

# Appendix A:

## DAITSS AIP Descriptors

### Contents

Overview.....	1
Creation of a DAITSS AIP Descriptor.....	2
Contents of the DAITSS AIP descriptor file .....	3
AIP descriptor METS XML Sections.....	3
An Example of a DAITSS AIP descriptor.....	5
The example AIP descriptor section by section.....	8
The second METS amdSec: .....	9
Example of current representation metadata (techMD ID="tech-2").....	11
The DAITSS AIP descriptor, PREMIS and the DAITSS Preservation Database .....	19
The complete sample DAITSS AIP descriptor.....	23

### Overview

DAITSS AIP (Archival Information Package) descriptor files contain a complete record of all processing performed by DAITSS software during the creation of an Archival Information Package. AIP descriptors are PREMIS in METS XML files and are stored by DAITSS as part of its Archival Information Packages (AIPs). They contain both package-level and file-level metadata about the intellectual entity contained in the package, the intellectual entity's representations contained in the package, all preservation events associated with the package and its content files, and technical metadata about each of the package's content data files.

DAITSS AIP descriptor files conform to the following standards:

- XML
- PREMIS
- METS
- DAITSS
- MARC, MODS and Dublin Core descriptive metadata standards

- Format-related standards such as MIX, textMD, and docMD

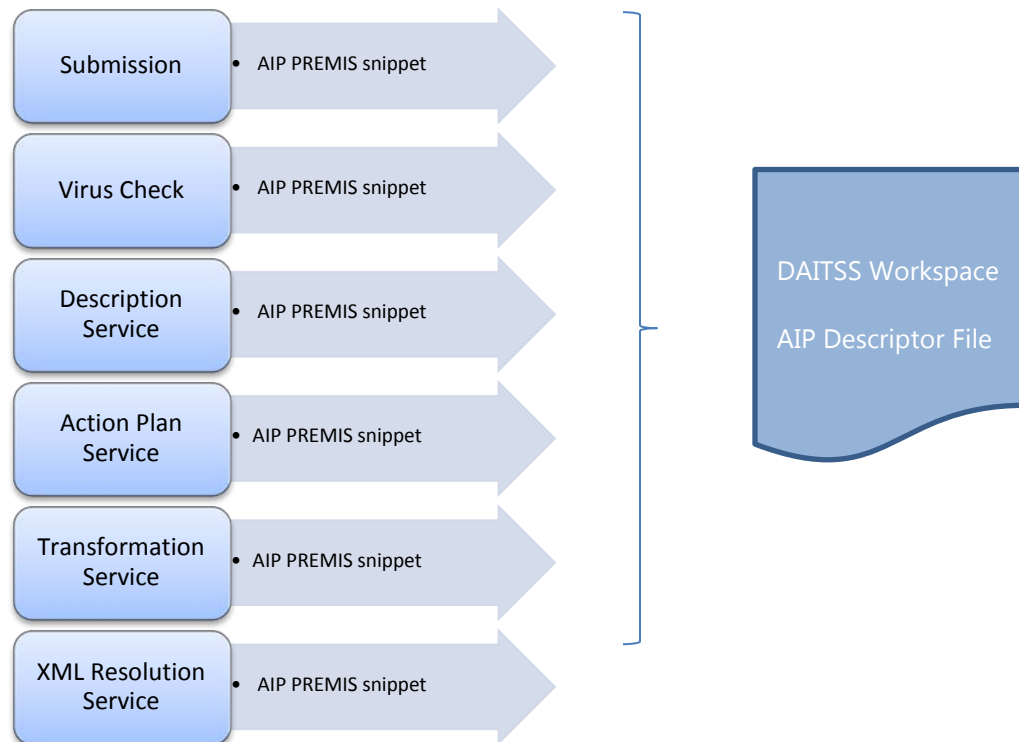
Some of the data contained in AIP descriptor files is parsed and used to populate the DAITSS preservation database, and the AIP descriptor is also stored in its entirety in the "aips" table of that database.

## Creation of a DAITSS AIP Descriptor

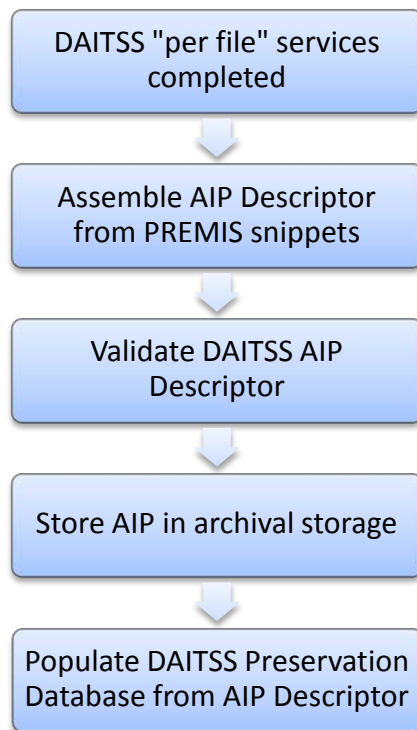
The contents of DAITSS AIP descriptors are created as PREMIS XML snippets by each of the DAITSS services as packages are being processed. After processing of a package contents is completed by DAITSS services, the completed AIP descriptor is assembled, validated, and stored as part of the Archival Information Package in archival storage.

### *AIP descriptor creation process*

Each DAITSS service creates a portion of the AIP descriptor and adds it to the DAITSS workspace:



After all of the content files in a package are processed, the AIP descriptor is assembled and validated, the AIP is stored in archival storage, and the DAITSS Preservation Database is populated from the contents of the AIP descriptor:



## Contents of the DAITSS AIP descriptor file

### *DAITSS AIP descriptor METS XML Sections*

The completed DAITSS AIP descriptor contains the following METS XML sections that constitute the "wrapper" for descriptive and technical metadata governed by other standards and schemas such as PREMIS, MODS, TextMD, etc.: dmdSec (Descriptive metadata), amdSec (Administrative metadata), and fileSec (file listing). It also contains a structMap section.

