grid&gt;</code>	<p><b>Music Video GRID</b> (<i>optional; can be updated if not previously provided</i>)</p> <p>The GRID (global release identifier) for the music video. GRIDs must be unique across all products (the combined set of both albums, tracks, and videos). GRID is a new industry standard and not widely used yet. If your company hasn't deployed it yet you should remove this field.</p> <p><b>Important:</b> The GRID must not be more than 18 alphanumeric characters. The GRID <i>cannot</i> contain dashes, spaces, underscores, other punctuation, or symbols.</p>
<code>&lt;upc&gt;825646307760&lt;/upc&gt;</code>	<p><b>Music Video UPC</b> (<i>required</i>)</p> <p>Identifier for the video. This may be UPC (Universal Product Code), EAN (European Article Number) or JAN (Japanese Article Number). UPC is 12-digit code mainly used for US market. Both the EAN and JAN has 13 digits.</p>
<code>&lt;isrc&gt;GB5170300040&lt;/isrc&gt;</code>	<p><b>Music Video ISRC</b> (<i>required</i>)</p> <p>The ISRC (international standard recording code) for the music video. ISRCs must be unique across all recordings. It is normal for an ISRC to appear in the store more than once if the same recording is included in more than one album (e.g. "greatest hits" albums tend to feature songs and videos from other albums). In this case, the two videos must have exactly the same audio and video. A re-recorded, remixed or otherwise different (no matter how similar) video must have a unique ISRC.</p> <p><b>Important:</b> ISRCs must not include dashes and should contain only letters and numbers as in the example, US56V0507710.</p>

<pre>&lt;title&gt;Zeal&lt;/title&gt;</pre>	<p><b>Music Video Title</b> (<i>required</i>)</p> <p>The title of the music video. This tag should be used video titles based on ISO Latin-1 and Latin-2 language (e.g., English or French). For videos with titles in Asian double-byte languages (e.g., Japanese, Chinese), please refer to “<a href="#">Multiple Language Support</a>” (page 62).</p> <p>If the video features one or more artists, you can add the artist name(s) as follows:  <pre>&lt;title&gt;If I Get Locked Up (feat. Eminem &amp; Dr. Dre)&lt;/title&gt;</pre> This way the video will show up in the results when a customer searches for the artist.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<pre>&lt;title_version&gt;Extended Version&lt;/title_version&gt;</pre>	<p><b>Music Video Title Version</b> (<i>optional</i>)</p> <p>The version title of the music video. Generally used to distinguish different versions of the same video by the same artist (e.g. "Live from San Francisco", "Pump You Up Remix"). This tag should be used video titles versions based on ISO Latin-1 and Latin-2 language (e.g., English or French). For videos with title versions in Asian double-byte languages (e.g., Japanese, Chinese), please refer to “<a href="#">Multiple Language Support</a>” (page 62).</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<pre>&lt;release_date&gt;2003-01-10&lt;/release_date&gt;</pre>	<p><b>Music Video Release Date</b> (<i>required; can be updated</i>)</p> <p>The first date of release for the video. This is a cosmetic field and is presented to the user in the iTunes Store interface only.</p> <p><b>This field does not impact date of release or "street date" for the iTunes Store.</b></p> <p>For videos that are re-releases (e.g., re-mastered, or releases on new media types such as DVD, digital et cetera), please do not use the date of re-release. This field must be in YYYY-MM-DD format.</p>

<code>&lt;label_name&gt;Warner Music&lt;/label_name&gt;</code>	<p><b>Music Video Label Name</b> (<i>required; can be updated</i>)</p> <p>The name of the label which released the music video.</p>
<code>&lt;genres&gt;</code> <code>  &lt;genre&gt;Rock&lt;/genre&gt;</code> <code>&lt;/genres&gt;</code>	<p><b>Music Video Genres</b> (<i>required</i>)</p> <p>Genres to associate with the video. Apple recommends content providers to define at least one but no more than two genres. Please see “<a href="#">Table 3: Music Genres</a>” (page 105) for a list of genres currently displayed by the iTunes Store; others are acceptable, but only genres from this list will appear in the Store.</p> <p><b>Important:</b> Genre information may be reassigned at the discretion of iTunes.</p>
<code>&lt;copyright_cline&gt;2003 Warner Music&lt;/copyright_cline&gt;</code>	<p><b>Music Video Copyright © Line</b> (<i>optional; can be updated</i>)</p> <p>Copyright line for the music video. Must be of the form <code>YYYY copyright info</code> as in the example. No symbols should be used (© or "c") as they will be added automatically. Some videos don't have this C-line in the slate. Remove this element if this is the case.</p>
<code>&lt;copyright_pline&gt;2003 Warner Music&lt;/copyright_pline&gt;</code>	<p><b>Music Video Copyright P-Line</b> (<i>optional; can be updated</i>)</p> <p>Performance copyright line for the music video. Must be of the form <code>YYYY copyright info</code> as in the example. Do not add the p-line symbol or “p”; it will be added automatically. Some videos don't have this P-line in the slate. Remove this element if this is the case.</p>
<code>&lt;explicit_content&gt;clean&lt;/explicit_content&gt;</code>	<p><b>Music Video Parental Advisory</b> (<i>optional; can be updated</i>)</p> <p>Denotes whether a video contains explicit content—lyrics, visuals, or otherwise. May be “clean,” “explicit” or “none.” If omitted, “none” (i.e., an album for which neither a clean or explicit version exists) is assumed.</p>
<code>&lt;preview starttime="30"/&gt;</code>	<p><b>Music Video Preview Start Time</b> (<i>optional; can be updated</i>)</p> <p>Specifies the start time for the 30-second video previews available in the iTunes Store. If not specified, the default is 45 seconds.</p>

<pre>&lt;asset type="full"&gt;</pre>	<p><b>Music Video Asset File</b> (<i>required; can be updated</i>)</p> <p>The music video asset is required with initial deliveries.</p> <p>Please refer to the <i>Asset Specification Guide</i> for all asset file requirements.</p>
<pre>&lt;data_file role="source"&gt;   &lt;file_name&gt;GB5170300040.mpg&lt;/file_name&gt;</pre>	<p><b>Music Video Asset File Name</b> (<i>required; can be updated</i>)</p> <p>The name of the video asset file included. The name should be relative to the package (containing no path reference "C:\" nor "/Macintosh HD/") and it must contain the file name extension (".mpg" in this example). This name should be vendor ID, UPC or ISRC that will be used for reporting.</p> <p><b>Important:</b> Filenames are case-sensitive.</p>
<pre>&lt;size&gt;93664213&lt;/size&gt;</pre>	<p><b>Music Video Asset File Size</b> (<i>required</i>)</p> <p>The size of the video file.</p>
<pre>&lt;checksum type="md5"&gt; 0420a6c796cff0863ee867be13fe9ca1&lt;/checksum&gt; &lt;/data_file&gt;</pre>	<p><b>Music Video Asset File Checksum</b> (<i>required</i>)</p> <p>The MD5 checksum of the data file. See <a href="#">"Checksums"</a> (page 10) for more information.</p>
<pre>&lt;asset type="artwork"&gt;   &lt;data_file&gt;     &lt;file_name&gt;videoart.jpg&lt;/file_name&gt;     &lt;size&gt;6846623&lt;/size&gt;     &lt;checksum type="md5"&gt; 263e9f7612598fad35130716f15d7bde&lt;/checksum&gt;   &lt;/data_file&gt; &lt;/asset&gt;</pre>	<p><b>Music Video Artwork</b> (<i>required; can be updated</i>)</p> <p>A screen capture from the video must be provided along with the video, to be used as the art work for the video in the iTunes Store and when it is purchased. This must be taken from the video itself and can never be a cover of the corresponding single.</p> <p>Art can be provided with any kind of video, whether it is a video single or part of a playlist.</p> <p>The image must be at least 72 dpi. Please refer to the <i>Asset Specification Guide</i> for more details and asset file requirements.</p>
<pre>&lt;products&gt;</pre>	

<product>	<p><b>Music Video Product</b> <i>(required; can be updated)</i></p> <p>For <b>each</b> territory in which an video is to be sold there must be a defined product.</p> <p><b>Important:</b> Omitting this element indicates you would like the video available in all territories where you have an active contract. These clearances will therefore be added automatically for you:</p> <ul style="list-style-type: none"> <li>■ If you have a contract in a single territory, a clearance will be added for this contracted territory only.</li> <li>■ If you have a contract for more than one territory, world clearances will be added. This means that in the future if more contracts are signed, this product will appear in all new territories.</li> </ul>
<territory>US</territory>	<p><b>Music Video Territory</b> <i>(required)</i></p> <p>The territory in which this video is cleared for sale. Must be specified as an ISO 3166-1 alpha 2 country code. If a video is clear for every country, this may be indicated using "WW" as the country code. Some countries in the ISO 3166-1 alpha 2 country list contain other countries (e.g., United States includes Puerto Rico), and "WW" contains all territories.</p> <p>For a list for ISO 3166-1 alpha 2 codes, see <a href="http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html">http://www.iso.org/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/index.html</a>.</p> <p>For more information on ISO codes, see <a href="http://www.davros.org/misc/iso3166.html">http://www.davros.org/misc/iso3166.html</a>.</p>



<pre>&lt;wholesale_price_tier&gt;98&lt;/wholesale_price_tier&gt;</pre>	<p><b>Music Video Wholesale Price Tier</b> (<i>required; can be updated</i>)</p> <p>The wholesale price tier for the video. Must be a wholesale price tier number as specified in your contract with Apple.</p> <p>See “<a href="#">Table 1: Wholesale Price Tiers</a>” (page 103) for a list of available price tiers. Please review your contract to verify the tiers available to you. If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Contact your iTunes Technical Representative for more details.</p> <p><b>Important:</b> Omitting this element will indicate that “default” video pricing should be used.</p>
<pre>&lt;sales_start_date&gt;2006-01-16&lt;/sales_start_date&gt;</pre>	<p><b>Music Video Sales Start Date</b> (<i>optional; can be updated</i>)</p> <p>The date that this video is made available for sale to customers in the specified territory only. This is also known as the “street date” of the video and is written in the format YYYY-MM-DD.</p> <p>In this example, “2006-0-1-16” is the sales start date and the video was made available for sale starting January 16, 2006.</p> <p><b>Important:</b> Omitting this element on an initial upload will make the video available for sale immediately.</p>

<pre>&lt;cleared_for_sale&gt;true&lt;/cleared_for_sale&gt;</pre>	<p><b>Music Video Cleared for Sale</b> (<i>optional; can be updated</i>)</p> <p>Specifies whether the video is cleared for sale in the territory for the product. Must be "true" or "false." If not specified, the default is "true."</p> <p>It is preferred that the "WW" territory is used whenever possible so that the fewest number of necessary territories are included in the delivered metadata.</p> <p>Because the product for the most specific territory is used, this can be used as an exclusion mechanism for a regional clearance. For example, if you have rights for the world except for the UK (GB), then you would have two products: one for the world with <code>&lt;cleared_for_sale&gt;</code> set to true, and one for the UK with <code>&lt;cleared_for_sale&gt;</code> set to false. The resulting video will be sold everywhere that you have a current contract with the exception of the UK.</p>
<pre>&lt;/product&gt; &lt;/products&gt;</pre>	

<pre> &lt;artists&gt;   &lt;artist&gt;     &lt;name&gt;Plaid&lt;/name&gt;     &lt;roles&gt;       &lt;role&gt;Performer&lt;/role&gt;     &lt;/roles&gt;     &lt;primary&gt;true&lt;/primary&gt;   &lt;/artist&gt; &lt;/artists&gt; </pre>	<p><b>Music Video Artists</b><i>(required)</i></p> <p>Name, primary status, and roles for each artist. In this context, "artist" may be any contributor including non-performing persons (e.g., producer), or groups (e.g., a band name). Individual artists should be listed separately and not grouped together (e.g., "Ella Fitzgerald", "Louis Armstrong" should be used instead of "Ella Fitzgerald and Louis Armstrong"), and individual members of a band may be listed (e.g., both "Harry Connick, Jr. Trio" (primary) and "Harry Connick, Jr." may be specified for a video).</p> <p>The role names must be in English in order to be imported into the Store, but the names will be localized if needed when displayed in the Store.</p> <p>If an artist is a featured artist on the video, add the artist and assign the role: <i>Featuring</i>. This ensures that the video will show up on the featured artist's page.</p> <p>Primary status indicates whether or not the video appears on the artist's page in the Store. Typically, there are one or two primary (lead) artists and several supporting artists. Note that the video must include at least one artist with the <code>&lt;primary&gt;</code> status set to <code>true</code>.</p> <p>Only primary artists are presently displayed with the video in the Store, but other artists can be found through search or browse and lead to the video.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p>
<pre> &lt;/video&gt; &lt;/package&gt; </pre>	

## Mixed Media Album

A mixed media album is an album that has both audio and video content. It is quite similar to an audio album in format, but has a new element introduced to handle videos, `<video>`. Should a single video be delivered in this format, it will be rejected. For details on how to deliver video singles, see ["Music Video Single"](#) (page 40).

## Mixed Media Album Metadata Example

---

This example shows metadata for an album that contains both audio and music video tracks. An "album" is anything that has more than one video or audio track.

For the sake of brevity, only two audio tracks and a single video track are shown. Album metadata may contain any number of <track> and <video> blocks, one per audio or video track, respectively. All fields are explained above in the Music Video Single and Basic Music Album sections.

Note that while audio tracks use the <track\_number> tag, videos also use the <track\_number> tag to indicate placement on the album track listing. The <track\_number> tag is required for videos within a playlist.

