METHOD AND SYSTEM FOR AUTOMATIC CUE SHEET GENERATION

A cue sheet generation system is used to compose a cue sheet for submission to PRS from an input EDL. The system parses the EDL to extract data relating to use of musical works associated with a PRS. The system employs both local and remote databases to retrieve information relating to the extracted musical work data. The information is then used to construct a cue sheet in a form appropriate for submission to a PRS.
TITLE OF THE INVENTION

Method and System for Automatic Cue Sheet Generation

BACKGROUND

Companies that use music in productions that are broadcast in any public way, such as television stations, radio stations or advertisers are required to pay royalties for such use. Agreements with performing rights societies ("PRS") which represent the music owners require these companies to create and file "cue sheets" in order to report the specific music they have used in each of their productions. Example PRS are ASCAP and BMI.

A "cue sheet" usually lists the name of the track used, how and where the track was used, the writer(s) of the track, the publisher of the track, and the performing rights society to which the track is affiliated. A cue sheet lists, in sequence, all music used in a particular production, duration of use, and form of use (i.e., whether it use as background instrumental music, as a theme, or as a featured performance). This information affects the royalty rate paid by the PRS to the owners of the music.

Ordinarily, an administrator at the broadcaster production facility complies the cue sheet data from information indicating the music content used in a particular broadcast program. The administrator employs the musical content identification to retrieve data required for the cue sheet. The data is generally retrieved by reference to published indicis available either in print or online.
SUMMARY

The present invention provides an automated method for generating cue sheets from Edit Decision Lists (EDL) which are generated by production facilities. The present invention recognizes the EDL are generated by production facilities as part of an editing process when employing digital editing tools. The data in the EDL can be used to arrive at information which is required for a cue sheet submission. Accordingly, the present invention parses the EDL data to retrieve information for a cue sheet. The cue sheet information is then entered into corresponding fields of a cue sheet to provide a ready-for-submission cue sheet.

In one embodiment, the invention provides a method for generating a cue sheet for submission to a PRS. The method includes a computer receiving production piece information and an associated EDL file. The computer parses the EDL file to extract track file names, a duration of use, and a time code in the production piece for each file. The computer searches a database for the track file name to retrieve a composer, publisher, and PRS associated with the track file name. In a final step, the computer stores the extracted information and said retrieval information in a cue sheet template to provide a cue sheet for submission to a PRS.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates a contact information screen of the web application of the invention;

Figure 2 illustrates a show details screen of the web application;

Figure 3 illustrates a web application screen for importing EDL data; and

Figure 4 illustrates the EDL presentation screen of the web application.
DESCRIPTION

An edit decision list ("EDL") is a list of instructions for all the edit actions taken during the creation of a program. Some of the information provided by an EDL includes cuts, wipes, fades, dissolves, and black edits. The EDL organizes the instructions as a series of chronological edits called events. Each event specifies a timecode for the edit on the source and master. EDLs can display additional types of information such as comments and the different audio and video tracks in the sequence.

EDLs are created automatically by all forms of digital editing software (Avid, Final Cut Pro, Pro Tools). EDLs can be exported from the editing software as an EDL file or as a text file in a variety of formats. Each provides for different format data and possibly different presentation arrangement. The present application is adapted to operate with any EDL format as long as minimal music identification data is included.

The Cue Sheet Application automatically generates a cue sheet which contains all meta-data required by performing rights societies and is correctly formatted, by reference to the Edit Decision List created by any digital video/audio editing software.

The structure and operation of a system in accordance with the invention will now be discussed by reference to screen diagrams for a web based application that receives an EDL file and provides a corresponding output cue sheet. Figure 1 illustrates a contact information screen 19 of the web application of the invention. The user preferably logs in to the web-application by entering a username and password. In the screen of Figure 1, the user submits contact information by entering corresponding text in the name 20 and email 21 fields of the contact information screen 19.
The form data is transmitted to the web server by selecting a Submit Data button 23. The form data is cleared by selecting a Reset Data button. Figure 2 illustrates a show details screen 30 of the web application. The user enters data specific to the subject production in fields of the screen. These fields include: the network airing the show 31, the production company 32, the producer 33, name of the show 34 (including episode number 35), the length of the show 36, the airing date 37, and any miscellaneous comments 38. This information is generally required for a cue sheet since it identifies the manner and form of use. As discussed above, this information is critical to the PRS as it directly affects the royalty calculation.