Below is an example of the AIP descriptor XML document tree collapsed, displaying the METS “wrapper” sections of this specific file:

```
<mets ...>
<dmdSec ID="dmd-1"></dmdSec> <!-- Descriptive metadata-->
<amdSec></amdSec> <!--DAITSS administrative metadata-->
<amdSec></amdSec> <!--Package-level metadata -->
<amdSec></amdSec> <!--File-level metadata-->
<fileSec></fileSec> <!-- listing of all data files contained in the AIP-->
<structMap ID="current"></structMap>
<structMap ID="normalized"></structMap>
<structMap ID="original"></structMap>
</mets>
```

The following is a more detailed overview of the basic METS XML sections in the DAITSS AIP descriptor, along with a summary of the contents of each section:

- **dmdSec:** contains the following entity-level descriptive metadata:
  - title
  - volume
  - issue
  - entity id (package name)
- First **amdSec:** contains a digiprovMD with DAITSS ownership/account information:
  - **digiprovMD:** AGREEMENT-INFO (ACCOUNT and PROJECT)
- Second **amdSec:** contains package-level data and consists of the following techMD and digiprovMD sections:
  - **techMD** sections for package-level data:
    - **techMD ID="tech-1":** intellectual entity-level data
      - the AIP’s unique URI within archival storage
      - the original name of package (SIP name)
    - **techMD ID="tech-2":** representation-level data for current (last, best) representation.
      - the list of files included in the most recent representation of the AIP
    - **techMD ID="tech-3":** representation-level data for the normalized representation (if present).
      - the list of files included in the latest normalized representation of the AIP
    - **techMd ID="tech-4":** representation-level data for the original (SIP) representation
      - the list of files included in the original (submitted) representation of the AIP
  - **digiprovMD** sections for DAITSS package-level events:
    - PREMIS submit event
    - PREMIS ingest event

- PREMIS disseminate event(s)
    - PREMIS refresh event(s)
    - PREMIS withdrawal event
  - **digiprovMD** sections for DAITSS package-level agents:
    - PREMIS software agent information associated with package-level events
    - PREMIS Agent information for the DAITSS account associated with the package
- Third **amdSec**: contains technical metadata for all AIP data files and their bitstreams, and PREMIS events for DAITSS services performed on each file.
  - **techMD** sections: technical metadata for each AIP content file and its bitstreams
  - **digiprovMD** sections: PREMIS events and PREMIS agents (one event for each file for each service). Some examples of these digiprovMD sections:
    - DAITSS Description Service PREMIS events for each file contained within the package.
    - DAITSS XML Resolution Service PREMIS events for the SIP descriptor and any other XML files included in the package
    - DAITSS Transformation events (normalization or migration) if any file-level transformations are needed, as dictated by the Action Plan
    - A Virus Check event for every submitted file
- The AIP descriptor **fileSec** lists the following files:
  - The SIP descriptor file
  - All AIP content files (all original SIP files plus any migrated or normalized files)
- The **structMap** sections of the AIP descriptor include :
  - **structMap ID="current"**: A structMap listing files included in the current representation of the Intellectual Entity contained in the AIP. This includes any original files submitted in the SIP that have not been migrated to a successor file format and the most recent migrated versions of original files. The current representation never lists normalized files. If no files in the AIP have been migrated into a successor file format, the current representation of the AIP is identical to the original representation.
  - **structMap ID="original"**: A structMap listing files included in the original representation of the Intellectual Entity contained in the AIP, which includes only the originally submitted SIP content data files.
  - **structMap ID="normalized"**: A structMap listing files included in the normalized representation of the Intellectual Entity contained in the AIP. This includes any original files submitted in the SIP that have not been normalized into another file format and the most recent normalized versions of original files.

## An Example of a DAITSS AIP descriptor

The following example tracks the creation of an Archival Information Package (AIP) and its descriptor file and explains each section of the AIP descriptor file in detail.

## ***The Original Submission Information***

### ***Package (SIP):***

The original SIP consists of a top-level directory /FDA6060501 containing the following three files:

- FDA6060501.xml (the SIP descriptor)
- FDA6060501.doc (a content data file)
- FDA6060501.wav (a content data file)

Submission Information Packages enter the DAITSS processing work flow via the DAITSS Submission Service where they are validated and, if they pass validation, they proceed to the DAITSS ingest process.

### ***The DAITSS ingest process:***

In addition to processing the package as a whole, the DAITSS ingest process sends each of the files in the SIP through the following DAITSS services:

- Virus Check Service
- Format Description Service
- Action Plan Service
- Transformation Service (only files requiring normalization or migration are sent to the Transformation Service)
- XML Resolution Service (only XML files are sent to the XML Resolution Service)

### ***The AIP after DAITSS ingest processing has been completed:***

The Archival Information Package created from the above SIP by the DAITSS ingest process has the following structure and contents:

A top-level directory named after the unique DAITSS-assigned Intellectual Entity Identifier (IEID), in this example /E88XBTT1Q\_J3OL1H. The top-level AIP directory contains the following sub-directories and files:

- File descriptor.xml which is the DAITSS AIP descriptor.
- Directory /aip-files, which contains any normalized or migrated versions of original files. In this example the /aip-files directory contains one file, 1-norm-0.wav, the normalized version of FDA6060501.wav created by DAITSS during ingest of the package.
- Directory /sip-files, which contains the contents of the originally submitted SIP. In this example the /sip-files directory contains the following files:
  - FDA6060501.xml (the SIP descriptor)
  - FDA6060501.doc (the original content data file)
  - FDA6060501.wav (the original content data file)
- File xlmres-0.tar, which, when unpacked, contains a manifest.xml file listing all XML files processed by the DAITSS XML Resolution Service, along with any downloaded schemas, dtdds and stylesheets. In this example the only XML file in the SIP is the SIP descriptor file, FDA6060501.xml.

## The AIP Descriptor in this example:

Below is the AIP descriptor XML document tree collapsed, displaying the METS “wrapper” sections of this particular AIP descriptor:

```
<mets ...>
<dmdSec ID="dmd-1"></dmdSec> <!-- Descriptive metadata-->
<amdSec></amdSec> <!--DAITSS administrative metadata-->
<amdSec></amdSec> <!--Package-level metadata -->
<amdSec></amdSec> <!--File-level metadata-->
<fileSec></fileSec> <!-- listing of all data files contained in the AIP-->
<structMap ID="current"></structMap>
<structMap ID="normalized"></structMap>
<structMap ID="original"></structMap>
</mets>
```