## Mixed Media Album Metadata Example

---

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>The Pleasure Is All Mine</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
      <genre>World</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>6591649</size>
        <checksum type="md5">ffa9327b444559d4d72312b2c7d660ff</checksum>
      </file>
    </artwork_files>
    <volume_count>1</volume_count>
    <track_count>3</track_count>
    <products>
      <product>
        <territory>GB</territory>
        <wholesale_price_tier>3</wholesale_price_tier>
        <sales_start_date>2004-10-22</sales_start_date>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      </product>
      <product>
        <territory>IE</territory>
        <wholesale_price_tier>3</wholesale_price_tier>
        <sales_start_date>2004-10-22</sales_start_date>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      </product>
    </products>
  </album>
</package>
```

```

    </product>
</products>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name>Tiefshwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
  <artist>
    <name>Ewan Pearson</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>
<tracks>
  <track>
    <vendor_id>5099749642829_GBBFT0501345</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A10302B00002427998</grid>
    <title>The Pleasure Is All Mine</title>
    <title_version>Radio Version</title_version>
    <gapless_play>true</gapless_play>
    <genres>
      <genre>Electronic</genre>
      <genre>World</genre>
    </genres>
    <products>
      <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
      </product>
      <product>
        <territory>IE</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
      </product>
    </products>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <explicit_content>clean</explicit_content>
    <lyrics>These are the lyrics to the song.</lyrics>
    <liner_notes>These are the track liner notes. </liner_notes>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
  </track>
</tracks>

```

```

<track_number>1</track_number>
<audio_file>
  <file_name>pleasure.m4a</file_name>
  <size>26556655</size>
  <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda</checksum>
</audio_file>
<preview_start_index>30</preview_start_index>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>>true</primary>
  </artist>
  <artist>
    <name>Tiefschwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>>false</primary>
  </artist>
</artists>
</track>
<track>
  <vendor_id>5099749642829_GBBFT0460211</vendor_id>
  <isrc>GBBFT0460211</isrc>
  <title>The Pleasure Is All Mine</title>
  <title_version>DJ Dan Remix</title_version>
  <gapless_play>>false</gapless_play>
  <genres>
    <genre>Electronic</genre>
    <genre>World</genre>
  </genres>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>>true
</cleared_for_user_generated_ringtones>
    </product>
    <product>
      <territory>IE</territory>
      <cleared_for_sale>>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>>true
</cleared_for_user_generated_ringtones>
    </product>
  </products>
  <label_name>One Little Indian</label_name>
  <copyright_pline>2004 One Little Indian</copyright_pline>
  <explicit_content>clean</explicit_content>
  <lyrics>These are the lyrics to the second song.</lyrics>
  <liner_notes>These are the track liner notes for the second song.
</liner_notes>
  <beats_per_minute>120</beats_per_minute>
  <volume_number>1</volume_number>
  <track_number>2</track_number>
  <audio_file>

```

```

        <file_name>pleasure_remix.m4a</file_name>
        <size>38770214</size>
        <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
    </audio_file>
    <preview_start_index>30</preview_start_index>
    <artists>
        <artist>
            <name>Björk</name>
            <roles>
                <role>Performer</role>
            </roles>
            <primary>true</primary>
        </artist>
        <artist>
            <name>Tiefschwarz</name>
            <roles>
                <role>Producer</role>
            </roles>
            <primary>false</primary>
        </artist>
    </artists>
</track>
<video>
    <vendor_id>GB5170300040</vendor_id>
    <grid>A10302B00002427998</grid>
    <isrc>GB5170300040</isrc>
    <title>The Pleasure Is All Mine</title>
    <title_version>Radio Version</title_version>
    <release_date>2004-10-22</release_date>
    <label_name>Warner Music</label_name>
    <genres>
        <genre>Electronic</genre>
        <genre>World</genre>
    </genres>
    <copyright_cline>2003 Warner Music</copyright_cline>
    <copyright_pline>2003 Warner Music</copyright_pline>
    <explicit_content>clean</explicit_content>
    <preview starttime="30"/>
    <assets>
        <asset type="full">
            <data_file role="source">
                <file_name>5099749642829_GB5170300040.mpg</file_name>
                <size>93664213</size>
                <checksum
type="md5">3c579894ca25b9af338e7ba0fb3e4fab</checksum>
            </data_file>
        </asset>
        <asset type="artwork">
            <data_file>
                <file_name>videoart.jpg</file_name>
                <size>6423613</size>
                <checksum
type="md5">ddfe4b8ab433e43e7dde429df86cabb2</checksum>
            </data_file>
        </asset>
    </assets>
    <volume_number>1</volume_number>
    <track_number>3</track_number>

```

```

    <products>
      <product>
        <territory>GB</territory>
        <cleared_for_sale>>true</cleared_for_sale>
      </product>
      <product>
        <territory>IE</territory>
        <cleared_for_sale>>true</cleared_for_sale>
      </product>
    </products>
  <artists>
    <artist>
      <name>Björk</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>>true</primary>
    </artist>
  </artists>
</video>
</tracks>
</album>
</package>

```

## Music Video Album

A music video album is a special case of the above mixed media album, where there are no audio tracks.

**Note:** For an initial delivery of a music video, delivery of the video asset source is required.

No other special considerations need to be made; therefore no metadata annotations are provided.

## Music Video Album Metadata Example

This example shows metadata for an album that contains only music video tracks.

For the sake of brevity, three videos are shown, but in practical use, there is no limit to the number of videos that may be provided. All fields are explained above in the Music Video Single and Basic Music Album sections.

```

<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>WarnerMusicGroup</provider>
  <album>
    <vendor_id>8256463821764</vendor_id>
    <upc>8256463821764</upc>
    <grid>A10302B0000279612Q</grid>
    <title>Live in Slow Motion</title>
    <original_release_date>2006-07-17</original_release_date>
    <label_name>Warner Vision International/WMI</label_name>
    <genres>

```



```

    <genre>Pop</genre>
</genres>
<copyright_pline>2006 IHT Records Limited</copyright_pline>
<copyright_cline>2006 IHT Records Limited</copyright_cline>
<artwork_files>
  <file>
    <file_name>5051011277023.jpg</file_name>
    <size>6852291</size>
    <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda</checksum>
  </file>
</artwork_files>
<products>
  <product>
    <territory>GB</territory>
    <wholesale_price_tier>3</wholesale_price_tier>
    <sales_start_date>2006-07-17</sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
  </product>
</products>
<artists>
  <artist>
    <name>David Gray</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
</artists>
<tracks>
  <video>
    <vendor_id>USW987200306</vendor_id>
    <isrc>USW987200306</isrc>
    <title>Alibi</title>
    <release_date>2006-07-17</release_date>
    <label_name>Warner Vision International/WMI</label_name>
    <genres>
      <genre>Pop</genre>
    </genres>
    <copyright_cline>2006 IHT Records Limited</copyright_cline>
    <copyright_pline>2006 IHT Records Limited</copyright_pline>
    <explicit_content>clean</explicit_content>
    <assets>
      <asset type="full">
        <data_file role="source">
          <file_name>8256463821764_USW987200306.mpg</file_name>
          <size>93664213</size>
          <checksum
type="md5">ffa9327b444559d4d72312b2c7d660ff</checksum>
        </data_file>
      </asset>
      <asset type="artwork">
        <data_file>
          <file_name>videoart.jpg</file_name>
          <size>6423613</size>
          <checksum
type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
        </data_file>

```

```

    </asset>
  </assets>
  <track_number>1</track_number>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>true</cleared_for_sale>
    </product>
  </products>
  <artists>
    <artist>
      <name>David Gray</name>
      <roles>
        <role>Performer</role>
      </roles>
      <primary>true</primary>
    </artist>
  </artists>
</video>
<video>
  <vendor_id>USW980400926</vendor_id>
  <isrc>USW980400926</isrc>
  <title>The One I Love</title>
  <release_date>2006-07-17</release_date>
  <label_name>Warner Vision International/WMI</label_name>
  <genres>
    <genre>Pop</genre>
  </genres>
  <copyright_cline>2006 IHT Records Limited</copyright_cline>
  <copyright_pline>2006 IHT Records Limited</copyright_pline>
  <explicit_content>clean</explicit_content>
  <assets>
    <asset type="full">
      <data_file role="source">
        <file_name>USW980400926.mpg</file_name>
        <size>93667654</size>
        <checksum
type="md5">0be843136d836bae06772574e65ddf04</checksum>
        </data_file>
      </asset>
    <asset type="artwork">
      <data_file>
        <file_name>one_i_love.jpg</file_name>
        <size>5664213</size>
        <checksum
type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
        </data_file>
      </asset>
    </assets>
  <track_number>2</track_number>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>true</cleared_for_sale>
    </product>
  </products>
  <artists>
    <artist>

```

```

        <name>David Gray</name>
        <roles>
            <role>Performer</role>
        </roles>
        <primary>true</primary>
    </artist>
</artists>
</video>
<video>
    <vendor_id>USW980800331</vendor_id>
    <isrc>USW980800331</isrc>
    <title>Nos Da Cariad</title>
    <release_date>2006-07-17</release_date>
    <label_name>Warner Vision International/WMI</label_name>
    <genres>
        <genre>Pop</genre>
    </genres>
    <copyright_cline>2006 IHT Records Limited</copyright_cline>
    <copyright_pline>2006 IHT Records Limited</copyright_pline>
    <explicit_content>clean</explicit_content>
    <assets>
        <asset type="full">
            <data_file role="source">
                <file_name>USW980800331.mpg</file_name>
                <size>93664213</size>
                <checksum
type="md5">01ae8931de3909baa02c02b947a3d404</checksum>
            </data_file>
        </asset>
        <asset type="artwork">
            <data_file>
                <file_name>nosdacariad.jpg</file_name>
                <size>3625813</size>
                <checksum
type="md5">38cba368bd1fdf57cc7d3e44a59e4da4</checksum>
            </data_file>
        </asset>
    </assets>
    <track_number>3</track_number>
    <products>
        <product>
            <territory>GB</territory>
            <cleared_for_sale>true</cleared_for_sale>
        </product>
    </products>
    <artists>
        <artist>
            <name>David Gray</name>
            <roles>
                <role>Performer</role>
            </roles>
            <primary>true</primary>
        </artist>
    </artists>
</video>
</tracks>
</album>
</package>

```

## Music Video Asset-Only Delivery

Video assets may be delivered independently of metadata. This is especially helpful if two different companies deliver the audio and the video assets, or if videos need to be replaced in the store due to encoding or other issues. Assets may not be delivered unless the metadata has already been sent and imported. If the video is sent without metadata to which it may be attached, it will fail delivery.

**Important:** Individual videos have globally unique identifiers (IDs) manufactured from a combination of the album and video IDs provided in the first metadata delivery. For video singles, this identifier is simply the previously supplied vendor ID (ISRC if vendor ID is not available). If, however, a video is attached to an album, the importer will use the album's vendor ID (or UPC if the vendor ID is not available), followed by an underscore, followed by ONE of the following from the video itself, in order of preference:

1. Expressly-supplied vendor ID
2. ISRC
3. UPC
4. GRID

So, for example, if the album's vendor ID is 093624996941, and the video's ISRC is USWBV0700477, the video doesn't expressly specify a vendor ID or an ISAN, then the video's effective vendor ID will be:

093624996941\_USWBV0700477

Therefore, in order to deliver a video without its associated metadata, it must be accompanied by the complete and correct vendor ID that references the already delivered metadata.

For any questions regarding asset-only deliver, please contact your iTunes Technical Representative.

## Music Video Asset-Only Delivery Package

---

Video asset-only deliveries still need to be in an iTunes package, but only consist of a short metadata file, the video asset and the cover art. For example, a package for an album with a UPC 00602517411838 would be delivered in a package directory titled "093624996941.itmsp" and might look like this:

- metadata.xml
- 093624996941\_USWBV0700477.mpg
- 093624996941\_USWBV0700477\_cover.jpg

## Music Video Asset-Only Delivery Metadata Example

---

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>Warner</provider>
  <assets media_type="video" vendor_id="093624996941_USWBV0700477">
```

```

<asset type="full">
  <data_file role="source">
    <size>494209028</size>
    <file_name>093624996941_USWBV0700477.mpg</file_name>
    <checksum type="md5">2de647fd3febfbe39b4bb0dd50bd2a3</checksum>
  </data_file>
</asset>
<asset type="artwork">
  <data_file>
    <file_name>093624996941_USWBV0700477_cover.jpg</file_name>
    <size>4209028</size>
    <checksum type="md5">5e10a3e7d6e19a9a4c00c1f2fb0197dd</checksum>
  </data_file>
</asset>
</assets>
</package>

```

## Music Video Asset-Only Delivery Metadata Annotation

Only the additions for music video asset-only are described.

<provider>Warner</provider>	<p><b>Provider Name</b> (<i>required</i>)</p> <p>This value should be the Apple-defined provider name used for partner identification. The value must match the provider name used in Transporter (the value that is after <code>-s</code> in the Transporter command). Note that it is the value you pass as an argument to Transporter, not the value in the XML, that determines the account you are delivering to. Contact your iTunes Technical Representative for this value.</p>
<assets media_type="video" vendor_id="093624996941_USWBV0700477">	<p><b>Music Video Assets Description</b> (<i>required</i>)</p> <p>The type and vendor identifier of the video asset. <code>Media_type</code> will always be "video;" however, the <code>vendor_id</code> should be the specific vendor identifier for the video as specified in the previously delivered metadata. All items within this tag are provided to supply the assets for the described <code>vendor_id</code>.</p>
<asset type="full">	<p><b>Music Video Asset Type</b> (<i>required</i>)</p> <p>The type of file delivered. This should always be "full" for the video asset file.</p>
<data_file role="source">	<p><b>Music Video Asset Role</b> (<i>required</i>)</p> <p>The role of video file delivered. This should always be "source," as the provided video asset is the master from which all encodes will be made.</p>

<code>&lt;size&gt;494209028&lt;/size&gt;</code>	<b>Music Video Asset File Size</b> <i>(required)</i> Size in bytes of the provided video asset file.
<code>&lt;file_name&gt; 093624996941_USWBV0700477.mpg&lt;/file_name&gt;</code>	<b>Music Video Asset File Name</b> <i>(required)</i> The name of the video asset file included. The name should be relative to the package (containing no path reference "C:\" nor "/Macintosh HD/") and it must contain the file name extension (".mpg" in this example). This name should be vendor ID, UPC or ISRC that will be used for reporting.
<code>&lt;checksum type="md5"&gt; 2de647fd3febffbe39b4bb0dd50bd2a3&lt;/checksum&gt;</code>	<b>Music Video Asset Checksum</b> <i>(required)</i> Size in bytes of the provided video asset file.
<code>&lt;/data_file&gt; &lt;/asset&gt;</code>	
<code>&lt;asset type="artwork"&gt;</code>	<b>Music Video Artwork Asset Type</b> <i>(required)</i> The type of file delivered. This should always be "artwork" for the artwork asset file.
<code>&lt;data_file&gt;   &lt;file_name&gt;093624996941_USWBV0700477   _cover.jpg&lt;/file_name&gt;   &lt;size&gt;4209028&lt;/size&gt;   &lt;checksum type="md5"&gt;   5e10a3e7d6e19a9a4c00c1f2fb0197dd&lt;/checksum&gt; &lt;/data_file&gt;</code>	<b>Music Video Artwork Asset File</b> <i>(required; can be updated)</i> A screen capture from the video must be provided along with the video, to be used as the art work for the video in the iTunes Store and when it is purchased. This must be taken from the video itself and may never be a cover of the corresponding single.  The image must be at least 72 dpi. Please refer to the <i>Asset Specification Guide</i> for more details and asset file requirements.
<code>&lt;/asset&gt; &lt;/assets&gt; &lt;/package&gt;</code>	

## Multiple Language Support

iTunes provides support for our Japanese customers via translation fields in the metadata. English translations must be provided for Japanese-language albums and tracks that will be for sale outside of Japan. Additionally, Japanese translations may be provided for non-Japanese albums and tracks that will be for sale in the iTunes Japan Store. iTunes also provides support for Japanese customers for the `<sell_plus_quality>` tag (previously deprecated except for Japan).

