Music Source Requirements

This document lists the requirements for a new music data source to be included in the Trackhunter platform. The requirements are split into 6 categories; Individual Track Data Requirements, Pricing Requirements, New Release Requirements, Search Requirements, Communication Requirements and Authentication Requirements.

Following these requirements will ensure a good user experience for Trackhunter users and will also ensure your platform is utilised as efficiently as possible, for example, a reduction in the number of requests made to your server.

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Individual Track Data Requirements

At a minimum the following information for each track needs to be made available to the Trackhunter platform.

1. Artist
2. Title
3. Release Date
4. Publishing Label
5. Genres
6. Preview URL (URL where the MP3 preview snippet can be found)
7. Cover Art URL (URL where the artwork can be found for the track/album)
8. More Info URL (URL where users can see more info on the track and purchase it)

The following data would be advantageous although is optional.

1. Your Product Id
2. Remixer
3. BPM
4. Key
5. Length

Pricing Requirements

At a minimum the following pricing information for each format of a track needs to be made available to the Trackhunter platform. Obviously there may be multiple formats available and pricing should be supplied for each that you deliver.

1. Format (one of MP3 192kbs, MP3 320kbs, WAV, FLAC or AIFF)
2. Price (for the specified format)
3. Currency code (ISO 4217, USD, GBP etc.)

New Release Requirements

Every time a Trackhunter user tries to fetch the latest music (using the Get Latest feature) Trackhunter will make a request to your platform for the latest tracks that are available. It will request all the latest tracks for a specific genre (or all genres) from a specified date.

Your platform needs to be capable of dealing with one of the following:

1. Requests for all new releases for a specific genre from a specific date
2. Requests for all new releases for all genres from a specific date

Your platform needs to respond with the following:

1. A list of tracks for the specified genre (or all) from (and including) the specified date which includes the data specified in the Individual Track Requirements and Pricing Requirements sections
2. The list must be paginated and include data to show how many tracks there are in total, how many pages there are, how many tracks per page and the current page being returned
3. The list should be sorted in Release Date (most recent first) order

Search Requirements

Every time a Trackhunter user tries to search for specific tracks or rechecks prices Trackhunter will make a request to your platform for tracks that match their search criteria. It will request all the tracks based on artist and/or title.

Your platform needs to be capable of dealing with the following:

1. Requests for all tracks whose Artist contains the specified artist string
2. Requests for all tracks whose Title contains the specified title string
3. Requests for all tracks whose Artist and Title contains the specified artist and title strings respectively

Your platform needs to respond with the following:

1. A list of tracks that satisfy the users search criteria defined above and includes the data specified in the Individual Track Requirements and Pricing Requirements sections
2. The list must be paginated and include data to show how many tracks there are in total, how many pages there are, how many tracks per page and the current page being returned
3. The list should be sorted in Release Date (most recent first) order

Communication Requirements

There are various ways in which the Trackhunter platform can communicate with your platform but the preferred method is via a REST service.

REST service

Communication via a REST service requires endpoints (URLs) which support GET requests.

The URLs would likely look something like the following.

For new releases (Get Latest)

http://www.myonlinestore.com/restapi/newtracks?genre=techno&fromdate=2013-11-01

For track searching (Search and Recheck Prices)

http://www.myonlinestore.com/restapi/tracksearch?artist=sasha&title=anything

Your platform needs to be capable of dealing with the following:

1. HTTP GET requests to your specified "new releases" endpoint including the "genre" and "fromdate" parameters. These parameters can be named however you'd like.
2. HTTP GET requests to your specified "track searching" endpoint including the "artist" and/or "title" parameters. These parameters can be named however you'd like.

Responses

Responses to the above requests can be either JSON or XML.