When the document tree is expanded further the relationships between technical metadata, and package and file-level events, and package and file-level agents can be seen:

```
<mets ...>
  <dmdSec ID="dmd-1"></dmdSec> <!--Descriptive metadata-->

  <amdSec> <!-- DAITSS administrative metadata-->
    <digiprovMD ID="AGREEMENT-INFO"> <!--DAITSS Account/Project-->
    </amdSec>

  <amdSec> <!-- Package-level metadata -->
    <techMD ID="tech-1" ADMID="dmd-1 digiprov-1 digiprov-2 digiprov-3 digiprov-4">
    <!--Intellectual Entity-->
    <techMD ID="tech-2"> <!-- PREMIS current representation -->
    <techMD ID="tech-3"> <!-- PREMIS normalized representation-->
    <techMD ID="tech-4"> <!-- PREMIS original representation -->
    <!--DIGIPROV (events) -->
    <digiprovMD ID="digiprov-1"> <!--PREMIS package submit event-->
    <digiprovMD ID="digiprov-2"> <!--PREMIS package ingest event-->
    <!--DIGIPROV (agents) -->
    <digiprovMD ID="digiprov-3"> <!--DAITSS account agent -->
    <digiprovMD ID="digiprov-4"> <!--DAITSS software agent -->
    </amdSec>

  <amdSec>
    <!--file-level technical metadata-->
    <techMD ID="tech-5"> <!--technical metadata for DAITSS file-2-->
    <techMD ID="tech-5"> <!--technical metadata for DAITSS file-1-->
    <techMD ID="tech-6"> <!--technical metadata for DAITSS file-0-->
    <techMD ID="tech-7"> <!--technical metadata for DAITSS file 1-norm-0-->
    <!--file-level DIGIPROV (PREMIS events) -->
    <digiprovMD ID="digiprov-5"> </digiprovMD> <!--DAITSS description service event
(file-2) -->
    <digiprovMD ID="digiprov-6"></digiprovMD> <!--DAITSS virus check event (file-2) -
->
    <digiprovMD ID="digiprov-7"></digiprovMD> <!--DAITSS description service event
(file-1) -->
```

```

->         <digiprovMD ID="digiprov-8"></digiprovMD> <!--DAITSS virus check event (file-1) -
->
->         <digiprovMD ID="digiprov-9"></digiprovMD> <!--DAITSS description service event
(file-0) -->
->         <digiprovMD ID="digiprov-10"></digiprovMD> <!--DAITSS XML Resolution service
event (file-0) -->
->         <digiprovMD ID="digiprov-11"></digiprovMD><!--DAITSS virus check event (file-0) -
->
->         <digiprovMD ID="digiprov-12"></digiprovMD><!--DAITSS description service event
(file-0) -->
->         <digiprovMD ID="digiprov-13"></digiprovMD><!--DAITSS normalize event (file 1-
norm-0) -->
->         <!--file-level DIGIPROV (agents)-->
agent-->         <digiprovMD ID="digiprov-14"></digiprovMD><!--DAITSS Transformation Service
agent-->
->         <digiprovMD ID="digiprov-15"></digiprovMD> <!--DAITSS virus check service agent-
agent-->
agent-->         <digiprovMD ID="digiprov-16"></digiprovMD> <!--DAITSS Format Description Service
agent-->
agent-->         <digiprovMD ID="digiprov-17"></digiprovMD> <!--DAITSS XML Resolution Service
agent-->
</amdSec>

<fileSec></fileSec> <!-- listing of all data files contained in the AIP-->

<structMap ID="current"></structMap> <!-- current representation-->
<structMap ID="normalized"></structMap> <!-- normalized representation -->
<structMap ID="original"></structMap> <!-- original representation -->

</mets>

```

## The example AIP descriptor, section by section

The following illustrates the contents of each section of the AIP descriptor file for the package in this example. Although a specific example of a simple AIP descriptor is shown, all DAITSS AIP descriptors contain the illustrated sections. To assist in distinguishing between applicable standards, METS tags are in orange type and PREMIS tags are in green type.

### The dmdSec:

Title, Volume, Issue, and Entity ID data are contained in the AIP descriptor's dmdSec. The package itself may contain more detailed descriptive metadata which is retained in the package contents but is not included in the AIP descriptor or the DAITSS preservation database.

```

<dmdSec ID="dmd-1">
  <mdWrap MDTYPE="MODS">
    <xmlData>
      <mods xmlns="http://www.loc.gov/mods/v3">
        <titleInfo>
          <title>Priscilla Caplan Interview</title>
        </titleInfo>
        <part>

```



```

        <detail type="volume">
            <number/>
        </detail>
    </part>
    <part>
        <detail type="issue">
            <number/>
        </detail>
    </part>
    <identifier type="entity id">FDA6160501</identifier>
</mods>
</xmlData>
</mdWrap>
</dmdSec>

```

### ***The first amdSec***

The first amdSec in the AIP descriptor contains the DAITSS account and project information of the package.

```

<amdSec>
    <digiprovMD ID="AGREEMENT-INFO">
        <mdWrap MDTYPE="OTHER">
            <xmlData>
                <AGREEMENT_INFO
xsi:schemaLocation="http://www.fcla.edu/dls/md/daitss/daitss.xsd"
xmlns="http://www.fcla.edu/dls/md/daitss/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" ACCOUNT="FDA"
PROJECT="PRJ"/>
            </xmlData>
        </mdWrap>
    </digiprovMD>
</amdSec>

```

### ***The second METS amdSec: intellectual entity and representation-level PREMIS metadata***

In this example, the second admSec in a DAITSS AIP descriptor consists of four techMD sections:

- techMD ID="tech-1": intellectual entity-level PREMIS metadata
- techMD ID="tech-2": representation-level PREMIS metadata for the current or most recent representation
- techMD ID="tech-3": representation-level PREMIS metadata for the normalized representation

- techMD ID="tech-4": representation-level PREMIS metadata for the original (SIP) representation

### *Intellectual Entity PREMIS metadata in techMD ID="tech1"*

DAITSS uses the "intellectual entity" PREMIS beta version objectCategory in the first techMD section of the AIP descriptor. The PREMIS objectIdentifierValue includes the unique DAITSS Intellectual Entity ID (IEID) of the AIP, and the PREMIS originalName is the directory name of the Submission Information Package (SIP). The digiprov ADMIDs referenced in this section refer to AIP/package-level PREMIS events that are described in more detail later in this document. (Note: premis-v2-beta indicates that the intellectual entity object category is currently planned for PREMIS v3.)

### *Intellectual Entity data (techMD ID="tech-1") example:*

```
<!-- AIP AMD -->
  <amdSec>
    <!-- TECH -->
      <techMD ID="tech-1" ADMID="dmd-1 digiprov-1 digiprov-2 digiprov-3 digiprov-4">
        <mdWrap MDTYPE="PREMIS">
          <xmlData>
            <object xmlns="info:lc/xmlns/premis-v2-beta">
              <objectIdentifier>
                <objectIdentifierType>URI</objectIdentifierType>
            </object>
            <objectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H</objectIdentifierValue>
            </objectIdentifier>
            <objectCategory>intellectual entity</objectCategory>
            <originalName>FDA6160501</originalName>
          </object>
        </xmlData>
      </mdWrap>
    </techMD>
```

### *Representation-level PREMIS metadata in techMD sections*

DAITSS uses a controlled vocabulary of four representation types:

- **Current:** The Current Representation includes the last, best migrated version of SIP files and original versions of SIP files if no migrated version exists. The Current Representation of a package/intellectual entity would never contain normalized versions of files, as these are not considered successor versions of an original file.
- **Normalized:** The Normalized Representation includes the most recent normalized version of SIP files and original versions of SIP files if no normalized version exists.
- **Original:** The Original Representation in DAITSS includes all files in their original format that were submitted in the Submission Information Package by the data producer. If no SIP files were migrated the Original and Current representations will be identical.