**Important:** Incorrect use of artist or title translations (including providing English translations for English native language albums) may result in discontinued eligibility for use of this feature.

## Japanese Language Metadata Example

---

This example shows the optional additions to metadata for Japanese language albums and tracks.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>ja-JP</language>
  <provider>Groove</provider>
  <album>
    <vendor_id>886970133623</vendor_id>
    <upc>886970133623</upc>
    <grid>A2B00001030391R114</grid>
    <title translation="native">真夜中の後悔</title>
    <title translation="phonetic">まよなか の こうかい</title>
    <title translation="english">Remorse at Midnight</title>
    <original_release_date>2006-07-10</original_release_date>
    <label_name>Groove</label_name>
    <genres>
      <genre>J-Pop</genre>
      <genre>Pop</genre>
    </genres>
    <copyright_pline>2006 グルーヴミュージック</copyright_pline>
    <copyright_cline>2006 グルーヴミュージック</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>4209028</size>
        <checksum type="md5">3c579894ca25b9af338e7ba0fb3e4fab</checksum>
      </file>
    </artwork_files>
    <description_short>This is the album description. </description_short>
    <description_long>This is a longer description than the previous one.
  </description_long>
  <volume_count>1</volume_count>
  <track_count>2</track_count>
  <products>
    <product>
      <territory>JP</territory>
      <wholesale_price_tier>3</wholesale_price_tier>
      <sales_start_date>2006-07-10</sales_start_date>
      <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      <sell_plus_quality>>false</sell_plus_quality>
    </product>
  </products>
  <artists>
    <artist>
      <name translation="native">高村晶子</name>
      <name translation="phonetic">たかむら あきこ</name>
      <name translation="english">Akiko Takamura</name>
      <roles>
        <role>Primary</role>
      </roles>
    </artist>
  </artists>
</package>
```

```

    </artist>
</artists>
<tracks>
  <track>
    <vendor_id>GBBFT0501345</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A030392B000011R127</grid>
    <title translation="native">クローバーテール</title>
    <title translation="phonetic">くろーばー てーる</title>
    <title translation="english">Clover Tail</title>
    <title_version translation="native">オリジナル・ミックス</title_version>
    <title_version translation="phonetic">おりじなる みっくす</title_version>
    <title_version translation="english">original mix</title_version>
    <label_name>Groove</label_name>
    <copyright_pline>2006 グルーヴミュージック</copyright_pline>
    <beats_per_minute>110</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>1</track_number>
    <audio_file>
      <file_name>track-1.m4a</file_name>
      <size>87256393</size>
      <checksum type="md5">ddfe4b8ab433e43e7dde429df86cabb2</checksum>
    </audio_file>
    <products>
      <product>
        <territory>JP</territory>
        <wholesale_price_tier>101</wholesale_price_tier>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
      </product>
    </products>
    <artists>
      <artist>
        <name translation="native">高村晶子</name>
        <name translation="phonetic">たかむら あきこ</name>
        <name translation="english">Akiko Takamura</name>
        <roles>
          <role>Primary</role>
        </roles>
      </artist>
    </artists>
  </track>
  <track>
    <vendor_id>GB5170300040</vendor_id>
    <isrc>GB5170300040</isrc>
    <grid>A0303000011R12792B</grid>
    <title translation="native">南洋でヨイショ</title>
    <title translation="phonetic">なんよう で よいしょ</title>
    <title translation="english">Tropical Paradise</title>
    <label_name>Groove</label_name>
    <copyright_pline>2006 グルーヴミュージック</copyright_pline>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>2</track_number>
    <audio_file>
      <file_name>track-2.m4a</file_name>
      <size>85279363</size>

```



```

        <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
    </audio_file>
    <products>
        <product>
            <territory>JP</territory>
            <wholesale_price_tier>101</wholesale_price_tier>
            <cleared_for_sale>true</cleared_for_sale>
            <cleared_for_user_generated_ringtones>true
        </product>
    </products>
</track>
</tracks>
</album>
</package>

```

## Japanese Language Metadata Annotation

Only the additions for foreign language support are described.

<pre> &lt;title translation="native"&gt;真 夜中の後悔&lt;/title&gt; &lt;title translation="phonetic"&gt; まよなか の こうかい&lt;/title&gt; &lt;title translation="english"&gt;Remorse at Midnight&lt;/title&gt; </pre>	<p><b>Album Title</b> (<i>required</i>)</p> <p>The title of the album. This field stores the title in the native language (English for US, Japanese for Japan). For Japanese, this value can use a mixture of Kanji, Hiragana, Katakana and other symbols.</p> <p>Each album title entry has a set of three fields: the native name, phonetic and English name. The native name field describes the album title in the native language (English for US, Japanese for Japan) with a mixture of Kanji, Hiragana, Katakana and other symbols. The phonetic field (optional) provides the reading (furigana) of the album title in full-width Hiragana or Katakana. If any meaningful separation units exist they should be delimited using a space character. This phonetic information provides a better search experience for the user. The English album title field (optional) specifies the title using the Roman alphabet for non-native (i.e., non-Japanese) speakers. If this material is to be sold outside of its native country (i.e., Japan), this field must be provided.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> "Native" translation is equivalent to non-translation version of the same tag. Using the metadata <code>&lt;name&gt;真夜中の後悔&lt;/name&gt;</code> has the same effect as <code>&lt;name translation="native"&gt;真夜中の後悔&lt;/name&gt;</code>.</p>
--	--

<pre>&lt;sell_plus_quality&gt;&gt;false&lt;/sell_ plus_quality&gt;</pre>	<p><b>Sell Plus Quality</b> (<i>optional</i>)</p> <p>Specifies whether the album is cleared for sale of high-quality iTunes Plus DRM-free content in the territory for the product. Must be "true" or "false." If not specified, the default is "true." Note that this flag only applies to the product's territory and will be applied to every track and video included in this album.</p> <p>Remember that availability of iTunes Plus is dependent on both your contract status and the quality of the audio currently on file at iTunes. If uncompressed audio is not available, then the album in question will not be sold as iTunes Plus regardless of what the metadata specifies. The same is true if your active contract does not include iTunes Plus. Please review the audio quality status via iTunes Connect.</p>
<pre>&lt;name translation="native"&gt;高村 晶子&lt;/name&gt; &lt;name translation="phonetic"&gt;た かむら あきこ&lt;/name&gt; &lt;name translation="english"&gt;Akiko Takamura&lt;/name&gt;</pre>	<p><b>Artist Name</b> (<i>required</i>)</p> <p>The name of the artist. This field stores the title in the native language (English for US, Japanese for Japan). For Japanese, this value can use a mixture of Kanji, Hiragana, Katakana and other symbols.</p> <p>Each artist entry has a set of three fields: the native name, phonetic and English name. The native name field describes the artist name in the native language (English for US, Japanese for Japan) with a mixture of Kanji, Hiragana, Katakana and other symbols. The phonetic field (optional) provides the reading (furigana) of the artist name in full-width Hiragana or Katakana. If any meaningful separation units exist they should be delimited using a space character. This phonetic information provides a better search experience for the user. The English artist name field (optional) specifies the artist name using the Roman alphabet for non-native (i.e., non-Japanese) speakers. If this material is to be sold outside of its native country (i.e., Japan), this field must be provided.</p> <p>Artist names will appear in the iTunes Store in the order in which they are specified in the provided metadata.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> "Native" translation is equivalent to non-translation version of the same tag. Using the metadata <code>&lt;name&gt;真夜中の後悔&lt;/name&gt;</code> has the same effect as <code>&lt;name translation="native"&gt;真夜中の後悔&lt;/name&gt;</code>.</p>

<pre> &lt;title translation="native"&gt;ク ローバーテール&lt;/title&gt; &lt;title translation="phonetic"&gt; くろーばー てーる&lt;/title&gt; &lt;title translation="english"&gt;Clover Tail&lt;/title&gt; </pre>	<p><b>Track Title (required)</b></p> <p>The name of the track. This field stores the title in the native language (English for US, Japanese for Japan). For Japanese, this value can use a mixture of Kanji, Hiragana, Katakana and other symbols.</p> <p>Each track title entry has a set of three fields: the native name, phonetic and English name. The native name field describes the track title in the native language (English for US, Japanese for Japan) with a mixture of Kanji, Hiragana, Katakana and other symbols. The phonetic field (optional) provides the reading (furigana) of the track title in full-width Hiragana or Katakana. If any meaningful separation units exist they should be delimited using a space character. This phonetic information provides a better search experience for the user. The English title field (optional) specifies the title using the Roman alphabet for non-native (i.e., non-Japanese) speakers. If this material is to be sold outside of its native country (i.e., Japan), this field must be provided.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> "Native" translation is equivalent to non-translation version of the same tag. Using the metadata <code>&lt;name&gt;真夜中の後悔&lt;/name&gt;</code> has the same effect as <code>&lt;name translation="native"&gt;真夜中の後悔&lt;/name&gt;</code>.</p>
--	--

<pre>&lt;title_version translation="native"&gt;オリジナル・ ミックス&lt;/title_version&gt; &lt;title_version translation="phonetic"&gt;おりじな る みっくす&lt;/title_version&gt; &lt;title_version translation="english"&gt;original mix&lt;/title_version&gt;</pre>	<p><b>Track Title Version</b> (<i>optional</i>)</p> <p>The version title of the track. Generally used to distinguish different versions of the same song by the same artist (e.g., "Live from San Francisco", "Pump You Up Remix"). If not specified, it should not be included. If the native language is an Asian double-byte language (i.e., Japanese, Chinese) then a triplet of native, phonetic and English translation variations should be used.</p> <p>Each track title version entry has a set of three fields: the native name, phonetic and English name (just like album title). Native name field should describe the track title version in native language (English for US, Japanese for Japan) with a mixture of Kanji, Hiragana, Katakana and other symbols. The phonetic field (optional) provides the reading (furigana) of the track title version in full-width Hiragana or Katakana. If any meaningful separation units exist they should be delimited using space character. This phonetic info provides better a search experience for the user. The English track title version field (optional) provides the track title in the Roman alphabet for non-native (i.e., non-Japanese) speakers. If this material is to be sold outside of its native country (i.e., Japan), this field must be provided.</p> <p>There is a 255-byte limit strictly enforced. This is 255 7-bit characters (Roman alphabet) and as few as 71 characters if Unicode (e.g., Japanese) characters are used.</p> <p><b>Important:</b> "Native" translation is equivalent to non-translation version of the same tag. Using the metadata <code>&lt;name&gt;真夜中の後悔&lt;/name&gt;</code> has the same effect as <code>&lt;name translation="native"&gt;真夜中の後悔&lt;/name&gt;</code>.</p>
<pre>&lt;wholesale_price_ tier&gt;101&lt;/wholesale_price_tier&gt;</pre>	<p><b>Track Wholesale Price Tier</b> (<i>optional; can be updated</i>)</p> <p>The wholesale price tier for the track. Must be a valid track-level wholesale price tier number as specified in your contract with Apple.</p> <p>See <a href="#">"Table 2: Additional Wholesale Price Tiers for Japanese Content"</a> (page 104) for a list of available price tiers. Please review your contract to verify the tiers available to you for tracks. If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Contact your iTunes Technical Representative for more details.</p>

## Non-Japanese Language Metadata Example

This example shows the optional additions to metadata for non-Japanese language albums and tracks. The only difference between this and the previous example is that the "native" tag now contains English (as it is an English language album), and in place of the "English" tag (as in above), there is the "Japanese" tag containing containing Kanji, Hiragana, Katakana, or other symbols.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
```

```

<language>en-US</language>
<provider>Rightsscale</provider>
<album>
  <vendor_id>4571259130030</vendor_id>
  <upc>4571259130030</upc>
  <grid>A2B00001141030391R</grid>
  <title translation="native">Professional EP (Studio Version)</title>
  <title translation="phonetic">ぶろふえっしよなる いーびー (すたじお ぼーじょん)</title>
  <title translation="japanese">プロフェッショナル イーピー (スタジオ バージョン)</title>
  <original_release_date>2008-03-28</original_release_date>
  <label_name>Good and Evil Music</label_name>
  <genres>
    <genre>Electronic</genre>
  </genres>
  <copyright_cline>2008 Good and Evil Music</copyright_cline>
  <copyright_pline>2008 Good and Evil Music</copyright_pline>
  <artwork_files>
    <file>
      <file_name>4571259130030.jpg</file_name>
      <size>6423224</size>
      <checksum type="md5">b61544744277efacb9bf5ef97bf68f22</checksum>
    </file>
  </artwork_files>
  <liner_notes/>
  <products>
    <product>
      <territory>JP</territory>
      <wholesale_price_tier>5</wholesale_price_tier>
      <sales_start_date>2008-05-07</sales_start_date>
      <cleared_for_sale>true</cleared_for_sale>
      <sell_plus_quality>>false</sell_plus_quality>
    </product>
    <product>
      <territory>UK</territory>
      <wholesale_price_tier>5</wholesale_price_tier>
      <sales_start_date>2008-05-07</sales_start_date>
      <cleared_for_sale>true</cleared_for_sale>
      <sell_plus_quality>>false</sell_plus_quality>
    </product>
  </products>
  <artists>
    <artist>
      <name translation="native">San Serac</name>
      <name translation="phonetic">さん せらっく</name>
      <name translation="japanese">サン セラック</name>
      <roles>
        <role>Primary</role>
      </roles>
      <primary>true</primary>
    </artist>
  </artists>
  <tracks>
    <track>
      <vendor_id>JPZ920800883</vendor_id>
      <isrc>JPZ920800883</isrc>
      <grid>A2B00001030391R114</grid>
      <title translation="native">Dub Tactics</title>
      <title translation="phonetic">だぶ たくていくす</title>
    </track>
  </tracks>