Figure 3 illustrates a web application screen for importing EDL data. As discussed above, the user imports the EDL file corresponding to the production for which the cue sheet is required. The user is first prompted to select an EDL format for a file upload from a selection drop-down box 41. In another embodiment, the user pastes the text of an EDL file directly into a special web application window (not shown). In the second step, the user either selects an EDL to upload 42 or pastes the EDL text as discussed above.

Figure 4 illustrates the EDL presentation screen of the web application. As discussed above, the EDL file is imported to the application web server via the internet by the upload procedure of Figure 3. The user selects from available formats 50, 51, 52 for the cue sheet information. In the illustrated embodiment, the formats include a Word file 50, an Excel spreadsheet 51, or an Email attachment 52. The web application parses the imported EDL file and extracts the information needed to generate a cue sheet. The cue sheet information is displayed in a cue sheet display area 60 of the web application. The fist section of the cue sheet display provides the show details discussed with reference to Figure 2. Additionally, the section includes a
field for a producer signature 53. The second section of the cue sheet provides detail as to the works used in the show as extracted from the input EDL file. The detail information includes the track title 61 duration of use 62, the timecode in the program during which the music track was used 63, 64 and form of use 65. A third section of the cue sheet displays information retrieved from databases which is required for the cue sheet submission. The information is retrieved by the application searching a database which contains additional key data for cue sheet purposes: writer name 66, publisher 67, and affiliated PRS 68. In one embodiment, the database is an internal database maintained by the web application provider. In another embodiment, the database is an external public database. Preferably, the internal database is a database of works compiled from both local and external sources providing musical work information. The application dynamically formats the entire cue sheet, based on built-in templates that fulfill the required PRS formatting. As discussed above, the cue sheet data illustrated in Figure 4 is preferably displayed to the user in HTML format. As discussed above, the user downloads a copy of the cue sheet from the web based application server to their local computer as either a Microsoft Word or Microsoft Excel document. This feature allows the user to subsequently alter the document to suit the individual user purposes. In some implementations, the user emails copies of the cue sheet in either format to other users directly through the web application without saving a local copy on the user computer by employing the e-mail option.

Although the present invention was discussed in terms of certain preferred embodiments, the invention is not limited to such embodiments. A person of ordinary skill in the art will appreciate that numerous variations and combinations of the features set forth above can be utilized without departing from the present invention.
as set forth in the claims. Thus, the scope of the invention should not be limited by the preceding description but should be ascertained by reference to claims that follow.
CLAIMS

1. A method for generating a cue sheet for submission to a PRS, comprising:
   a computer receiving production piece information from a user;
   the computer receiving an EDL file containing edit actions relevant to
   the received production piece information;
   the computer parsing the EDL file to extract at least one track file
   name;
   the computer parsing the EDL file to extract a duration for each
   extracted file name;
   the computer parsing the EDL file to extract a time code in said
   production piece for each extracted file name;
   the computer searching a database for the track file name to retrieve a
   composer, publisher, and PRS associated with the track file name; and
   the computer storing said extracted information and said retrieval
   information in a cue sheet template to provide a cue sheet for submission to a
   PRS.

2. The method of Claim 1, wherein the EDL actions are selected from the group
   comprising wipes, fades, dissolves, and block edits.

3. The method of Claim 1, wherein the computer implements the method on a
   website by a web server.

4. The method of Claim 1, wherein the computer further transmits the cue sheet
   as part of an email message.
Step One

Enter Contact Info
Name
Email

Figure 1
Step Three

1. Choose EDL format or paste
2. Select EDL to upload, or paste tracks below

Figure 3
### MUSIC CUE SHEET

<table>
<thead>
<tr>
<th>TRACK TITLE</th>
<th>DURATION</th>
<th>IN</th>
<th>OUT</th>
<th>USE</th>
<th>COMPOSER</th>
<th>PUBLISHER/COPYRIGHT OWNER</th>
<th>BMU/ASCAP</th>
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<td>01:00:06:20</td>
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<td>BM</td>
<td>DJ Cap</td>
<td>DJ Cap Music</td>
<td>GOMA</td>
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