Note that the total number of files included in each representation of a package/intellectual entity is always the same, and each representation contains only one version of a given file.

**Example of PREMIS current representation metadata (techMD ID="tech-2"):**

Because no package data files have been migrated into a successor format in this example, the data files referenced in the current representation and the original representation are identical:

```
<techMD ID="tech-2">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
        <objectIdentifier>
          <objectIdentifierType>URI</objectIdentifierType>
        </objectIdentifier>
        <objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/representation/current</objectIdentifierValue>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
          </relatedObjectIdentification>
          <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/2</relatedObjectIdentifierValue>
        </relationship>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
          </relatedObjectIdentification>
          <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</relatedObjectIdentifierValue>
        </relationship>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
          </relatedObjectIdentification>
          <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</relatedObjectIdentifierValue>
        </relationship>
      </object>
    </xmlData>
  </mdWrap>
</techMD>
```

**Example of PREMIS normalized representation metadata (techMD ID='tech 3'):**

```
<techMD ID="tech-3">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
        <objectIdentifier>
          <objectIdentifierType>URI</objectIdentifierType>

<objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/representation/normalized</objectIdentifierValue>
        </objectIdentifier>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>

<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/2</relatedObjectIdentifierValue>
          </relatedObjectIdentification>
        </relationship>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
            <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-norm-0</relatedObjectIdentifierValue>
          </relatedObjectIdentification>
        </relationship>
        <relationship>
          <relationshipType>structural</relationshipType>
          <relationshipSubType>includes</relationshipSubType>
          <relatedObjectIdentification>
            <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>

<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</relatedObjectIdentifierValue>
          </relatedObjectIdentification>
        </relationship>
      </object>
    </xmlData>
  </mdWrap>
</techMD>
```

**Example of PREMIS original representation metadata (techMD ID="tech-4"):**

```
<techMD ID="tech-4">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
        <objectIdentifier>
          <objectIdentifierType>URI</objectIdentifierType>

<objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/representation/original</objectIdentifierValue>
        </objectIdentifier>
        <relationship>
```

```

        <relationshipType>structural</relationshipType>
        <relationshipSubType>includes</relationshipSubType>
        <relatedObjectIdentification>
          <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>

<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/2</relatedObjectIdentifierValue>
        </relatedObjectIdentification>
      </relationship>
    <relationship>
      <relationshipType>structural</relationshipType>
      <relationshipSubType>includes</relationshipSubType>
      <relatedObjectIdentification>
        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>

<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</relatedObjectIdentifierValue>
      </relatedObjectIdentification>
    </relationship>
  <relationship>
    <relationshipType>structural</relationshipType>
    <relationshipSubType>includes</relationshipSubType>
    <relatedObjectIdentification>
      <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>

<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</relatedObjectIdentifierValue>
    </relatedObjectIdentification>
  </relationship>
</object>
</xmlData>
</mdWrap>
</techMD>

```

## *digiprovMD Sections for AIP/Package-level PREMIS Events*

### *digiprov-1: the PREMIS package submit event*

```

<!-- DIGIPROV (events) -->
  <digiprovMD ID="digiprov-1">
    <mdWrap MDTYPE="PREMIS">
      <xmlData>
        <event xmlns="info:lc/xmlns/premis-v2">
          <eventIdentifier>
            <eventIdentifierType>URI</eventIdentifierType>
          <eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/event/submit</eventIdentifierValue>
          </eventIdentifier>
          <eventType>submit</eventType>
          <eventDateTime>2011-10-10T16:06:53-04:00</eventDateTime>
          <eventOutcomeInformation>
            <eventOutcome>success</eventOutcome>
          </eventOutcomeInformation>
          <linkingAgentIdentifier>
            <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
          <linkingAgentIdentifierValue>info:fda/daitss/account/FDA</linkingAgentIdentifierValue>
          </linkingAgentIdentifier>
          <linkingObjectIdentifier>

```

```

        <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H</linkingObjectIdentifierValue>
      </linkingObjectIdentifier>
    </event>
  </xmlData>
</mdWrap>
</digiprovMD>

```

## *digiprov-2: the PREMIS package ingest event*

```

<digiprovMD ID="digiprov-2">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>
        <eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/event/ingest</eventIdentifierValue>
        </eventIdentifier>
        <eventType>ingest</eventType>
        <eventDateTime>2011-10-10T16:13:40-04:00</eventDateTime>
        <eventOutcomeInformation>
          <eventOutcome>success</eventOutcome>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
          <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
          <linkingAgentIdentifierValue>info:fda/system-
v0.17.11</linkingAgentIdentifierValue>
        </linkingAgentIdentifier>
        <linkingObjectIdentifier>
          <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
        <linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H</linkingObjectIdentifierValue>
        </linkingObjectIdentifier>
      </event>
    </xmlData>
  </mdWrap>
</digiprovMD>

```

## *digiprovMD sections for package-level PREMIS agents*

### *ID="digiprov-3": submitting agent*

The DAITSS submitting agent is the DAITSS account as indicated in the SIP descriptor.

```

<!-- DIGIPROV (agents) -->
  <digiprovMD ID="digiprov-3">
    <mdWrap MDTYPE="PREMIS">
      <xmlData>
        <agent xmlns="info:lc/xmlns/premis-v2">

```

```

        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
<agentIdentifierValue>info:fda/daitss/account/FDA</agentIdentifierValue>
        </agentIdentifier>
        <agentName>DAITSS Account: FDA</agentName>
        <agentType>Affiliate</agentType>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>

```

### *ID="digiprov-4": software agent for package-level events*

```

<digiprovMD ID="digiprov-4">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <agent xmlns="info:lc/xmlns/premis-v2">
        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
          <agentIdentifierValue>info:fda/system-
v2.17.11</agentIdentifierValue>
        </agentIdentifier>
        <agentName>daitss system (v2.17.11)</agentName>
        <agentType>software</agentType>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>
</amdSec>

```

### *The third amdSec: data file-level metadata*

The third METS amdSec in the AIP descriptor contains file-level metadata, including:

- a techMD section for each data file containing technical metadata retrieved by the DAITSS Description Service.
- a digiprovMD section for each PREMIS event performed on each data file by a DAITSS service. In DAITSS these include file-level eventTypes of "virus check", "describe", "xml resolution", "normalize", and "migrate".
- a digiprovMD section for each file -level PREMIS agent. In DAITSS these include the following software agentNames: "Format Description Service", "daitss virus check service", "XML Resolution Service", and "Transformation Service".