```

```

<title translation="japanese">ダブ タクティクス</title>
<label_name>Good and Evil Music</label_name>
<genres>
  <genre>Electronic</genre>
</genres>
<copyright_pline>2008 Good and Evil Music</copyright_pline>
<volume_number>1</volume_number>
<track_number>4</track_number>
<audio_file>
  <file_name>JPZ920800883.wav</file_name>
  <size>38770215</size>
  <checksum type="md5">5805725942d09a7595a8daa924e063ca</checksum>
</audio_file>
<preview_start_index>115</preview_start_index>
<artists>
  <artist>
    <name translation="native">San Serac</name>
    <name translation="phonetic">さん せらく</name>
    <name translation="japanese">サン セラック</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name translation="native">Nat Rabb</name>
    <name translation="phonetic">なっと らぶ</name>
    <name translation="japanese">ナット ラブ</name>
    <roles>
      <role>Composer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>
<products>
  <product>
    <territory>JP</territory>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
  <product>
    <territory>UK</territory>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
</products>
</track>
<track>
  <vendor_id>JPZ920800880</vendor_id>
  <isrc>JPZ920800880</isrc>
  <grid>A2B00001030391R119</grid>
  <title translation="native">Professional Dub</title>
  <title translation="phonetic">ぶろふえっしょなる だぶ</title>
  <title translation="japanese">プロフェッショナル ダブ</title>
  <label_name>Good and Evil Music</label_name>
  <genres>
    <genre>Electronic</genre>
  </genres>
  <copyright_pline>2008 Good and Evil Music</copyright_pline>
  <explicit_content>clean</explicit_content>

```

```

<volume_number>1</volume_number>
<track_number>1</track_number>
<audio_file>
  <file_name>JPZ920800880.wav</file_name>
  <size>38770214</size>
  <checksum type="md5">32243139a5bfedc10698d8be08cc5db5</checksum>
</audio_file>
<preview_start_index>14</preview_start_index>
<artists>
  <artist>
    <name translation="native">San Serac</name>
    <name translation="phonetic">さん せらく</name>
    <name translation="japanese">サン セラック</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name translation="native">Nat Rabb</name>
    <name translation="phonetic">なっと らぶ</name>
    <name translation="japanese">ナット ラブ</name>
    <roles>
      <role>Composer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>
<products>
  <product>
    <territory>JP</territory>
    <wholesale_price_tier>101</wholesale_price_tier>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
</products>
</track>
<track>
  <vendor_id>JPZ920800882</vendor_id>
  <isrc>JPZ920800882</isrc>
  <grid>A2B00001030391R115</grid>
  <title translation="native">Professional - Popular Computer remix</title>
  <title translation="phonetic">ぷろふえっしょなる ぽぴゅらー りみっくす</title>
  ミックス</title>
  <title translation="japanese">プロフェッショナル ポピュラー コンピューター リ
  <label_name>Good and Evil Music</label_name>
  <genres>
    <genre>Electronic</genre>
  </genres>
  <copyright_pline>2008 Good and Evil Music</copyright_pline>
  <volume_number>1</volume_number>
  <track_number>3</track_number>
  <audio_file>
    <file_name>JPZ920800882.wav</file_name>
    <size>26556214</size>
    <checksum type="md5">8a893bff0ece589c8e9b6e8e01f62f10</checksum>
  </audio_file>
  <preview_start_index>48</preview_start_index>
  <artists>

```

```

<artist>
  <name translation="native">San Serac</name>
  <name translation="phonetic">さん せらく</name>
  <name translation="japanese">サン セラック</name>
  <roles>
    <role>Performer</role>
  </roles>
  <primary>true</primary>
</artist>
<artist>
  <name translation="native">Nat Rabb</name>
  <name translation="phonetic">なっと らぶ</name>
  <name translation="japanese">ナット ラブ</name>
  <roles>
    <role>Lyricist</role>
  </roles>
  <primary>false</primary>
</artist>
<artist>
  <name translation="native">Nat Rabb</name>
  <name translation="phonetic">なっと らぶ</name>
  <name translation="japanese">ナット ラブ</name>
  <roles>
    <role>Composer</role>
  </roles>
  <primary>false</primary>
</artist>
</artists>
<products>
  <product>
    <territory>JP</territory>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
  <product>
    <territory>UK</territory>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
</products>
</track>
</tracks>
</album>
</package>

```

## Bonus Material

One or more pieces of bonus material may optionally be included with an album. See the *Asset Specification Guide* for details regarding acceptable file types and other relevant details.

Please note that bonus material of any type or file extension other than those specified in the *Asset Specification Guide* will be rejected, and the entire associated package will fail import.

Bonus material is described in the album package's `metadata.xml` file by adding a `<bonus_material>` XML element. There must be one `<bonus_material>` element for each bonus material file added.



## Bonus Material Asset

---

The asset is the actual file that will be downloaded from the iTunes Store and is delivered to Apple in the same way as audio track assets: it must be included in the package directory alongside the metadata and audio, and must be referenced in the metadata.xml file. Bonus material automatically appears as the last track on the last volume of an album.

However, unlike for-sale track assets, bonus material assets do not have FairPlay DRM applied to them. The customer can only obtain the bonus material by purchasing the entire associated album, and after initial purchase, its use is not controlled.

**Important:** PDF booklets are currently the only accepted type of bonus material. Albums containing QuickTime movie assets will be rejected at time of delivery.

## Bonus Material Metadata Example

---

In this example, a PDF document is delivered in an iTunes Package as a piece of bonus material.

The additional XML for the bonus material is shown in bold below. Some of the elements are optional. See the annotation below for details.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
      <genre>World</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>6836623</size>
        <checksum type="md5">ffa9327b444559d4d72312b2c7d660ff</checksum>
      </file>
    </artwork_files>
    <volume_count>1</volume_count>
    <track_count>2</track_count>
    <products>
      <product>
        <territory>GB</territory>
        <wholesale_price_tier>3</wholesale_price_tier>
        <sales_start_date>2004-10-22</sales_start_date>
        <cleared_for_sale>true</cleared_for_sale>
      </product>
    </products>
  </album>
</package>
```

```

    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
  </product>
</product>
  <territory>IE</territory>
  <wholesale_price_tier>3</wholesale_price_tier>
  <sales_start_date>2004-10-22</sales_start_date>
  <cleared_for_sale>true</cleared_for_sale>
  <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
</product>
</products>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name>Tiefshwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
  <artist>
    <name>Ewan Pearson</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>
<tracks>
  <track>
    <vendor_id>GBBFT0501345_9083</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A10302B00002427998</grid>
    <title>The Pleasure Is All Mine</title>
    <title_version>Radio Version</title_version>
    <gapless_play>true</gapless_play>
    <genres>
      <genre>Electronic</genre>
      <genre>World</genre>
    </genres>
    <products>
      <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
      </product>
      <product>
        <territory>IE</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
      </product>
    </products>
  </track>
</tracks>

```

```

</products>
<label_name>One Little Indian</label_name>
<copyright_pline>2004 One Little Indian</copyright_pline>
<explicit_content>clean</explicit_content>
<beats_per_minute>120</beats_per_minute>
<volume_number>1</volume_number>
<track_number>1</track_number>
<audio_file>
  <file_name>pleasure.m4a</file_name>
  <size>26556655</size>
  <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda</checksum>
</audio_file>
<preview_start_index>30</preview_start_index>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>>true</primary>
  </artist>
  <artist>
    <name>Tiefschwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>>false</primary>
  </artist>
</artists>
</track>
<track>
  <vendor_id>GBBFT0460211_2369</vendor_id>
  <isrc>GBBFT0460211</isrc>
  <title>The Pleasure Is All Mine</title>
  <title_version>DJ Dan Remix</title_version>
  <gapless_play>>false</gapless_play>
  <genres>
    <genre>Electronic</genre>
    <genre>World</genre>
  </genres>
  <products>
    <product>
      <territory>GB</territory>
      <cleared_for_sale>>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>>true
</cleared_for_user_generated_ringtones>
    </product>
    <product>
      <territory>IE</territory>
      <cleared_for_sale>>true</cleared_for_sale>
      <cleared_for_user_generated_ringtones>>true
</cleared_for_user_generated_ringtones>
    </product>
  </products>
  <label_name>One Little Indian</label_name>
  <copyright_pline>2004 One Little Indian</copyright_pline>
  <explicit_content>clean</explicit_content>
  <beats_per_minute>120</beats_per_minute>

```

```

<volume_number>1</volume_number>
<track_number>2</track_number>
<audio_file>
  <file_name>pleasure_remix.m4a</file_name>
  <size>38770214</size>
  <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
</audio_file>
<preview_start_index>30</preview_start_index>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
  <artist>
    <name>Tiefschwarz</name>
    <roles>
      <role>Producer</role>
    </roles>
    <primary>false</primary>
  </artist>
</artists>
</track>
<bonus_material>
  <vendor_identifier>GBBFT0501345</vendor_identifier>
  <bonus_material_name>Digital Booklet - Medúlla</bonus_material_name>
  <copyright>2004 One Little Indian</copyright>
  <file>
    <file_name>booklet.pdf</file_name>
    <size>7243623</size>
    <checksum type="md5">ddfe4b8ab433e43e7dde429df86cabb2</checksum>
  </file>
</bonus_material>
</tracks>
</album>
</package>

```

## Bonus Material Metadata Annotation

Only the additional elements added for bonus material are described. Items marked "required" below are required only if bonus material is to be included.

<bonus_material>	<p><b>Bonus Material</b> (<i>required</i>)</p> <p>Identifies an item of bonus material within the metadata. Any number of bonus material items may be included in a package.</p>
------------------	--

<pre>&lt;vendor_identifier&gt;GBBFT0501345&lt;/vendor_ identifier&gt;</pre>	<p><b>Vendor Identifier</b> (<i>optional</i>)</p> <p>A unique and unchanging identifier for this item of bonus material. Only has to be unique with respect to the vendor identifiers of any other bonus material included in the same package.</p> <p>If a <code>&lt;vendor_identifier&gt;</code> is not specified, the file name of the bonus asset is used as the vendor identifier. This identifier may not be changed. It is recommended that a <code>&lt;vendor_identifier&gt;</code> always be specified.</p> <p><b>Important:</b> Vendor identifiers may only contain alphanumeric characters and the underscore mark; they may not contain spaces, other punctuation or symbols, and must not start with an underscore. The vendor identifier is case-sensitive.</p>
<pre>&lt;bonus_material_name&gt;Digital Booklet - Medúlla&lt;/bonus_material_name&gt;</pre>	<p><b>Name</b> (<i>required</i>)</p> <p>The name of the bonus material, as it will appear in the iTunes Store.</p> <p>The naming convention for PDF booklets is "Digital Booklet - album name"</p> <p><b>Important:</b> Language translations are not supported at this time.</p>
<pre>&lt;copyright&gt;2004 One Little Indian&lt;/copyright&gt;</pre>	<p><b>Copyright</b> (<i>required</i>)</p> <p>The copyright of the bonus material, as it will appear in the iTunes Store.</p>
<pre>&lt;file&gt;   &lt;file_name&gt;booklet.pdf&lt;/file_name&gt;   &lt;size&gt;7243623&lt;/size&gt;   &lt;checksum type="md5"&gt;ddfe4b8ab433e43e7dde429df86cabb2 &lt;/checksum&gt; &lt;/file&gt;</pre>	<p><b>File</b> (<i>optional; can be updated</i>)</p> <p>Information identifying the file within the package that contains the actual asset (downloadable file) that constitutes the bonus material.</p> <p>This element and all sub-elements are optional as it is permitted to initially deliver the bonus material metadata and then deliver the asset in a subsequent package update. See the next section below for more information regarding updates.</p> <p>When the <code>&lt;file&gt;</code> element is present, the <code>&lt;file_name&gt;</code>, <code>&lt;size&gt;</code>, and <code>&lt;checksum&gt;</code> elements are required. See the annotation of these elements in the <a href="#">“Basic Music Album Metadata Annotated”</a> (page 18) for details of their contents.</p>
<pre>&lt;/bonus_material&gt;</pre>	

## Pre-Orders

An album is eligible for automated pre-order for one or more territories when the `<preorder_sales_start_date>` tag is included in the metadata for each territory (album product) in which the pre-order should be offered. The pre-order will not appear in the store automatically, however, it must first be activated by Apple before it will go live.

There are two delivery options for pre-orders:

1. "Metadata-only," delivering just the metadata with pre-order information and then delivering the assets at a later date.
2. "Asset-complete," delivering all assets required in the initial content delivery.

Once it is activated, the pre-order becomes available on the date specified in all territories that have a `<preorder_sales_start_date>`. Optionally available are `<preorder_previews>` which provide the same song and video previews for pre-orders as are available for all products in the Store.

When the pre-order period ends, the pre-orders fulfill on the `<sales_start_date>`, or "street date," for each territory.

Any album track or piece of bonus material may be designated as "pre-order only," meaning that it will only be received by customers who purchase the album as a pre-order. Note that the `<preorder_type>` flag is specified at the track-level, rather than at the level of album products. Therefore, when `<preorder_type>preorder_only</preorder_type>` is used, items become pre-order only in all territories where a pre-order is available.

**Important:** Pre-order only tracks must appear at the end of an album. If they are not, all tracks following the pre-order only content will not appear in the Store. Only `<bonus_material>` can appear after pre-order only content.

## Asset-Complete Pre-Order Metadata Example

---

This example shows a global pre-order, with two audio tracks, a pre-order only video track and a bonus material booklet.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
```

```

<copyright_cline>2004 One Little Indian</copyright_cline>
<artwork_files>
  <file>
    <file_name>cover.jpg</file_name>
    <size>6528853</size>
    <checksum_type="md5"> ffa9327b444559d4d72312b2c7d660ff</checksum>
  </file>
</artwork_files>
<volume_count>1</volume_count>
<track_count>2</track_count>
<preorder_previews>true</preorder_previews>
<products>
  <product>
    <territory>WW</territory>
    <wholesale_price_tier>3</wholesale_price_tier>
    <sales_start_date>2004-10-22</sales_start_date>
    <preorder_sales_start_date>2004-10-01</preorder_sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
  </product>
</products>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
</artists>
<tracks>
  <track>
    <vendor_id>5099749642829_GBBFT0501345</vendor_id>
    <isrc>GBBFT0501345</isrc>
    <grid>A10302B00002427998</grid>
    <title>The Pleasure Is All Mine</title>
    <title_version>Radio Version</title_version>
    <gapless_play>true</gapless_play>
    <genres>
      <genre>Electronic</genre>
    </genres>
    <products>
      <product>
        <territory>WW</territory>
        <cleared_for_sale>true</cleared_for_sale>
      </product>
    </products>
    <preorder_type>standard</preorder_type>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <explicit_content>clean</explicit_content>
    <lyrics>These are the lyrics to the song.</lyrics>
    <liner_notes>These are the track liner notes. </liner_notes>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>1</track_number>
    <audio_file>
      <file_name>pleasure.m4a</file_name>