An example of a good JSON response would be:

```
{
  "TotalTracks":2,
  "TracksPerPage":200,
  "TotalPages":1,
  "CurrentPage":1,
  "CurrencyCode":"USD",
  "Tracks":[ {
               "ProductId":12345,
               "Artist":"Hazard",
               "Title":"Rock the discoteque",
               "ReleaseDate":"2012-09-01",
               "PublishingLabel":"Stomping",
               "PreviewURL":"http://www.myonlinestore.com/previews/12345.mp3",
               "CoverArtURL":"http://www.myonlinestore.com/art/12345.jpg",
               "MoreInfoURL":"http://www.myonlinestore.com/info/12345.html",
               "Remixer":"Woosh",
               "BPM":128,
               "Key":"D#",
               "Length":"4:38",
               "Genres":[
                          "Tech House",
                          "Deep House"
                        ],
               "Formats":[ {
                             "FormatType":"MP3 192kbs",
                             "Price":0.99
                           },
                           {
                             "FormatType":"MP3 320kbs",
                             "Price":1.49
                           },
                           {
                             "FormatType":"WAV",
                             "Price":1.99
                           }]
             },
             {
               "ProductId":12346,
               "Artist":"D-Roll",
               "Title":"Moving On (Rich Gold Remix)",
               "ReleaseDate":"2013-10-12",
               "PublishingLabel":"Get Up!",
               "PreviewURL":"http://www.myonlinestore.com/previews/12346.mp3",
               "CoverArtURL":"http://www.myonlinestore.com/art/12346.jpg",
               "MoreInfoURL":"http://www.myonlinestore.com/info/12346.html",
               "Remixer":"Rich Gold",
               "BPM":129,
               "Key":"E",
               "Length":"5:44",
               "Genres":[
                          "Trance"
                        ],
               "Formats":[ {
                             "FormatType":"MP3 192kbs",
                             "Price":0.99
                           },
                           {
                             "FormatType":"MP3 320kbs",
                             "Price":1.49
                           },
                           {
                             "FormatType":"WAV",
                             "Price":1.99
                           }]
             }]
}
```

An example of a good XML response would be:

```
<Response>
  <TotalTracks>2</TotalTracks>
  <TracksPerPage>200</TracksPerPage>
  <TotalPages>1</TotalPages>
  <CurrentPage>1</CurrentPage>
  <CurrencyCode>USD</CurrencyCode>
  <Tracks>
    <Track productid="12345">
      <Artist>Hazard</Artist>
      <Title>Rock the discoteque</Title>
      <ReleaseDate>2012-09-01</ReleaseDate>
      <PublishingLabel>Stomping</PublishingLabel>
      <PreviewURL>http://www.myonlinestore.com/previews/12345.mp3</PreviewURL>
      <CoverArtURL>http://www.myonlinestore.com/art/12345.jpg</CoverArtURL>
      <MoreInfoURL>http://www.myonlinestore.com/info/12345.html</MoreInfoURL>
      <Remixer>Woosh</Remixer>
      <BPM>128</BPM>
      <Key>D#</Key>
      <Length>4:38</Length>
      <Genres>
        <Genre>Tech House</Genre>
        <Genre>Deep House</Genre>
      </Genres>
      <Formats>
        <Format type="MP3 192kbs" price="0.99" />
        <Format type="MP3 320kbs" price="1.49" />
        <Format type="WAV" price="1.99" />
      </Formats>
    </Track>
    <Track productid="12346">
      <Artist>D-Roll</Artist>
      <Title>Moving On (Rich Gold Remix)</Title>
      <ReleaseDate>2013-10-12</ReleaseDate>
      <PublishingLabel>Get Up!</PublishingLabel>
      <PreviewURL>http://www.myonlinestore.com/previews/12346.mp3</PreviewURL>
      <CoverArtURL>http://www.myonlinestore.com/art/12346.jpg</CoverArtURL>
      <MoreInfoURL>http://www.myonlinestore.com/info/12346.html</MoreInfoURL>
      <Remixer>Rich Gold</Remixer>
      <BPM>129</BPM>
      <Key>E</Key>
      <Length>5:44</Length>
      <Genres>
        <Genre>Trance</Genre>
      </Genres>
      <Formats>
        <Format type="MP3 192kbs" price="0.99" />
        <Format type="MP3 320kbs" price="1.49" />
        <Format type="WAV" price="1.99" />
      </Formats>
    </Track>
  </Tracks>
</Response>
```

Website

As long as your website satisfies the requirements listed in New Releases Requirements section then we may be able to obtain new release (Get Latest) track data from your platform via your website.

Also, as long as your website satisfies the requirements listed in the Search Requirements section then we may also be able to obtain specific (Search and Recheck Prices) track data from your platform via your website.

It isn't necessary to satisfy both the New Release and Search Requirements although not satisfying one would mean either Get Latest or Search/Recheck Prices functionality is not available for your music source. This would obviously mean tracks from your source wouldn't appear when users perform a Get Latest, Search or Recheck Prices depending on which you didn't satisfy.

Important

In order for us to be able to accurately obtain music data from your website then the HTML should be formatted in such a way that we can accurately parse the data out. Data required for the Individual Track Data Requirements and Pricing Requirements sections should be clearly formatted and each track in the list should also be clearly formatted with a unique id or "hook" that we can use. The same guidelines apply for the pagination data etc.

Recommendations

- It is advisable for all data for each track to be available on the initial list page without the need for Trackhunter to drill-down to further pages to find it
- It is also advisable for your website to be capable of displaying as many tracks as possible on each page

These recommendations would reduce the number of requests to your website and also provide a better user experience for Trackhunter users.