*Example: techMD technical metadata section for "file/2" (SIP file FDA6060501.doc)*

```
<!-- DATA FILE AMD -->
  <amdSec>
<!-- TECH -->
  <techMD ID="tech-5">
    <mdWrap MDTYPE="PREMIS">
      <xmlData>
        <object xmlns="info:lc/xmlns/premis-v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="file">
          <objectIdentifier>
            <objectIdentifierType>URI</objectIdentifierType>

<objectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</objectIdentifierValue>
          </objectIdentifier>
          <objectCharacteristics>
            <compositionLevel>0</compositionLevel>
            <fixity>
              <messageDigestAlgorithm>MD5</messageDigestAlgorithm>
              <messageDigest>56f5fbde325ce66335104204ea6dbd89</messageDigest>
              <messageDigestOriginator>Depositor</messageDigestOriginator>
            </fixity>
            <fixity>
              <messageDigestAlgorithm>SHA-1</messageDigestAlgorithm>

<messageDigest>abab1d42cbd0b06de5581eeafda1df4389d7978b</messageDigest>
              <messageDigestOriginator>Archive</messageDigestOriginator>
            </fixity>
            <size>32768</size>
            <format>
              <formatDesignation>
                <formatName>OLE2 Compound Document Format</formatName>
              </formatDesignation>
              <formatRegistry>

<formatRegistryName>http://www.nationalarchives.gov.uk/pronom</formatRegistryName>
                <formatRegistryKey>fmt/111</formatRegistryKey>
              </formatRegistry>
            </format>
          </objectCharacteristics>
          <originalName>sip-files/FDA6160501.doc</originalName>
          <linkingEventIdentifier>
            <linkingEventIdentifierType>URI</linkingEventIdentifierType>

<linkingEventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2/event/describe/0<
          </linkingEventIdentifierValue>
          </linkingEventIdentifier>
        </object>
      </xmlData>
    </mdWrap>
  </techMD>
```



**Example: digiprovMD "describe" event section for "file/1" (SIP file FDA6060501.wav)**

Note that any file format anomalies or inhibitors to long-term preservation are noted in "describe" events.

```
<digiprovMD ID="digiprov-7">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>
          <eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1/event/describe/0</eventIdentifierValue>
        </eventIdentifier>
        <eventType>describe</eventType>
        <eventDateTime>2011-10-10T16:13:17-04:00</eventDateTime>
        <eventDetail>Well-Formed and valid</eventDetail>
        <eventOutcomeInformation>
          <eventOutcome>success</eventOutcome>
          <eventOutcomeDetail>
            <eventOutcomeDetailExtension>
              <anomaly>Chunk type '_PMX' ignored</anomaly>
              <anomaly>Chunk type 'DISP' ignored</anomaly>
            </eventOutcomeDetailExtension>
          </eventOutcomeDetail>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
          <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
          <linkingAgentIdentifierValue>info:fda/daitss/description/v0.4.0</linkingAgentIdentifierValue>
        </linkingAgentIdentifier>
        <linkingObjectIdentifier>
          <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
          <linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1</linkingObjectIdentifierValue>
        </linkingObjectIdentifier>
      </event>
    </xmlData>
  </mdWrap>
</digiprovMD>
```

**Example: digiprovMD file-level DAITSS "Format Description Service" agent**

```
<digiprovMD ID="digiprov-16">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <agent xmlns="info:lc/xmlns/premis-v2">
        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
          <agentIdentifierValue>info:fda/daitss/description/v0.4.0</agentIdentifierValue>
        </agentIdentifier>
        <agentName>Format Description Service</agentName>
        <agentType>Web Service</agentType>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>
```

```

    <agentNote>built with JHOVE 1.6 (built on August 8, 2011), DROID 3.0 with
    DROID signature file version 34.</agentNote>
  </agent>
</xmlData>
</mdWrap>
</digiprovMD>

```

### The AIP descriptor's METS fileSec

The AIP descriptor fileSec includes data about all files contained in the AIP, along with the IDs of the techMDs and digiprovMDs containing technical, events, and agents data relating to each file. The fileSec includes all original SIP files and any normalized or migrated versions of those files. The downloaded schemas, dtDs, and stylesheets that are included with the stored AIP are not listed in the fileSec.

```

<fileSec>
  <fileGrp>
    <file ID="file-2" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/2" ADMID="tech-5
    digiprov-5 digiprov-6 digiprov-15 digiprov-16" SIZE="32768" CHECKSUMTYPE="SHA-1"
    CHECKSUM="abab1d42cbd0b06de5581eeafdaldf4389d7978b">
      <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.doc"/>
    </file>
    <file ID="file-1" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/1" ADMID="tech-6
    digiprov-7 digiprov-8 digiprov-15 digiprov-16" SIZE="255874760" CHECKSUMTYPE="SHA-1"
    CHECKSUM="23c1b31bd135e113785b7bff4b9c94834f8fa055">
      <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.wav"/>
    </file>
    <file ID="file-0" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/0" ADMID="tech-7
    digiprov-9 digiprov-10 digiprov-11 digiprov-15 digiprov-16 digiprov-17" SIZE="3918"
    CHECKSUMTYPE="SHA-1" USE="sip descriptor"
    CHECKSUM="466fdb3b40c79ed6246d7f58c76d61d2ba6373ba">
      <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.xml"/>
    </file>
    <file ID="file-1-norm-0" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/1-norm-0"
    ADMID="tech-8 digiprov-12 digiprov-13 digiprov-14 digiprov-16" SIZE="127936044"
    CHECKSUMTYPE="SHA-1" CHECKSUM="1c56505acdabb73664c08a2b0f135a957df94aed">
      <FLocat LOCTYPE="URL" xlink:href="aip-files/1-norm-0.wav"/>
    </file>
  </fileGrp>
</fileSec>

```

### AIP Descriptor structMap sections

Each representation of a package is listed in a separate structMap linked to the package-level techMD element that contain the PREMIS metadata for the representation.

The total number of files included in each representation of a package/intellectual entity is always the same and each representation contains only one version of a given file.

#### The structMap for the current representation:

Note that in this example the current representation is identical to the original representation because no content files have been migrated to a successor version during the ingest process. The current representation of a package never contains normalized versions of content files.

```
<structMap ID="current">
  <div ADMID="tech-2">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
```

### ***The structMap for the normalized representation:***

Note that in this example the normalized representation contains only one version, the normalized one, of file "file-1".

```
<structMap ID="normalized">
  <div ADMID="tech-3">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1-norm-0"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
```

### ***The structMap for the original representation:***

Note that in this example the original representation and the current representation of the package are identical because no content files have been migrated to a successor version during the ingest process.

```
<structMap ID="original">
  <div ADMID="tech-4">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
```

## **The AIP descriptor, PREMIS and the DAITSS Preservation Database**

The last step of the DAITSS archiving process is the population of the DAITSS preservation database from the AIP descriptor file. The entire AIP descriptor is stored in the *aips* table's *xml* column, and its contents are also parsed and stored in a number of other preservation database tables.