```

```

        <size>26556655</size>
        <checksum type="md5"> 6ddabb680edae6bf2ec84ffcfa730fda</checksum>
    </audio_file>
    <preview_start_index>30</preview_start_index>
    <artists>
        <artist>
            <name>Björk</name>
            <roles>
                <role>Performer</role>
            </roles>
            <primary>true</primary>
        </artist>
    </artists>
</track>
<track>
    <vendor_id>5099749642829_GBBFT0460211</vendor_id>
    <isrc>GBBFT0460211</isrc>
    <title>The Pleasure Is All Mine</title>
    <title_version>DJ Dan Remix</title_version>
    <gapless_play>false</gapless_play>
    <genres>
        <genre>Electronic</genre>
    </genres>
    <products>
        <product>
            <territory>WW</territory>
            <cleared_for_sale>true</cleared_for_sale>
            <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
        </product>
    </products>
    <preorder_type>standard</preorder_type>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>2</track_number>
    <audio_file>
        <file_name>pleasure_remix.m4a</file_name>
        <size>38770214</size>
        <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4</checksum>
    </audio_file>
    <preview_start_index>30</preview_start_index>
    <artists>
        <artist>
            <name>Björk</name>
            <roles>
                <role>Performer</role>
            </roles>
            <primary>true</primary>
        </artist>
    </artists>
</track>
<video>
    <vendor_id>GB5170300040</vendor_id>
    <grid>A10302B00002427998</grid>
    <upc>825646307760</upc>
    <isrc>GB5170300040</isrc>

```



```

<title>The Pleasure Is All Mine</title>
<title_version>Radio Version</title_version>
<release_date>2004-10-22</release_date>
<label_name>Warner Music</label_name>
<genres>
  <genre>Electronic</genre>
</genres>
<copyright_cline>2003 Warner Music</copyright_cline>
<copyright_pline>2003 Warner Music</copyright_pline>
<explicit_content>clean</explicit_content>
<assets>
  <asset type="full">
    <data_file role="source">
      <file_name>GB5170300040.mpg</file_name>
      <size>93664213</size>
      <checksum
type="md5">38cba368bd1fdf57cc7d3e44a59e4da4</checksum>
    </data_file>
  </asset>
  <asset type="artwork">
    <data_file>
      <file_name>videoart.jpg</file_name>
      <size>6423613</size>
      <checksum
type="md5">ddfe4b8ab433e43e7dde429df86cabb2</checksum>
    </data_file>
  </asset>
</assets>
<products>
  <product>
    <territory>WW</territory>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
  </product>
</products>
<preorder_type>preorder only</preorder_type>
<artists>
  <artist>
    <name>Björk</name>
    <roles>
      <role>Performer</role>
    </roles>
    <primary>true</primary>
  </artist>
</artists>
</video>
<bonus_material>
  <vendor_identifier>GBBFT0501345</vendor_identifier>
  <bonus_material_name>Digital Booklet - Medúlla</bonus_material_name>
  <copyright>2004 One Little Indian</copyright>
  <file>
    <file_name>booklet.pdf</file_name>
    <size>9651488</size>
    <checksum type="md5">ddfe4b8ab433e43e7dde429df86cabb2</checksum>
  </file>
</bonus_material>
</tracks>

```

```
</album>
</package>
```

## Asset-Complete Pre-Order Metadata Annotation

Only the additional elements added for pre-orders are described.

<b>Album Metadata Field</b>	
<pre>&lt;preorder_previews&gt;true&lt;/preorder_previews&gt;</pre>	<p><b>Pre-order Preview Availability</b> (<i>optional; can be updated</i>)</p> <p>Indicates whether or not a pre-order's media will be available for preview during the pre-order period. Note that this only affects preview availability during the pre-order period. When the pre-order ends and album is released for sale, previews will be available regardless of this flag.</p> <p>Allowed values are "true" and "false." If the <code>&lt;preorder_previews&gt;</code> tag is omitted in an initial upload, it is assumed false and previews will not be available during the pre-order period. If this tag is omitted in an update, it is interpreted to mean no change to the value originally sent.</p> <p><b>Important:</b> This tag is available at the album-level only, and applies to every territory and every track.</p>
<b>Album Product Metadata Field</b>	
<pre>&lt;preorder_sales_start_date&gt;2006-04-6&lt;/preorder_sales_start_date&gt;</pre>	<p><b>Pre-order Sales Start Date</b> (<i>optional</i>)</p> <p>Indicates the date on which a pre-order should become available in the specified territory.</p> <p>The pre-order ends (and fulfills) on the <code>&lt;sales_start_date&gt;</code> of each territory.</p> <p>If a <code>&lt;preorder_sales_start_date&gt;</code> is not specified for a given territory's album product then the pre-order will not be available in that territory. The presence of this element therefore enables pre-ordering on a per-territory (product) basis.</p> <p>The <code>&lt;preorder_sales_start_date&gt;</code> tag cannot be updated, but additional territories can be added in an update.</p>
<b>Track Metadata Field</b>	

<pre>&lt;preorder_type&gt;preorder only&lt;/preorder_type&gt;</pre>	<p><b>Pre-Order Type</b> (<i>optional</i>)</p> <p>Indicates how this track or video will be treated in a pre-order situation. Available options are “preorder only” where a track will only be available as part of the pre-order and will not appear on the album after street date; and “standard” where the track or video will appear normally on the album and all customers may purchase it.</p> <p>“Preorder only” tracks must appear at the end of an album. If they are not, all tracks following the pre-order only content will not appear in the Store.</p> <p>If “Preorder only” is not included or specified, “Standard” is assumed and the track or video will be available both during and after the pre-order period.</p>
---	--

## Metadata-Only Pre-Order Metadata Example

This example shows the same global pre-order as above, but without audio, video or bonus material assets included. There are no other differences, and therefore no further explanations are included. Note that cover art is still required.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>6591649</size>
        <checksum type="md5">ffa9327b444559d4d72312b2c7d660ff</checksum>
      </file>
    </artwork_files>
    <volume_count>1</volume_count>
    <track_count>2</track_count>
    <preorder_previews>true</preorder_previews>
  </album>
  <products>
    <product>
      <territory>WW</territory>
      <wholesale_price_tier>3</wholesale_price_tier>
      <sales_start_date>2004-10-22</sales_start_date>
      <preorder_sales_start_date>2004-10-01</preorder_sales_start_date>
    </product>
  </products>
</package>
```

```

        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
    </product>
</products>
<artists>
    <artist>
        <name>Björk</name>
        <roles>
            <role>Performer</role>
        </roles>
        <primary>true</primary>
    </artist>
</artists>
<tracks>
    <track>
        <vendor_id>5099749642829_GBBFT0501345</vendor_id>
        <isrc>GBBFT0501345</isrc>
        <grid>A10302B00002427998</grid>
        <title>The Pleasure Is All Mine</title>
        <title_version>Radio Version</title_version>
        <gapless_play>true</gapless_play>
        <genres>
            <genre>Electronic</genre>
        </genres>
        <products>
            <product>
                <territory>WW</territory>
                <cleared_for_sale>true</cleared_for_sale>
            </product>
        </products>
        <preorder_type>standard</preorder_type>
        <label_name>One Little Indian</label_name>
        <copyright_pline>2004 One Little Indian</copyright_pline>
        <explicit_content>clean</explicit_content>
        <lyrics>These are the lyrics to the song.</lyrics>
        <liner_notes>These are the track liner notes. </liner_notes>
        <beats_per_minute>120</beats_per_minute>
        <volume_number>1</volume_number>
        <track_number>1</track_number>
        <preview_start_index>30</preview_start_index>
        <artists>
            <artist>
                <name>Björk</name>
                <roles>
                    <role>Performer</role>
                </roles>
                <primary>true</primary>
            </artist>
        </artists>
    </track>
    <track>
        <vendor_id>5099749642829_GBBFT0460211</vendor_id>
        <isrc>GBBFT0460211</isrc>
        <title>The Pleasure Is All Mine</title>
        <title_version>DJ Dan Remix</title_version>
        <gapless_play>false</gapless_play>
        <genres>
            <genre>Electronic</genre>

```

```

    </genres>
    <products>
      <product>
        <territory>WW</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
      </product>
    </products>
    <preorder_type>standard</preorder_type>
    <label_name>One Little Indian</label_name>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <beats_per_minute>120</beats_per_minute>
    <volume_number>1</volume_number>
    <track_number>2</track_number>
    <preview_start_index>30</preview_start_index>
    <artists>
      <artist>
        <name>Björk</name>
        <roles>
          <role>Performer</role>
        </roles>
        <primary>true</primary>
      </artist>
    </artists>
  </track>
  <video>
    <vendor_id>GB5170300040</vendor_id>
    <grid>A10302B00002427998</grid>
    <upc>825646307760</upc>
    <isrc>GB5170300040</isrc>
    <title>The Pleasure Is All Mine</title>
    <title_version>Radio Version</title_version>
    <release_date>2004-10-22</release_date>
    <label_name>Warner Music</label_name>
    <genres>
      <genre>Electronic</genre>
    </genres>
    <copyright_cline>2003 Warner Music</copyright_cline>
    <copyright_pline>2003 Warner Music</copyright_pline>
    <explicit_content>clean</explicit_content>
    <track_number>3</track_number>
    <products>
      <product>
        <territory>WW</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
</cleared_for_user_generated_ringtones>
      </product>
    </products>
    <preorder_type>preorder only</preorder_type>
    <artists>
      <artist>
        <name>Björk</name>
        <roles>
          <role>Performer</role>
        </roles>
        <primary>true</primary>

```

```

        </artist>
    </artists>
</video>
<bonus_material>
    <vendor_identifier>GBBFT0501345</vendor_identifier>
    <bonus_material_name>Digital Booklet - Medúlla</bonus_material_name>
    <copyright>2004 One Little Indian</copyright>
</bonus_material>
</tracks>
</album>
</package>

```

## Classical Works Support

This is used exclusively for classical titles, where the work uniquely defines a complete classical composition containing two or more tracks.

Standard examples of works are concertos, sonatas and symphonies which can be divided into individual movements at the track level. The `<work>` element is used to define the name and content of each "work" and includes all tracks contained in the given work. For example, "Symphony No. 5 in C Minor, Op. 55" would be the work name for Beethoven's 5th Symphony and all four movements would then be bundled together for a customer to purchase independently of the album.

Please note that not all classical pieces are classified as "works." For example, opera arias, overtures and incomplete selections from a ballet or suite may not use this functionality and doing so will increase processing time.

If there are multiple complete works on a given album—in this case, Beethoven's 5th Symphony paired with the 5th Piano Concerto—there would be two separate `<work>` elements in the metadata.xml:

### Work 1: Symphony No. 5 in C Minor, Op. 67

- Track 1: Symphony No. 5 in C Minor, Op. 67: I. Allegro con brio
- Track 2: Symphony No. 5 in C Minor, Op. 67: II. Andante con moto
- Track 3: Symphony No. 5 in C Minor, Op. 67: III. Allegro
- Track 4: Symphony No. 5 in C Minor, Op. 67: IV. Allegro

### Work 2: Piano Concerto No. 5 in E-Flat Major, Op. 73 - "Emperor"

- Track 5: Piano Concerto No. 5 in E-Flat Major, Op. 73 - "Emperor": I. Allegro
- Track 6: Piano Concerto No. 5 in E-Flat Major, Op. 73 - "Emperor": II. Adagio
- Track 7: Piano Concerto No. 5 in E-Flat Major, Op. 73 - "Emperor": III. Rondo

For albums with multiple works (e.g., a collection of Piano Sonatas), all the collected tracks within a given work need to be sequential on the album and all the specified works must be complete (i.e., have all tracks present). If a sonata is recorded *attaca* (i.e., a three-movement work recorded as a single track running 12 minutes), this should not be regarded as a work.

For further details on abbreviations and album style standards see the *iTunes Style Guide*.

## Classical Works Metadata Example

---

Additions for works support are printed in bold>.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>IODA</provider>
  <album>
    <upc>723721237257</upc>
    <title>Excursions: Piano Music From Barber and Bauer (Remastered)</title>
    <original_release_date>2006-09-12</original_release_date>
    <label_name>Endeavour Classics</label_name>
    <genres>
      <genre>Classical</genre>
    </genres>
    <copyright_pline>2006 Endeavour Classics</copyright_pline>
    <copyright_cline>2006 Endeavour Classics</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>6591649</size>
        <checksum type="md5">0e3878dce4edc81a0368d01879f7e948</checksum>
      </file>
    </artwork_files>
    <volume_count>1</volume_count>
    <track_count>5</track_count>
    <products>
      <product>
        <territory>WW</territory>
        <wholesale_price_tier>3</wholesale_price_tier>
        <sales_start_date>2006-09-12</sales_start_date>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
      </product>
    </products>
    <artists>
      <artist>
        <name>Stephen Beus</name>
        <primary>true</primary>
        <roles>
          <role>Performer</role>
        </roles>
      </artist>
      <artist>
        <name>Samuel Barber</name>
        <primary>>false</primary>
        <roles>
          <role>Composer</role>
        </roles>
      </artist>
      <artist>
        <name>Marion Bauer</name>
        <primary>>false</primary>
        <roles>
          <role>Composer</role>
        </roles>
      </artist>
    </artists>
  </album>
</package>
```

```

    </artist>
  </artists>
  <tracks>
    <work name="Sonata in E-flat Minor, Op. 26">
      <track>
        <isrc>US89R0692262</isrc>
        <title>Sonata in E-flat Minor, Op. 26: I. Allergro energico</title>
        <label_name>Endeavour Classics</label_name>
        <copyright_pline>2006 Endeavour Classics </copyright_pline>
        <genres>
          <genre>Classical</genre>
        </genres>
        <volume_number>1</volume_number>
        <track_number>1</track_number>
        <audio_file>
          <file_name>track-1.m4a</file_name>
          <size>87256392</size>
          <checksum type="md5">4d2b3bfda95809187580d08272a9af94</checksum>
        </audio_file>
        <products>
          <product>
            <territory>WW</territory>
            <cleared_for_sale>true</cleared_for_sale>
          </product>
        </products>
        <artists>
          <artist>
            <name>Stephen Beus</name>
            <primary>true</primary>
            <roles>
              <role>Performer</role>
            </roles>
          </artist>
          <artist>
            <name>Samuel Barber</name>
            <primary>false</primary>
            <roles>
              <role>Composer</role>
            </roles>
          </artist>
        </artists>
      </track>
      <track>
        <isrc>US89R0692263</isrc>
        <title>Sonata in E-flat Minor, Op. 26: II. Allegro vivace e
leggiero</title>
        <label_name>Endeavor Classics</label_name>
        <copyright_pline>2006 Endeavor Classics </copyright_pline>
        <genres>
          <genre>Classical</genre>
        </genres>
        <volume_number>1</volume_number>
        <track_number>2</track_number>
        <audio_file>
          <file_name>track-2.m4a</file_name>
          <size>85279363</size>
          <checksum type="md5">e6a27c8fced2c6549664e47e571d9631</checksum>
        </audio_file>
      </track>
    </work>
  </tracks>