Example of a good HTML page

As close to the XML response format as possible would be perfect.

```
<html>
        <head>
                <title>My Music Store</title>
        </head>
        <body>
                <div class="content">
                        <div class="menu">HOME | ABOUT | MUSIC | CONTACT US</div>
                        <div class="summary">Search Results (<span class="total">2</span>
tracks), Displaying page <span class="currentpage">1</span> of <span
class="totalpages">1</span></div>
                        <div class="tracks">
                                <div class="track" id="productid_12345">
                                        <div class="artwork"><img
src="http://www.myonlinestore.com/art/12345.jpg" class="coverart" alt="coverart" /></div>
                                        <div class="detail">
                        <span class="artist">Hazard</span>
                        <span class="remixer">Woosh</span>
                        <span class="genres">Tech House, Deep House</span>
                        <a href="http://www.myonlinestore.com/info/12345.html"
class="title">Rock the discoteque</a>
                        <span class="releasedate">2012-09-01</span>
                        <span class="label">Stomping</span>
                        <span class="bpm">128</span>
                        <span class="key">D#</span>
                        <span class="length">4:38</span>
                        <a href="http://www.myonlinestore.com/previews/12345.mp3"
class="title">PLAY</a>
                        <a href="http://www.myonlinestore.com/buy?type=MP3+192kbs"
class="buy">BUY <span class="format">MP3 192kbs</span> (<span class="price">$0.99</span>)</a>
                        <a href="http://www.myonlinestore.com/buy?type=MP3+320kbs"
class="buy">BUY <span class="format">MP3 320kbs</span> (<span class="price">$1.49</span>)</a>
                        <a href="http://www.myonlinestore.com/buy?type=WAV" class="buy">BUY
<span class="format">WAV</span> (<span class="price">$1.99</span>)</a>
                                        </div>
                                </div>
                                <div class="track" id="productid_12346">
                                        <div class="artwork"><img
src="http://www.myonlinestore.com/art/12346.jpg" class="coverart" alt="coverart" /></div>
                                        <div class="detail">
                        <span class="artist">D-Roll</span>
                        <span class="remixer">Rich Gold</span>
                        <span class="genres">Trance</span>
                        <a href="http://www.myonlinestore.com/info/12346.html"
class="title">Moving On (Rich Gold Remix)</a>
                        <span class="releasedate">2013-10-12</span>
                        <span class="label">Get Up!</span>
                        <span class="bpm">129</span>
                        <span class="key">E</span>
                        <span class="length">5:44</span>
                        <a href="http://www.myonlinestore.com/previews/12346.mp3"
class="title">PLAY</a>
                        <a href="http://www.myonlinestore.com/buy?type=MP3+192kbs"
class="buy">BUY <span class="format">MP3 192kbs</span> (<span class="price">$0.99</span>)</a>
                        <a href="http://www.myonlinestore.com/buy?type=MP3+320kbs"
class="buy">BUY <span class="format">MP3 320kbs</span> (<span class="price">$1.49</span>)</a>
                        <a href="http://www.myonlinestore.com/buy?type=WAV" class="buy">BUY
<span class="format">WAV</span> (<span class="price">$1.99</span>)</a>
                                        </div>
                                </div>
                        </div>
                </div>
        </body>
</html>
```

Authentication Requirements

We have no requirement for your platform to be authentication protected. However if your platform has authentication requirements then we are happy to discuss them.

Just contact us at support@trackhunter.co.uk

Extras

The following are not required but would make for a better solution and a much better user experience for Trackhunter users.

Buying Tracks

Providing a URL to your store where multiple items can be added to a customer's shopping basket would enhance the Trackhunter users experience and may even motivate them to buy more tracks from your store due to ease of use.

A URL like the one below would suffice (we've used the product id as a key):

http://www.myonlinestore.com/cart/add.php?items=12345,12346

Available Genre List

Providing an endpoint where Trackhunter can request a genre list would ensure that Trackhunter can automatically keep up to date with the genres that your store supports.

A URL like the one below would suffice:

http://www.myonlinestore.com/restapi/genres

Response

A response containing the name and key like the examples below would suffice.

JSON

```
{
  "Genres":[ {
                "Techno":"110",
                "Trance":"112",
                "Deep House":"123",
                "Tech House":"201"
              }]
}
```

XML

```
<Response>
  <Genres>
    <Genre Name="Techno" Key="110" />
    <Genre Name="Trance" Key="112" />
    <Genre Name="Deep House" Key="123" />
    <Genre Name="Tech House" Key="201" />
  </Genres>
</Response>
```

Contacting us

If your store satisfies these requirements and you would like to have it added to Trackhunter then just contact us at support@trackhunter.co.uk and we will be happy to review your site.

Also, feel free to contact us if you have any questions or need help.