The DAITSS preservation database contains the following tables related to PREMIS digital provenance:

- premis\_events
- premis\_agents

Column names in these tables reflect PREMIS semantic units as follows:

DAITSS preservation database table premis\_events:

PREMIS Event Entity s	DAITSS database premis_events column
eventIdentifierValue	premis_events.id
eventIdentifierType	premis_events.id_type
eventType	premis_events.e_type*
eventDateTime	premis_events.datetime
eventDetail	premis_events.event_detail
eventOutcome	premis_events.outcome
eventOutcomeDetail	premis_events.outcome_details
linkingObjectIdentifier	premis_events.related_object_id
n/a	premis_events.class*
linkingAgentIdentifier	premis_events.premis_agent_id

\* The following are the controlled vocabulary terms for DAITSS premis\_events.e\_type and premis\_events.class. Note that some DAITSS PREMIS events are package-level events (IntentityEvent) while others are file-level events (DatafileEvent):

premis_events.e_type	premis_events.class
submit	Daitss::IntentityEvent
virus check	Daitss::DatafileEvent
describe	Daitss::DatafileEvent
xml resolution	Daitss::DatafileEvent
normalize	Daitss::DatafileEvent
migrate	Daitss::DatafileEvent
ingest	Daitss::IntentityEvent
disseminate	Daitss::IntentityEvent
refresh	Daitss::IntentityEvent
withdraw	Daitss::IntentityEvent

DAITSS preservation database table premis\_agents:

PREMIS Agent Entity	DAITSS premis_agents	Example of Contents
---------------------	----------------------	---------------------

semantic unit	column	
agentIdentifierValue	id	info:fda/daitss/description/v2.2.0
agentName	name	Format Description Service
agentType	type	software
agentNote	note	built with JHOVE 1.6 (built on December 12, 2011), DROID 3.0 with DROID signature file version 63.

In addition, data related to PREMIS objects is stored in a number of other DAITSS preservation database tables. Some key examples are provided below:

DAITSS preservation database table severe\_elements:

PREMIS Object Entity semantic unit Inhibitors	DAITSS Preservation Database table.column	Example of Contents
inhibitorType	severe_elements.name	Password protection
inhibitorTarget	severe_elements.target	UserAccess: Print, Extract
inhibitorKey	severe_elements.id	42

DAITSS preservation database table intentities (proposed PREMIS v.3 Intellectual Entities semantic unit):

DAITSS Preservation Database table.column	Example of Contents
intentities.id	info:fda/E88XBTT1Q_J3OL1H
intentities.original_name	FDA6160501
intentities.entity_id	FDA6160501
intentities.volume	
intentities.issue	
intentities.title	Priscilla Caplan Interview
intentities.package_id	E88XBTT1Q_J3OL1H

Some data in the AIP descriptor is not used to populate the DAITSS preservation database, e.g., information about deleted prior versions of normalized or migrated files is only recorded in the AIP descriptor.

For more detailed information about PREMIS and PREMIS-in-METS, see (<http://www.loc.gov/standards/premis/v2/premis-dd-2-2.pdf> and <http://www.loc.gov/standards/premis/guidelines-premismets.pdf>).

For complete details about the DAITSS Preservation Database, please refer to the DAITSS Data Entity Dictionary (<https://daitss.fcla.edu/content/documentation>).

## The complete sample AIP descriptor

```
<?xml version="1.0" encoding="UTF-8"?>
< mets xmlns="http://www.loc.gov/METS/"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  OBJID="info:fda/E88XBTT1Q_J30L1H" xsi:schemaLocation="http://www.loc.gov/METS/
  http://www.loc.gov/standards/mets/mets.xsd
  http://www.aes.org/tcf http://schema.fcla.edu/tcf.xsd
  http://www.aes.org/audioObject http://schema.fcla.edu/audioObject.xsd
  http://www.loc.gov/mods/v3 http://www.loc.gov/standards/mods/v3/mods-3-3.xsd
  info:lc/xmlns/premis-v2 http://www.loc.gov/standards/premis/premis.xsd">
<!-- DMD -->
  <dmdSec ID="dmd-1">
    <mdWrap MDTYPE="MODS">
      <xmlData>
        <mods xmlns="http://www.loc.gov/mods/v3">
          <titleInfo>
            <title>Priscilla Caplan Interview</title>
          </titleInfo>
          <part>
            <detail type="volume">
              <number/>
            </detail>
          </part>
          <part>
            <detail type="issue">
              <number/>
            </detail>
          </part>
          <identifier type="entity id">FDA6160501</identifier>
        </mods>
      </xmlData>
    </mdWrap>
  </dmdSec>
  <amdSec>
    <digiprovMD ID="AGREEMENT-INFO">
      <mdWrap MDTYPE="OTHER">
        <xmlData>
          <AGREEMENT_INFO xmlns="http://www.fcla.edu/dls/md/daitss/"
            ACCOUNT="FDA" PROJECT="DZA"/>
        </xmlData>
      </mdWrap>
    </digiprovMD>
  </amdSec>
<!-- AIP AMD -->
  <amdSec>
    <!-- TECH -->
      <techMD ID="tech-1" ADMID="dmd-1 digiprov-1 digiprov-2 digiprov-3 digiprov-
      4">
        <mdWrap MDTYPE="PREMIS">
          <xmlData>
            <object xmlns="info:lc/xmlns/premis-v2-beta">
              <objectIdentifier>
                <objectIdentifierType>URI</objectIdentifierType>
              </objectIdentifier>
            </object>
          </xmlData>
        </mdWrap>
      </techMD>
    </amdSec>
  </mets>
</objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H</objectIdentifierValue>
```

```

        </objectIdentifier>
        <objectCategory>intellectual entity</objectCategory>
        <originalName>FDA6160501</originalName>
    </object>
</xmlData>
</mdWrap>
</techMD>
<techMD ID="tech-2">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
                <objectIdentifier>
                    <objectIdentifierType>URI</objectIdentifierType>
                </objectIdentifier>
                <objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/representation/current</objectIdentifierValue>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
                    </relatedObjectIdentifierType>
                    <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/2</relatedObjectIdentifierValue>
                </relatedObjectIdentification>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
                    </relatedObjectIdentifierType>
                    <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</relatedObjectIdentifierValue>
                </relatedObjectIdentification>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
                    </relatedObjectIdentifierType>
                    <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</relatedObjectIdentifierValue>
                </relatedObjectIdentification>
            </relationship>
        </object>
    </xmlData>
</mdWrap>
</techMD>
<techMD ID="tech-3">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
                <objectIdentifier>
                    <objectIdentifierType>URI</objectIdentifierType>
                </objectIdentifier>
                <objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/representation/normalized</objectIdentifierValue>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>