```



```

<products>
  <product>
    <territory>WW</territory>
    <cleared_for_sale>true</cleared_for_sale>
  </product>
</products>
<artists>
  <artist>
    <name>Stephen Beus</name>
    <primary>true</primary>
    <roles>
      <role>Performer</role>
    </roles>
  </artist>
  <artist>
    <name>Samuel Barber</name>
    <primary>false</primary>
    <roles>
      <role>Composer</role>
    </roles>
  </artist>
</artists>
</track>
<track>
  <isrc>US89R0692263</isrc>
  <title>Sonata in E-flat Minor, Op. 26: III. Adagio mesto</title>
  <title_version>Digital Remaster</title_version>
  <label_name>Endeavour Classics</label_name>
  <copyright_pline>2006 Endeavour Classics </copyright_pline>
  <genres>
    <genre>Classical</genre>
  </genres>
  <volume_number>1</volume_number>
  <track_number>3</track_number>
  <audio_file>
    <file_name>track-3.m4a</file_name>
    <size>93638527</size>
    <checksum type="md5">e6a27c8fced2c6549664e47e571d9631</checksum>
  </audio_file>
  <products>
    <product>
      <territory>WW</territory>
      <cleared_for_sale>true</cleared_for_sale>
    </product>
  </products>
  <artists>
    <artist>
      <name>Stephen Beus</name>
      <primary>true</primary>
      <roles>
        <role>Performer</role>
      </roles>
    </artist>
    <artist>
      <name>Samuel Barber</name>
      <primary>false</primary>
      <roles>
        <role>Composer</role>
      </roles>
    </artist>
  </artists>

```

```

        </roles>
      </artist>
    </artists>
  </track>
  <track>
    <isrc>US89R0692264</isrc>
    <title>Sonata in E-flat Minor, Op. 26: IV. Fuga: Allegro con
spirito</title>
    <title_version>Digital Remaster</title_version>
    <label_name>Endeavour Classics</label_name>
    <copyright_pline>2006 Endeavour Classics </copyright_pline>
    <genres>
      <genre>Classical</genre>
    </genres>
    <volume_number>1</volume_number>
    <track_number>4</track_number>
    <audio_file>
      <file_name>track-4.m4a</file_name>
      <size>74526489</size>
      <checksum type="md5">0cb55d875a955adf77a073dc8af9d397</checksum>
    </audio_file>
    <products>
      <product>
        <territory>WW</territory>
        <cleared_for_sale>true</cleared_for_sale>
      </product>
    </products>
    <artists>
      <artist>
        <name>Stephen Beus</name>
        <primary>true</primary>
        <roles>
          <role>Performer</role>
        </roles>
      </artist>
      <artist>
        <name>Samuel Barber</name>
        <primary>false</primary>
        <roles>
          <role>Composer</role>
        </roles>
      </artist>
    </artists>
  </track>
</work>
<track>
  <isrc>US89R0692265</isrc>
  <title>Violin Concerto, Op. 52</title>
  <title_version>Digital Remaster</title_version>
  <label_name>Endeavour Classics</label_name>
  <copyright_pline>2006 Endeavour Classics</copyright_pline>
  <genres>
    <genre>Classical</genre>
  </genres>
  <volume_number>1</volume_number>
  <track_number>5</track_number>
  <audio_file>
    <file_name>track-5.m4a</file_name>

```

```

        <size>88341356</size>
        <checksum type="md5">7d338c611ba0e9fb34d610f919375239</checksum>
    </audio_file>
    <products>
        <product>
            <territory>WW</territory>
            <cleared_for_sale>true</cleared_for_sale>
        </product>
    </products>
    <artists>
        <artist>
            <name>Stephen Beus</name>
            <primary>true</primary>
            <roles>
                <role>Performer</role>
            </roles>
        </artist>
        <artist>
            <name>Samuel Barber</name>
            <primary>false</primary>
            <roles>
                <role>Composer</role>
            </roles>
        </artist>
    </artists>
</track>
</tracks>
</album>
</package>

```

## Classical Work Metadata Annotation

<pre>&lt;work name="Sonata in E-flat Minor, Op. 26"&gt;</pre>	<p><b>Work (optional)</b></p> <p>Longer music such as concertos or symphonies are divided into movements, or "works." This element is used exclusively for classical titles to define the name and content of each "work," and includes all tracks in that work as in the above example.</p> <p>You may define multiple works on an album, and not all tracks on the album must be part of a work, but all tracks within a given work must be sequential and the work must be complete (i.e., not missing any tracks).</p> <p><b>Important:</b> If using this element, a name is required.</p>
---	--



# Interval Pricing

---

## Overview

This chapter specifies the iTunes Package format for delivering pricing in an interval format. Using interval pricing, you can set prices over an unlimited number of specific time periods. Interval pricing, if used, replaces the previous pricing model.

This chapter describes the `metadata.xml` for delivering interval pricing only. To see the complete annotations, see [“Basic Music Album Metadata Annotated”](#) (page 18). For questions, contact your iTunes Technical Representative.

**Note:** Interval pricing is not supported for iTunes Pass because the content is delivered over a specific timeframe for a pre-determined price.

## Interval Pricing

Interval pricing allows an album's wholesale pricing to automatically change during specific periods of time. This is especially useful for sales and other promotions that require temporary or permanent pricing changes on pre-determined dates.

- Intervals may be delivered at any time for up to one year into the future.
- An unlimited number of intervals are allowed; however, for each interval, there is a period of several hours where the product will be unavailable for sale while the price is changed.
- Once intervals are delivered for a given product, the classic pricing model (as outlined in the above Basic Music Album example) may no longer be used. This provides a transition platform for moving to the new specification for older deliveries.
- When an interval concludes and no new interval is specified, the product may become unavailable in the associated territory if no "base price" is specified. Base prices are specified by delivering an interval with a beginning but no end date.
- Intervals are date-specific and not time-specific. New intervals start at midnight in the territory in which they are specified.
- The minimum interval duration is one day, and each change will take several hours to appear in the store while the cache is updated.
- In order to transition between two intervals, a new interval must always begin on the same date as the end of the previous one. In the case of intervals that have no end date, the interval with the later start date will take precedence (see below example).
- If two intervals overlap, the last interval specified in a given metadata update will take precedence.
- Product updates should contain all known pricing intervals from date of delivery forward.

## Interval Pricing Examples

---

Intervals may start and end on any date; the intervals below start and end on the first day of the month for ease of explanation.

### Example 1:

---

Two intervals are provided, both without end dates:

Interval	Start Date	End Date	Wholesale Price Tier
1	2008-05-01	Unspecified	3
2	2008-10-01	Unspecified	2

These two intervals as supplied, in a timeline-like format:

May	June	July	August	September	October	November	December	January
Tier 3								
					Tier 2			

All intervals are collapsed into a single timeline when processed by iTunes. The above two intervals will therefore collapse into the following:

May	June	July	August	September	October	November	December	January
Tier 3					Tier 3			
					Tier 2			

### Example 2

---

Two intervals are provided, the second specified in the metadata has an end date, while the first has none.

Interval	Start Date	End Date	Wholesale Price Tier
1	2008-05-01	Unspecified	3
2	2008-10-01	2008-11-01	2

The intervals as supplied:

May	June	July	August	September	October	November	December	January
Tier 3								
					Tier 2	Tier 2		

## CHAPTER 3

### Interval Pricing

In this case, a smaller interval overlaps an unending one, therefore, this happens:

May	June	July	August	September	October	November	December	January
Tier 3	Tier 3	Tier 3	Tier 3	Tier 3	Tier 3 Tier 2	Tier 3 Tier 2	Tier 3	Tier 3

#### Example 3

---

Two price intervals are specified. One with a start and end date and one is open-ended:

Interval	Start Date	End Date	Wholesale Price Tier
1	2008-10-01	2008-12-01	2
2	2008-05-01	Unspecified	3

These are the intervals as supplied:

May	June	July	August	September	October	November	December	January
					Tier 2	Tier 2		
Tier 3								

Since the intervals are read in order, if they send the smaller one first, the pricing intervals function as follows:

May	June	July	August	September	October	November	December	January
Tier 3								

**Example 4**

Three tiers are specified. Two with a start and end date and one is open-ended. This is the safest way to deliver intervals, as it ensures that pricing changes as expected.

Interval	Start Date	End Date	Wholesale Price Tier
1	2008-05-01	2008-10-01	3
2	2008-10-01	2008-11-01	2
3	2008-11-01	Unspecified	3

The intervals as supplied:

May	June	July	August	September	October	November	December	January
Tier 3								
					Tier 2			
						Tier 3		

The intervals as implemented:

May	June	July	August	September	October	November	December	January
Tier 3					Tier 2	Tier 3		

**Interval Pricing Update Example**

All intervals supplied in metadata updates will be applied in the same manner as above.

**Example**

Three intervals currently exist in the iTunes database (as created by previous deliveries):

May	June	July	August	September	October	November	December	January
Tier 3					Tier 2	Tier 3		

Two intervals are provided in a metadata update:

Interval	Start Date	End Date	Wholesale Price Tier
1	2008-05-01	2008-11-01	3
2	2008-11-01	Unspecified	2



These two intervals as supplied, in a timeline-like format:

May	June	July	August	September	October	November	December	January
Tier 3								
						Tier 2		

The collapsed interval combines the new intervals into the currently active interval timeline. Due to date overlap, the new update completely overwrites all current intervals. The new active timeline will be as follows after this update:

May	June	July	August	September	October	November	December	January
Tier 3						Tier 2		

## Interval Pricing Metadata Example

For the sake of brevity, only two audio tracks are shown. Changes made for interval pricing are in bold.

```
<?xml version="1.0" encoding="UTF-8"?>
<package xmlns="http://apple.com/itunes/importer" version="music4.3">
  <language>en-US</language>
  <provider>OneLittleIndian</provider>
  <album>
    <vendor_id>5099749642829</vendor_id>
    <upc>5099749642829</upc>
    <grid>A10302B0000114391R</grid>
    <title>Medúlla (Remastered)</title>
    <original_release_date>2004-08-30</original_release_date>
    <label_name>One Little Indian</label_name>
    <genres>
      <genre>Alternative</genre>
    </genres>
    <copyright_pline>2004 One Little Indian</copyright_pline>
    <copyright_cline>2004 One Little Indian</copyright_cline>
    <artwork_files>
      <file>
        <file_name>cover.jpg</file_name>
        <size>42576</size>
        <checksum type="md5">ffa9327b444559d4d72312b2c7d660ff </checksum>
      </file>
    </artwork_files>
    <volume_count>1</volume_count>
    <track_count>2</track_count>
    <products>
      <product>
        <territory>GB</territory>
        <intervals>
          <interval>
            <start_date>2008-07-01</start_date>
            <end_date>2008-09-01</end_date>
```

```

        <wholesale_price_tier>5</wholesale_price_tier>
    </interval>
</interval>
<interval>
    <start_date>2008-09-01</start_date>
    <end_date>2008-10-01</end_date>
    <wholesale_price_tier>3</wholesale_price_tier>
</interval>
<interval>
    <start_date>2008-10-01</start_date>
    <wholesale_price_tier>5</wholesale_price_tier>
</interval>
</intervals>
<sales_start_date>2008-01-22</sales_start_date>
<cleared_for_sale>true</cleared_for_sale>
<cleared_for_ticketmaster>true</cleared_for_ticketmaster>
</product>
<product>
    <territory>IE</territory>
    <intervals>
        <interval>
            <start_date>2008-07-01</start_date>
            <end_date>2008-09-01</end_date>
            <wholesale_price_tier>5</wholesale_price_tier>
        </interval>
        <interval>
            <start_date>2008-09-01</start_date>
            <end_date>2008-10-01</end_date>
            <wholesale_price_tier>3</wholesale_price_tier>
        </interval>
        <interval>
            <start_date>2008-10-01</start_date>
            <wholesale_price_tier>5</wholesale_price_tier>
        </interval>
    </intervals>
    <sales_start_date>2008-01-22</sales_start_date>
    <cleared_for_sale>true</cleared_for_sale>
    <cleared_for_ticketmaster>true</cleared_for_ticketmaster>
</product>
</products>
<artists>
    <artist>
        <name>Björk</name>
        <roles>
            <role>Performer</role>
        </roles>
        <primary>true</primary>
    </artist>
</artists>
<tracks>
    <track>
        <vendor_id>GBBFT0501345_9083</vendor_id>
        <isrc>GBBFT0501345</isrc>
        <grid>A10302B00002427998</grid>
        <title>The Pleasure Is All Mine</title>
        <title_version>Dub Remix</title_version>
        <gapless_play>true</gapless_play>
        <genres>
            <genre>Electronic</genre>

```

```

        <genre>World</genre>
    </genres>
</products>
    <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
    </cleared_for_user_generated_ringtones>
    </product>
    <product>
        <territory>IE</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>false
    </cleared_for_user_generated_ringtones>
    </product>
</products>
<copyright_pline>2004 One Little Indian</copyright_pline>
<explicit_content>clean</explicit_content>
<volume_number>1</volume_number>
<track_number>1</track_number>
<audio_file>
    <file_name>pleasure.m4a</file_name>
    <size>7734621</size>
    <checksum type="md5">6ddabb680edae6bf2ec84ffcfa730fda
</checksum>
</audio_file>
<preview_start_index>30</preview_start_index>
<artists>
    <artist>
        <name>Björk</name>
        <roles>
            <role>Performer</role>
        </roles>
        <primary>true</primary>
    </artist>
</artists>
</track>
<track>
    <vendor_id>GBBFT0460211_2369</vendor_id>
    <isrc>GBBFT0460211</isrc>
    <title>Vokuro</title>
    <title_version>Super DJ Remix</title_version>
    <gapless_play>false</gapless_play>
    <genres>
        <genre>Electronic</genre>
        <genre>Dance</genre>
    </genres>
</products>
    <product>
        <territory>GB</territory>
        <cleared_for_sale>true</cleared_for_sale>
        <cleared_for_user_generated_ringtones>true
    </cleared_for_user_generated_ringtones>
    </product>
    <product>
        <territory>IE</territory>
        <cleared_for_sale>true</cleared_for_sale>

