

Metadata for iRODS

5/3/2011

Introduction

- Goal
 - To decide the contents and format of metadata for iRODS from Web catalog
- Purposes of metadata
 - iRODS creates folder structure to which a curator will upload files
 - iRODS hands metadata to MediaEngine and creates headers of movies

Metadata Contents

- Metadata of Web catalog required for submission

Title
Authorized Representative Name
Contact Name
Affiliation Institution
Address 1
Address 2
City
Region
Postal Code
Country
Phone
Fax
Email
URL
Categories
Subjects
Keywords
Summary Description
Duration
Director Name
Producer Name
Creator
Contributors I
Year Produced
Copyright Holder
Permission to Use
Credits required if other than copyright
Permission to Use Expiration Date

Pixel Resolution and Video Format
Pixel Resolution Other
File Format
File Format Other
Frame Rate
Frame Rate Other
Encoding Rate
Image Bit Rate
Field Rendering
Pixel Aspect Ratio
Color Space and Color Depth
Color Space Other
Stereo Type
Hardware and Software Notes
Camera Source
Camera Make and Model
Display and Playback Requirements

Movie Data

Audio Track
Audio Compression
Bit resolution uncompressed
Sample rate uncompressed
Compression format
Bit rate
Number of Channels
Channel Order and Assignments
Contains Stereo Mix
Contains Multichannel Mix
Contains raw unmixed audio tracks
Specify the nature of these unmixed tracks
Special Audio Requirements or Notes

Audio Data

Folder Structure

- Example

```
iRodsZone/
|-- CinegridExchange
|   |-- content
|       |-- 2011 <Year>
|           |-- 24flowers <Title>
|               |-- images
|                   |-- 0000.tif
|               |-- sound
|                   |-- 0000.wav
|-- metadata
    |-- 2011
        |-- 24flowers.xml
```

Title

Authorized Representative Name

Contact Name

Affiliation Institution?

Address 1

Address 2

City

Region

Postal Code

Country?

Phone

Fax

Email

URL

Categories?

Subjects

Keywords

Summary Description

Duration

Director Name?**Producer Name?****Creator?**

Contributors I

Year Produced

Copyright Holder

Permission to Use

Credits required if other than copyright

Permission to Use Expiration Date

Do we need more sub-folders like organizations, countries, or categories?

Movie Header

- To be discussed: which are required?

Title
Authorized Representative Name
Contact Name
Affiliation Institution
Address 1
Address 2
City
Region
Postal Code
Country
Phone
Fax
Email
URL
Categories
Subjects
Keywords
Summary Description
Duration
Director Name
Producer Name
Creator
Contributors I
Year Produced
Copyright Holder
Permission to Use
Credits required if other than copyright
Permission to Use Expiration Date

Pixel Resolution and Video Format
Pixel Resolution Other
File Format
File Format Other
Frame Rate
Frame Rate Other
Encoding Rate
Image Bit Rate
Field Rendering
Pixel Aspect Ratio
Color Space and Color Depth
Color Space Other
Stereo Type
Hardware and Software Notes
Camera Source
Camera Make and Model
Display and Playback Requirements

Movie Data

Audio Track
Audio Compression
Bit resolution uncompressed
Sample rate uncompressed
Compression format
Bit rate
Number of Channels
Channel Order and Assignments
Contains Stereo Mix
Contains Multichannel Mix
Contains raw unmixed audio tracks
Specify the nature of these unmixed tracks
Special Audio Requirements or Notes

Audio Data

Metadata Format

- XML: Expressive but redundant

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE cxmetadata SYSTEM "http://www.cinegrid.org/DTD/cxmetadata.dtd>
<metadata>
  <title>24flowers</title>
  <year>2011</year>
  <affiliation>*****</affiliation>
  <country>*****</country>
  <category>*****</category>
  <email>example@example.org</email>
</metadata>
```

- JSON (*"JSON is a lightweight text-based open standard designed for human-readable data interchange."* Wikipedia)

```
{
  "title": "24flowers",
  "year": "2011",
  "affiliation": "*****",
  "country": "*****",
  "category": "*****",
  "email": "example@example.org"
}
```