```



```

        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</relatedObjectId
entifierValue>
    </relatedObjectIdentification>
</relationship>
<relationship>
    <relationshipType>structural</relationshipType>
    <relationshipSubType>includes</relationshipSubType>
    <relatedObjectIdentification>
        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
        <relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1-
norm-0</relatedObjectIdentifierValue>
    </relatedObjectIdentification>
</relationship>
<relationship>
    <relationshipType>structural</relationshipType>
    <relationshipSubType>includes</relationshipSubType>
    <relatedObjectIdentification>
        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0</relatedObjectId
entifierValue>
    </relatedObjectIdentification>
</relationship>
</object>
</xmlData>
</mdWrap>
</techMD>
<techMD ID="tech-4">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <object xmlns="info:lc/xmlns/premis-v2" xsi:type="representation">
                <objectIdentifier>
                    <objectIdentifierType>URI</objectIdentifierType>
<objectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/representation/original</objec
tIdentifierValue>
                </objectIdentifier>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</relatedObjectId
entifierValue>
                    </relatedObjectIdentification>
                </relationship>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1</relatedObjectId
entifierValue>
                    </relatedObjectIdentification>
                </relationship>
                <relationship>
                    <relationshipType>structural</relationshipType>
                    <relationshipSubType>includes</relationshipSubType>
                    <relatedObjectIdentification>
                        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0</relatedObjectId
entifierValue>
                    </relatedObjectIdentification>
                </relationship>
            </object>
        </xmlData>
    </mdWrap>
</techMD>

```

```

        </relatedObjectIdentification>
    </relationship>
</object>
</xmlData>
</mdWrap>
</techMD>
<!-- DIGIPROV (events) -->
<digiprovMD ID="digiprov-1">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <event xmlns="info:lc/xmlns/premis-v2">
                <eventIdentifier>
                    <eventIdentifierType>URI</eventIdentifierType>

<eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/event/submit</eventIdentifierVa
lue>

                </eventIdentifier>
                <eventType>submit</eventType>
                <eventDateTime>2011-10-10T16:06:53-04:00</eventDateTime>
                <eventOutcomeInformation>
                    <eventOutcome>success</eventOutcome>
                </eventOutcomeInformation>
                <linkingAgentIdentifier>
                    <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fda/daitss/account/FDA</linkingAgentIdentifie
rValue>

                </linkingAgentIdentifier>
                <linkingObjectIdentifier>
                    <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H</linkingObjectIdentifie
rValue>

                </linkingObjectIdentifier>
            </event>
        </xmlData>
    </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-2">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <event xmlns="info:lc/xmlns/premis-v2">
                <eventIdentifier>
                    <eventIdentifierType>URI</eventIdentifierType>

<eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/event/ingest</eventIdentifierVa
lue>

                </eventIdentifier>
                <eventType>ingest</eventType>
                <eventDateTime>2011-10-10T16:13:40-04:00</eventDateTime>
                <eventOutcomeInformation>
                    <eventOutcome>success</eventOutcome>
                </eventOutcomeInformation>
                <linkingAgentIdentifier>
                    <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
                    <linkingAgentIdentifierValue>info:fda/system-
v0.17.11</linkingAgentIdentifierValue>
                </linkingAgentIdentifier>
                <linkingObjectIdentifier>
                    <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H</linkingObjectIdentifie
rValue>

                </linkingObjectIdentifier>
            </event>
        </xmlData>
    </mdWrap>
</digiprovMD>

```

```

        </event>
    </xmlData>
</mdWrap>
</digiprovMD>
<!-- DIGIPROV (agents) -->
    <digiprovMD ID="digiprov-3">
        <mdWrap MDTYPE="PREMIS">
            <xmlData>
                <agent xmlns="info:lc/xmlns/premis-v2">
                    <agentIdentifier>
                        <agentIdentifierType>URI</agentIdentifierType>
<agentIdentifierValue>info:fda/daitss/account/FDA</agentIdentifierValue>
                    </agentIdentifier>
                    <agentName>DAITSS Account: FDA</agentName>
                    <agentType>Affiliate</agentType>
                </agent>
            </xmlData>
        </mdWrap>
    </digiprovMD>
    <digiprovMD ID="digiprov-4">
        <mdWrap MDTYPE="PREMIS">
            <xmlData>
                <agent xmlns="info:lc/xmlns/premis-v2">
                    <agentIdentifier>
                        <agentIdentifierType>URI</agentIdentifierType>
                        <agentIdentifierValue>info:fda/system-
v2.17.19</agentIdentifierValue>
                    </agentIdentifier>
                    <agentName>daitss system (v2.17.19)</agentName>
                    <agentType>software</agentType>
                </agent>
            </xmlData>
        </mdWrap>
    </digiprovMD>
</amdSec>
<!-- DATA FILE AMD -->
<amdSec>
<!-- TECH -->
    <techMD ID="tech-5">
        <mdWrap MDTYPE="PREMIS">
            <xmlData>
                <object xmlns="info:lc/xmlns/premis-v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="file">
                    <objectIdentifier>
                        <objectIdentifierType>URI</objectIdentifierType>
<objectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</objectIdentifierValue>
                    </objectIdentifier>
                    <objectCharacteristics>
                        <compositionLevel>0</compositionLevel>
                        <fixity>
                            <messageDigestAlgorithm>MD5</messageDigestAlgorithm>
                            <messageDigest>56f5fbde325ce66335104204ea6dbd89</messageDigest>
                            <messageDigestOriginator>Depositor</messageDigestOriginator>
                        </fixity>
                        <fixity>
                            <messageDigestAlgorithm>SHA-1</messageDigestAlgorithm>
<messageDigest>abab1d42cbd0b06de5581eeafda1df4389d7978b</messageDigest>
                            <messageDigestOriginator>Archive</messageDigestOriginator>