```

```

        <cleared_for_user_generated_ringtones>>true
</cleared_for_user_generated_ringtones>
    </product>
</products>
<copyright_pline>2004 One Little Indian</copyright_pline>
<explicit_content>explicit</explicit_content>
<volume_number>1</volume_number>
<track_number>2</track_number>
<audio_file>
    <file_name>vokuro.m4a</file_name>
    <size>498424</size>
    <checksum type="md5">58cba368bd1fdf50cc7d3e44a59e4dc4
</checksum>
</audio_file>
<preview_start_index>30</preview_start_index>
<artists>
    <artist>
        <name>Björk</name>
        <roles>
            <role>Performer</role>
        </roles>
        <primary>true</primary>
    </artist>
</artists>
</track>
</tracks>
</album>
</package>

```

## Interval Pricing Metadata Annotations

Interval Pricing Metadata Fields	
<pre>&lt;product&gt;   &lt;territory&gt;IE&lt;/territory&gt;</pre>	<p><b>Product</b> (<i>required</i>)</p> <p>Begin the product in the same manner of the basic music album. The territory specified here is the only one affected by the intervals defined within this product tag.</p>
<pre>&lt;intervals&gt;</pre>	<p><b>Interval Declaration</b> (<i>required</i>)</p> <p>The beginning of a group of intervals for a specific territory.</p>
<pre>&lt;interval&gt;</pre>	<p><b>Interval</b> (<i>required</i>)</p> <p>The beginning of an individual interval for a specific territory. This interval will only be applied to the territory specified in the parent's (product) territory tag. Any number of intervals may be provided in any initial product delivery or subsequent update.</p>

<start_date>2008-07-01</start_date>	<p><b>Interval Start Date</b> (<i>required</i>)</p> <p>The start date for the given interval. This may be any point in the future and must follow the YYYY-MM-DD format.</p>
<end_date>2008-10-01</end_date>	<p><b>Interval End Date</b> (<i>optional</i>)</p> <p>The end date for the given interval. This may be any point at least 24 hours after the interval's start date and must follow the YYYY-MM-DD format. If the end date is not specified, the interval will last until the start date of the following interval. If no further intervals are specified, the interval will last indefinitely.</p>
<wholesale_price_tier>3</wholesale_price_tier>	<p><b>Interval Wholesale Price Tier</b> (<i>optional</i>)</p> <p>The wholesale price tier for the album for the given interval. Must be a wholesale price tier number as specified in your contract with Apple.</p> <p>See <a href="#">"Table 1: Wholesale Price Tiers"</a> (page 103) for a list of available price tiers. Review your contract to verify the tiers available to you. If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Please speak to your Apple Technical Representative for more details.</p>
</interval> </intervals>	
<sales_start_date>2008-01-22</sales_start_date> . . . </product> </products>	<p><b>Product</b> (<i>required</i>)</p> <p>The rest of the product tag remains the same as the Basic Music Album, except for pricing. When interval pricing is used, pricing may not be located outside of the &lt;interval&gt; tag.</p>



# Prices & Genres

## Table 1: Wholesale Price Tiers

These are the standard wholesale price tiers. This list is by no means exhaustive, so please check your contract for more details, or to see if additional tiers may be applicable.

	Tier	Tier Name
<b>Album Tiers</b>	14	Digital 45 <sup>1</sup>
	30	Mini EP* <sup>2</sup>
	5	EP <sup>3</sup>
	31	Mini Album*
	1	Budget One
	32	Budget Two*
	2	Back
	33	Mid*
	3	Mid/Front <sup>o</sup>
	34	Front One*
	40	Front Two*
	4	Front/Plus
	<b>Track Tiers</b>	98
99		Mid <sup>o</sup>
100		Front*
<b>Video Tiers</b>	98	Back
	99	Mid
	100	Front

\* New contract required.

<sup>1</sup> Use of this tier is limited to albums with four or fewer tracks.

2 Use of this tier is limited to albums with seven or fewer tracks.

3 Use of this tier is limited to albums with ten or fewer tracks.

° Default price tier if no tier is specified.

## Table 2: Additional Wholesale Price Tiers for Japanese Content

These are the additional standard wholesale price tiers available for premium domestic content in Japan for providers with Japanese contracts. This list is by no means exhaustive, so please check your contract for more details, or to see if additional tiers may be applicable.

	Tier	Tier Name
<b>Album Tiers</b>	15	Digital 45 - Premium <sup>1</sup>
	35	Mini EP - Premium* <sup>2</sup>
	10	EP - Premium <sup>3</sup>
	36	Mini Album - Premium*
	6	Budget One - Premium
	37	Budget Two - Premium*
	7	Back - Premium
	38	Mid - Premium*
	8	Mid/Front - Premium
	39	Front One - Premium*
	41	Front Two - Premium*
	9	Front/Plus - Premium
<b>Track Tiers</b>	101	Premium
<b>Video Tiers</b>	101	Premium

\* New contract required.

1 Use of this tier is limited to albums with four or fewer tracks.

2 Use of this tier is limited to albums with seven or fewer tracks.

3 Use of this tier is limited to albums with ten or fewer tracks.



## Table 3: Music Genres

This list shows some of the genres currently displayed in the iTunes Store, and may change at any time. Should an album or track belong in a different genre, please supply that genre in the metadata, but note that it will at present be changed to one of the below. This list is for reference only.

Genres	
Alternative	Anime
Audiobooks	Big Band
Blues	Children's Music
Classical	Comedy
Country	Dance
Electronic	Enka
French Pop	German Folk
German Pop	Fitness & Workout
Heavy Metal	High Classical
Hip Hop/Rap	Holiday
Inspirational	Instrumental
J-Pop	Jazz
K-Pop	Karaoke
Kayokyoku	Latin
New Age	Opera
Pop	R&B
Reggae	Rock
Singer/Songwriter	Soundtrack
Spoken Word	Vocal
World	



# Language Codes

The following table is a partial list of the language codes supported by iTunes for use in the `<language>` tag. The first part of the code designates the language, and the second part of the code designates the region. This makes it possible to distinguish between French Canadian (fr-CA) and French (fr-FR) as spoken in France, for example. The list is based on the RFC4646 standard. For more details on languages, see <http://tools.ietf.org/html/rfc4646>.

Description	Supported values for <language> in the metadata
German, Unspecified	de
German for Germany	de-DE
Swiss German	de-CH
Austrian German	de-AT
English, Unspecified (defaults to US English)	en
Australian English	en-AU
New Zealand English	en-NZ
Canadian English	en-CA
English for Germany	en-DE
English for France	en-FR
British English	en-GB
US English	en-US
Spanish, Unspecified	es
Spanish for Spain	es-ES
US Spanish	es-US
Finnish	fi-FI
French, Unspecified	fr
French Canadian	fr-CA
French	fr-FR
Swiss French	fr-CH

## APPENDIX B

### Language Codes

Description	Supported values for <language> in the metadata
Belgian French	fr-BE
Italian	it-IT
Japanese	ja-JP
Dutch	nl-NL
Portuguese, Unspecified	pt
Brazilian Portuguese	pt-BR
Portuguese for Portugal	pt-PT
Norwegian	no-NO

# Frequently Encountered Issues

---

## Accented characters such as é and ü don't appear correctly in my titles and descriptions.

Make sure you are correctly encoding your metadata in UTF-8. You can use one of the XML Metadata Production tools listed in the Helpful Tools section. There is an XML tool called xmllint that will help identify problems with your XML encodings. You can also try previewing your XML in a browser that renders XML trees such as Firefox.

## How do I create a checksum for my files?

Apple accepts file checksums using the industry standard MD5 message digest. There are a variety of tools available to produce an MD5 checksum. See the tools listed in "Helpful Tools" (page 111).

## I'm not familiar with XML. Where can I find a general tutorial for XML?

W3Schools	Tizag Tutorials	XML: A Beginner's Guide
<a href="http://www.w3schools.com/xml/">http://www.w3schools.com/xml/</a>	<a href="http://www.tizag.com/xmlTutorial/">http://www.tizag.com/xmlTutorial/</a>	by Dave Mercer <a href="http://www.amazon.com/">http://www.amazon.com/</a>

## Some letters in XML have to be rewritten, what is that about? What's wrong with my ampersand? My XML isn't valid!

XML uses a small set of characters to denote structure in the document. If you need to use these characters within content in your XML file, you need to let the XML file know that the characters are not being used as structure by "escaping" them. For example the letters < and > designate an element tag marker, so if you have a value of "giant > midget" in your XML, you need to escape the greater than character with a set of characters called an entity. The entity for greater than ">" is "&gt;", thus making your previous statement "giant &gt; midget". If you cannot rewrite these characters, see the next section regarding using a Character Data (CDATA) block.

Here are the characters that need to be escaped, and their equivalent entities:

Character	Escaped Equivalent
>	&gt;
<	&lt;
&	&amp;

## I cannot rewrite my characters. Is there another option? What is CDATA?

XML does offer another solution when rewriting reserved characters is not possible. Element text may be enclosed in a special structure called a character data block CDATA. In a CDATA block, the <, >, and & characters are allowed; the only thing not allowed is the CDATA block closing sequence “]]>” which is unlikely to occur in your text.

Here’s an example of the same element using entity escaping:

```
<short_description>If giant &gt; midget, then take midget &amp; giant.</short_description>
```

versus a CDATA block:

```
<short_description><![CDATA[if giant > midget, the take midget & giant. ]]>
```

For further explanation, see [http://www.w3schools.com/xml/xml\\_cdata.asp](http://www.w3schools.com/xml/xml_cdata.asp). Note the characters must still be encoded in UTF-8.

### **I don’t have a value for an element that is shown in the XML.**

For elements marked optional for which you have no value, Apple requires that you remove the tag entirely from the XML rather than leaving the element empty. If the element is marked required, you may not omit the element.

# Helpful Tools

---

These products are neither endorsed nor supported by Apple.

<b>XML Metadata Production</b>		
Oxygen XML Editor Mac, Windows, Linux <a href="http://www.oxygenxml.com/">http://www.oxygenxml.com/</a>	Exchanger XML Editor Mac, Windows, Linux <a href="http://www.exchangerxml.com/">http://www.exchangerxml.com/</a>	Altova XML Spy Windows <a href="http://www.altova.com/">http://www.altova.com/</a>
<b>XML Debugging</b>		
Firefox Mac, Windows, Linux <a href="http://www.mozilla.com/firefox/">http://www.mozilla.com/firefox/</a>	xmllint Mac OS X, BSD <a href="http://developer.apple.com/">http://developer.apple.com/</a>	
<b>MD5 Checksum</b>		
md5 Mac OS X, BSD <a href="http://developer.apple.com/">http://developer.apple.com/</a>	md5sum Windows <a href="http://www.nullriver.com/">http://www.nullriver.com/</a>	





# Revision History

## Previous Spec Revisions

The following table lists the previously-released specifications and the revisions:

Date/Version	Summary
November 10, 2009 - Version 4.1	Added new music genres. Clarified package version attribute name requirements. Added explanation on how to handle featured artists. Clarified pre-order previews and pre-order sales start date. Clarified that at least one artist must be designated Primary for both the album and each track.
September 11, 2009 - Version 4.0	Simplified naming of tags. Unified vendor identifier tags. <code>&lt;label_name&gt;</code> under the <code>&lt;track&gt;</code> block can be updated. Added new genres. Added the <code>&lt;size&gt;</code> tag to all data files referenced in the XML examples. Chapter image filenames must be unique. Clarified that artist roles must be in English in order to be imported.
August 10, 2009 - Version 3.3.3	<code>&lt;album_preorder_previews&gt;</code> and GRID can now be updated. Matching the <code>&lt;provider&gt;</code> name with the provider short name used in Transporter is now enforced. Added new price tiers. Introduced new page design.
July 1, 2009 - Version 3.3.2	<code>&lt;track_gapless_play&gt;</code> can now be updated. Clarified the requirements for GRID (global release identifier). Change to videos within playlists. Clarified vendor identifier, chapter titles, and image requirements. Video release dates can now be updated through metadata updates. Clarified that music videos use the <code>&lt;volume_number&gt;</code> tag, not the <code>&lt;track_volume_number&gt;</code> tag. Corrected the bonus material and pre-order metadata examples.
May 12, 2009 - Version 3.3	Introduction to takedown notices. Change with pre-order tracks. Additional fields may now be updated. Vendor identifier format restrictions are now enforced. Added track-level pricing. Changed Folk genre to Singer/Songwriter. Added a table that lists common language codes. Clarified the <code>&lt;language&gt;</code> and <code>&lt;provider&gt;</code> tags. Indicated in the metadata annotations the fields that can be updated. Deprecated <code>&lt;album_products&gt;</code> . Video artwork is now required.
August 15, 2008 - Version 3.2	Limited release draft.
May 8, 2007 - Version 3.1.1	Clarifications have been added for wholesale price tier, bonus material updates and artist names. Foreign language support has changed. New tags are now updatable through the feed. Complete example is now provided for metadata-only updates.

Date/Version	Summary
January 21, 2007 - Version 3.1	New items are able to be updated through the feed, Ticketmaster availability, video metadata examples clarified.
August 15, 2007 - Version 3.0	New tags added, document reorganized, restraints on title and artist field lengths, video asset-only delivery added.
April 2, 2007 - Version 2.3	Addition of classical works support, removal of <sales_end_date> tag, combination of music and music video profiles.
November 30, 2006 - Version 2.2.1	Minor updates to text.
October 24, 2006 - Version 2.2	Deprecated several tags, added chaptering, gapless audio, and revised foreign language support.
June 29, 2006 - Version 2.1	Addition of Bonus Material and Pre-Orders.
June 2, 2006 - Version 2.0	Separate Music, Music Video and TV Specifications.

## Changes in Music Profile 4.1

### Music Profile: Genres

New genres have been added for Music: Health & Fitness, K-Pop, Karaoke, Instrumental, and High Classical. The Big Band sub-genre has been moved from the Easy Listening genre to Jazz. Note that these genres do not apply to Music Videos or Ringtones.

### Music Profile: Corrections/Clarifications

When specifying the version attribute of the package (<package xmlns="http://apple.com/itunes/importer" version="music4.1">), the "music" portion of the version attribute must be in lowercase letters.

For pre-orders, if the <preorder\_previews> tag is omitted in an initial upload, it is assumed false and previews will not be available during the pre-order period. If the tag is omitted in an update, it is assumed that there is no change to the value originally sent. Also, the <preorder\_sales\_start\_date> tag cannot be updated; once you send it, it can't be changed or removed. However, additional territories can be added in an update.

When listing the artists who perform on the album and each track, at least one artist must be designated as a primary artist for both the album and each track.

### Music Profile: Featured Artists

If an artist on a song, album, or video is a "featured" artist, assign the `featuring` role to the artist as shown in the XML example below. If the song, album, or video features more than one artist, enter the artists in order of importance in the XML.

```
<artist>
  <name>Eminem</name>
```

## REVISION HISTORY

### Revision History

```
<roles>
  <role>Featuring</role>
</roles>
<primary>>false</primary>
</artist>
```

This ensures that the album will show up on the featured artist's page. To ensure that the featuring artist shows up when customers search for the artist, add the artist's name(s) to the track title as in the following example:

```
<title>If I Get Locked Up (feat. Eminem)</title>
```

The term "feat." must be in lower case. No other spelling is acceptable.

## Changes in Music Profile 4.0

### Music Profile: Tag Naming

Several tag names have been simplified. Tags that fall under an `<album>` block have been renamed to remove the `<album_...>` prefix of the tag. For example, `<album_upc>` has been renamed to `<upc>`. Similarly, tags that fall under a `<track>` block have been renamed to remove the `<track_...>` prefix of the tag. For example, `<track_gapless_play>` has been renamed to `<gapless_play>`. The only exception to this is `<track_number>`, which remains `<track_number>`.

In addition, the vendor identifier tag has been unified for album, track, and video. The tag is now `<vendor_id>` for all.

### Music Profile: Metadata Updates

`<label_name>` under the `<track>` block (previously called `<track_label_name>`) can be updated.

### Music Profile: Genres

Four new genres have been added: health & fitness, k-pop, karaoke, and metal.

### Music Profile: Chapters

Each chapter image file referenced in the package must have a unique filename.

### Music Profile: Clarifications

Role names for artists (for example, Performer) must be in English to be imported by the iTunes Store, but the names will be localized if needed when displayed in the Store.

### Music Profile: Element Changes

**Important:** Even though the tag names have changed, the old tag names will still be accepted for a period of time. A future version of this specification will notify you when the new tag names will be strictly enforced.

*Renamed (old tag = new tag)*

```
<album_vendor_id> = <vendor_id>
```

```

<album_upc> = <upc>
<album_grid> = <grid>
<album_title> = <title>
<album_title_version> = <version>
<album_label_name> = <label_name>
<album_genres> = <genres>
<album_copyright_pline> = <copyright_pline>
<album_copyright_cline> = <copyright_cline>
<album_artwork_files> = <artwork_files>
<album_liner_notes> = <liner_notes>
<album_description_short> = <description_short>
<album_description_long> = <description_long>
<album_volume_count> = <volume_count>
<album_track_count> = <track_count>
<album_artists> = <artists>
<album_preorder_previews> = <preorder_previews>
<track_vendor_id> = <vendor_id>
<track_isrc> = <isrc>
<track_grid> = <grid>
<track_title> = <title>
<track_title_version> = <title_version>
<track_gapless_play> = <gapless_play>
<track_label_name> = <label_name>
<track_genres> = <genres>
<track_products> = <products>
<track_copyright_pline> = <copyright_pline>
<track_lyrics> = <lyrics>
<track_liner_notes> = <liner_notes>
<track_beats_per_minute> = <beats_per_minute>
<track_preview_start_index> = <preview_start_index>
<track_volume_number> = <volume_number>
<track_audio_file> = <audio_file>
<track_artists> = <artists>

```

## Changes in Music Profile 3.3.3

### Music Profile: Metadata Updates

The `<album_preorder_previews>` tag can now be updated through metadata updates.

GRID can be updated if the field did not contain a value in a prior package delivery. This includes: `<album_grid>`, `<track_grid>`, and `<grid>`.

### iTunes Store Package Package: Price Tiers

Replaced Album Front price tier with Front One and Front Two price tiers. See “[Prices & Genres](#)” (page 103).

## Changes in Music Profile 3.3.2

### **Music Profile: GRID**

GRID (global release identifiers) used in the `<grid>`, `<album_grid>`, and `<track_grid>` tags must not be more than 18 alphanumeric characters. The GRID cannot contain dashes, spaces, underscores, other punctuation, or symbols. Packages delivered with GRID containing non-alphanumeric characters will be rejected.

### **Music Profile: Track Numbering for Videos**

On mixed media albums that include a video, specifying the `<track_number>` for videos tracks is required. When specifying a volume number for videos, use the `<volume_number>` tag, not the `<track_volume_number>` tag.

### **Music Profile: Metadata Updates**

`<release_date>` for videos and `<track_gapless_play>` can now be updated through metadata updates.

### **Music Profile: Clarifications**

The vendor identifier must not start with an underscore character. Images must be at least 72 dpi. Chapter titles have a 255-byte limit.

## Changes in Music Profile 3.3

### **Music Profile: Album Label Name**

`<album_label_name>` is now automatically updated through metadata updates.

### **Music Profile: Bonus Material Updates**

Bonus material may now be updated.

### **Music Profile: Pre-Orders**

All pre-order only tracks must now be cleared for sale.

### **Music Profile: Track-Level Wholesale Pricing**

Wholesale price tiers can now be applied to individual tracks. All wholesale pricing is strictly validated. Invalid price tiers will be rejected from delivery—this includes track-level pricing. Track-level pricing is not required; if you don't provide track-level pricing information, the pricing defaults to Mid tier. Track-level pricing is dependent on contracts. Contact your iTunes Technical Representative for details.

### **Music Profile: Takedowns**

A new, simplified metadata format is now available for taking down content. This is intended to ease content removal from the store especially in instances where the track lineup or ISRCs have changed.

**Music Profile: Video**

Previous error has been corrected. Music video titles and music video artwork are required.

**iTunes Store Package: Vendor Identifiers**

Vendor identifiers are case-sensitive and may only contain alphanumeric characters and underscores ("\_"). Packages delivered with identifiers containing other characters will be rejected.

**Music Profile: Element Changes***Changes*

`<wholesale_price_tier>` can now be used for track-level pricing within the `<track_products>` tag.

`<album_products>` is deprecated. Use `<products>` instead.

*Deprecated*

`<sell_plus_quality>` (deprecated except for Japan)

`<album_products>`

`<album_title_version>`

`<album_title_version translation="native">`

`<album_title_version translation="japanese">`

`<album_title_version translation="phonetic">`

## Changes in Music Profile 3.1.1

**Music Profile: Album, Track and Video Artists**

Artist names will now appear in the iTunes Store in the order in which they are specified in the provided metadata. This only applies to albums provided on or after April 1, 2008.

**Music Profile: Album Track Count**

If specified, the `<album_track_count>` is compared to the total number of tracks received and the associated album is automatically marked complete at time of import (pending iTunes approval). Note: This is a clarification and not a change in the specification.

**Music Profile: Bonus Material**

Bonus materials may not be updated via the feed at this time. If changes are necessary, contact your Apple Technical Representative. Note: This is a clarification and not a change in the specification.

**Music Profile: Explicit Content**

"Clean," "explicit" and "none" are acceptable values. Previously, the "none" option was omitted from the specification.

**Music Profile: Foreign Language Albums and Tracks**

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Only Japanese albums and tracks or non-Japanese albums and tracks for sale in Japan may include translation information. Please refer to the Foreign Language Support section for more details on how to best provide Japanese and non-Japanese language metadata.

#### **Music Profile: Metadata Updates**

If a metadata ticket has been opened by iTunes, track and album titles as well as title versions may be updated via the feed (subject to iTunes ticket approval).

#### **Music Profile: Metadata-Only Pre-Orders**

Pre-orders no longer need to include all assets up-front. Instead, they may be simply metadata-only (with the addition of the album cover), and the audio may be added at a later date.

#### **iTunes Store Package: Wholesale Price Tier**

If an invalid price tier is provided, iTunes reserves the right to reject the package or to use default pricing. Check your contract for allowed price tiers. Speak to your iTunes Technical Representative for more details. Note: This is a clarification and not a change in the specification.

## Changes in Music Profile 3.1

#### **Music Profile: Bonus Material**

Note that QuickTime movie content is no longer acceptable as bonus material. Only PDF booklets are valid bonus material at this time. If a QuickTime movie is supplied, the package will be rejected.

#### **Music Profile: Foreign Language Support**

Support has been clarified for phonetic or pronunciation translations. Going forward, only "phonetic" and not "pronunciation" translation types will be allowed in metadata.

#### **Music Profile: Metadata & Asset Updates**

New items may be updated through the feed including: cover art, iTunes Plus clearances, track preview start times, video preview start times, and copyright notices (p and c-lines). A complete example of metadata-only updates is now provided.

#### **Music Profile: Pre-Order Type**

Pre-orders may have tracks that are "standard" (i.e., a normal track that has no special pre-order function and will remain on the album after the pre-order period ends) or "pre-order only" (i.e., a track that is exclusive to the pre-order period only and may not be purchased apart from the entire pre-order before the album's street date). This is now specified with the `<preorder_type>` flag.

#### **Music Profile: Related Albums**

Related album information is no longer accepted.

#### **Music Profile: Ticketmaster**

Albums may now be sold via the Ticketmaster website when customers buy event tickets. This is currently only available in select territories.

**Music Profile: Track-Level Wholesale Pricing (Japanese only)**

All wholesale pricing is strictly validated. Invalid price tiers will be rejected from delivery—this includes track-level pricing, which is only valid for Japanese local content in Music Profile 3.1.

**Music Profile: Track Numbering**

The tag for track numbering has been simplified to make it more consistent across specifications. This is now specified with the `<track_number>` flag for all videos and audio tracks.

**Music Profile: User-Generated Ringtones**

Customers can now purchase the right to use a song they have already purchased to use as ringtones.

**Music Profile: Video Preview Start Time**

Music video start times may now be specified in the video's initial delivery, or updated in subsequent metadata updates.

**Music Profile: Video Data and Artwork File Tagging**

Music video asset tag structure has been revised to be consistent across specification profiles.

**Music Profile: Video Wholesale Price Tiers**

With new contracts, one of three price tiers are now available for videos: 98, 99, 100 (actual tier names may vary by contract).

**Music Profile: Element Changes***Deprecated*

```

<album_related_albums>
<album_release_date>
<artwork_files>
<preorder_only>
<track_track_number>
<track> (bonus material)
<volume> (bonus material)

```

*Changed (new tag = old tag)*

```

<album_title translation="phonetic"> = <album_title translation="pronunciation">
<album_title_version translation="phonetic"> = <album_title_version
translation="pronunciation">
<asset type="artwork"> = <artwork_files>
<asset type="full"> = <data_file>
<name translation="phonetic"> = <name translation="pronunciation">
<original_release_date> = <album_release_date>
<preorder_type>preorder only</preorder_type> = <preorder_only>
<track_number> = <track_track_number>
<track_title translation="phonetic"> = <track_title translation="pronunciation">

```



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```
<track_title_version translation="phonetic"> = <track_title_version  
translation="pronunciation">
```

#### *Added*

```
<cleared_for_ticketmaster>  
<cleared_for_user_generated_ringtones>  
<original_release_date>  
<preorder_type>  
<track_number>  
<preview starttime="n"/> (video)  
<wholesale_price_tier> (video)
```

## Changes in Music Profile 3.0

### **Music Profile: Artists**

Artist names now have a 255 7-bit (Roman) character limit, and as few as 71 Unicode characters. Japanese, Greek or other non-Roman languages use Unicode characters and artist names that use these character sets therefore must use a reduced number of characters (71 or fewer).

### **Music Profile: Asset-Only Delivery for Video**

Video assets can now be delivered independent of metadata. These deliveries are for video asset replacement or for labels that have metadata delivered by one party and the videos delivered by a video encoding company.

### **Music Profile: Foreign Language Support**

Restrictions to use have been added. Please note that incorrect use of artist or title translations may result in discontinued eligibility for this feature.

### **Music Profile: Plus Quality**

Support is now added to handle specifying availability of iTunes Plus high-quality audio. This is indicated at the album-level (or video-level for video singles) per territory.

### **Music Profile: Pre-Orders**

Preview audio is now available on all pre-orders. This is an optional tag that makes thirty-second previews available for customers to sample before they commit to purchasing a pre-order album.

### **Music Profile: Title and Version Title Clarifications**

Use of titles and title versions has been expanded and clarified in this specification. Titles now have a 255-byte limit. This is 255 Roman alphabet and 71 double-byte characters. Here again, Japanese, Greek or other non-Roman languages use Unicode characters and titles and title versions that use these character sets therefore must use a reduced number of characters (71 or fewer).

### **Music Profile: Track Ringtone Clearance**

Availability for ringtone sale may now specified at the territory level.

**Music Profile: Element Changes***Deprecated*

```
<original_release_year>  
<track_explicit_lyrics>
```

*Changed (new tag = old tag)*

```
<explicit_content> = <track_explicit_lyrics>
```

*Added*

```
<album_preorder_previews>  
<explicit_content>  
<sell_plus_quality>
```

## Changes in Music Profile 2.3

**iTunes Store Package: Empty XML Elements**

Empty XML elements are no longer accepted in metadata. If not used, the elements should be removed; otherwise, unintended results may occur, such as marking an album "clean" when it is not in fact a clean version.

**iTunes Store Package: World Territory**

The "world" territory, used to define clearances for every territory in which an active contract is present, has changed to be in line with ISO standards and may be specified using "WW" only. It is preferred that the "WW" territory is used whenever possible so that the fewest number of necessary territories are included in the delivered metadata.

**Music Profile: Classical Works**

Support is now added to handle longer classical music such as concertos or symphonies that are divided into movements, or "works."

**Music Profile: Title and Version Title Clarifications**

Use of titles and title versions has been expanded and clarified in this specification.

**Music Profile: Track Additions and Updates Support**

XML-only updates are now supported through the feed for the following: track additions, audio updates, territory clearance additions, release date changes and track additions.

**Music Profile: Wholesale Price Tier**

Price tiers are required. If they are not specified, then the album will be offered as an incomplete album in all territories missing wholesale pricing.

**Music Profile: Element Changes**

*Deprecated*`<sales_end_date>`*Added*`<work>`

## Changes in Music Profile 2.2.1

### Introduction of Profiles

The addition of multiple types of content (music video, music, film and TV) has led to the introduction of profiles to the specification structure. This approach has been taken, rather than separate specifications, to ensure that as much commonality as possible is preserved.

### Music Profile: Chaptering

Audio chaptering is now supported at the track level. This is especially useful for long mixed tracks or audio interviews.

### Music Profile: Gapless audio

Gapless audio (tracks that have no auditory space between them) is now supported and is flagged at the track-level between tracks that have no gap.

### Music Profile: Element Changes

*Deprecated*

```

<album_explicit_lyrics>
<album_original_release_year>
<display_artist>
<track_cleared_for_sale>
<track_piece>
<url>

```

*Renamed (new tag = old tag)*

```

<products> = <track_products>

```

*Added*

```

<chapters>
<track_gapless_play>

```

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