```

```

        </fixity>
        <size>32768</size>
        <format>
          <formatDesignation>
            <formatName>OLE2 Compound Document Format</formatName>
          </formatDesignation>
          <formatRegistry>
<formatRegistryName>http://www.nationalarchives.gov.uk/pronom</formatRegistryName>
            <formatRegistryKey>fmt/111</formatRegistryKey>
          </formatRegistry>
        </format>
      </objectCharacteristics>
      <originalName>sip-files/FDA6160501.doc</originalName>
      <linkingEventIdentifier>
        <linkingEventIdentifierType>URI</linkingEventIdentifierType>
<linkingEventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/2/event/describe/0</linkingEventIdentifierValue>
      </linkingEventIdentifier>
    </object>
  </xmlData>
</mdWrap>
</techMD>
<techMD ID="tech-6">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <object xmlns="info:lc/xmlns/premis-v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="file">
        <objectIdentifier>
          <objectIdentifierType>URI</objectIdentifierType>
<objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</objectIdentifierValue>
        </objectIdentifier>
        <objectCharacteristics>
          <compositionLevel>0</compositionLevel>
          <fixity>
            <messageDigestAlgorithm>MD5</messageDigestAlgorithm>
            <messageDigest>86fd493b12cea65f38f1acd526925dc1</messageDigest>
            <messageDigestOriginator>Depositor</messageDigestOriginator>
          </fixity>
          <fixity>
            <messageDigestAlgorithm>SHA-1</messageDigestAlgorithm>
<messageDigest>23c1b31bd135e113785b7bfff4b9c94834f8fa055</messageDigest>
            <messageDigestOriginator>Archive</messageDigestOriginator>
          </fixity>
          <size>255874760</size>
          <format>
            <formatDesignation>
              <formatName>Waveform Audio</formatName>
            </formatDesignation>
            <formatRegistry>
<formatRegistryName>http://www.nationalarchives.gov.uk/pronom</formatRegistryName>
              <formatRegistryKey>fmt/6</formatRegistryKey>
            </formatRegistry>
          </format>
          <objectCharacteristicsExtension>
            <aes:audioObject xmlns:aes="http://www.aes.org/audioObject"
xmlns:tcf="http://www.aes.org/tcf" xmlns:xsi="http://www.w3.org/2001/XMLSchema-

```

```

instance" ID="J4.1" analogDigitalFlag="FILE_DIGITAL" disposition="Validated by
JHOVE" schemaVersion="1.02b">
  <aes:format specificationVersion="">WAVE</aes:format>
  <aes:audioDataEncoding>PCM audio in IEEE floating-point
format</aes:audioDataEncoding>
  <aes:byteOrder>LITTLE_ENDIAN</aes:byteOrder>
  <aes:firstSampleOffset>44</aes:firstSampleOffset>
  <aes:use useType="OTHER" otherType="JHOVE_validation"/>
  <aes:primaryIdentifier
identifierType="FILE_NAME">/var/daitss/tmp/4508_FDA6160501.wav</aes:primaryIden
tifier>
  <aes:face direction="NONE" ID="J3.1" audioObjectRef="J4.1"
label="Face">
    <aes:timeline>
      <tcf:startTime tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
        <tcf:hours>0</tcf:hours>
        <tcf:minutes>0</tcf:minutes>
        <tcf:seconds>0</tcf:seconds>
        <tcf:frames>0</tcf:frames>
        <tcf:samples tcf:sampleRate="S44100">
          <tcf:numberOfSamples>0</tcf:numberOfSamples>
        </tcf:samples>
        <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
      </tcf:startTime>
    </aes:timeline>
    <aes:region ID="J2.1" formatRef="J1.1" faceRef="J3.1"
label="BuiltByJHOVE">
      <aes:timeRange>
        <tcf:startTime tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
          <tcf:hours>0</tcf:hours>
          <tcf:minutes>0</tcf:minutes>
          <tcf:seconds>0</tcf:seconds>
          <tcf:frames>0</tcf:frames>
          <tcf:samples tcf:sampleRate="S44100">
            <tcf:numberOfSamples>0</tcf:numberOfSamples>
          </tcf:samples>
          <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
        </tcf:startTime>
      </aes:timeRange>
      <aes:numChannels>2</aes:numChannels>
      <aes:stream ID="J90.1" label="JHOVE"
faceRegionRef="J2.1">
        <aes:channelAssignment channelNum="0"
mapLocation="LEFT"/>
      </aes:stream>
      <aes:stream ID="J91.1" label="JHOVE"
faceRegionRef="J2.1">
        <aes:channelAssignment channelNum="1"
mapLocation="RIGHT"/>
      </aes:stream>
    </aes:region>
  </aes:face>
</aes:formatList>
  <aes:formatRegion ID="J1.1">
    <aes:bitDepth>32</aes:bitDepth>
    <aes:sampleRate>96000.0</aes:sampleRate>
    <aes:bitrateReduction>

```

```

format</aes:codecName>      <aes:codecName>PCM audio in IEEE floating-point
                             <aes:codecNameVersion/>
                             <aes:codecCreatorApplication/>
                             <aes:codecCreatorApplicationVersion/>
                             <aes:codecQuality>LOSSY</aes:codecQuality>
                             <aes:dataRate>768000</aes:dataRate>
                             <aes:dataRateMode>FIXED</aes:dataRateMode>
                             </aes:bitrateReduction>
                             </aes:formatRegion>
                             </aes:formatList>
                             </aes:audioObject>
                             </objectCharacteristicsExtension>
                             </objectCharacteristics>
                             <originalName>sip-files/FDA6160501.wav</originalName>
                             <linkingEventIdentifier>
                             <linkingEventIdentifierType>URI</linkingEventIdentifierType>
<linkingEventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1/event/describe/0<
/linkingEventIdentifierValue>
                             </linkingEventIdentifier>
                             </object>
                             </xmlData>
                             </mdWrap>
                             </techMD>
                             <techMD ID="tech-7">
                             <mdWrap MDTYPE="PREMIS">
                             <xmlData>
                             <object xmlns="info:lc/xmlns/premis-v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="file">
                             <objectIdentifier>
                             <objectIdentifierType>URI</objectIdentifierType>
<objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</objectIdentifierValue>
                             </objectIdentifier>
                             <objectCharacteristics>
                             <compositionLevel>0</compositionLevel>
                             <fixity>
                             <messageDigestAlgorithm>MD5</messageDigestAlgorithm>
                             <messageDigest>72b52cb73c70d17eabcf2f3fdf88f784</messageDigest>
                             <messageDigestOriginator>Archive</messageDigestOriginator>
                             </fixity>
                             <fixity>
                             <messageDigestAlgorithm>SHA-1</messageDigestAlgorithm>
<messageDigest>466fdb3b40c79ed6246d7f58c76d61d2ba6373ba</messageDigest>
                             <messageDigestOriginator>Archive</messageDigestOriginator>
                             </fixity>
                             <size>3918</size>
                             <format>
                             <formatDesignation>
                             <formatName>Extensible Markup Language</formatName>
                             <formatVersion>1.0</formatVersion>
                             </formatDesignation>
                             <formatRegistry>
<formatRegistryName>http://www.nationalarchives.gov.uk/pronom</formatRegistryName>
                             <formatRegistryKey>fmt/101</formatRegistryKey>
                             </formatRegistry>
                             </format>
                             <objectCharacteristicsExtension>
                             <textMD xmlns="http://www.loc.gov/standards/textMD">

```

```

    <encoding>
      <encoding_platform linebreak="CR/LF"/>
    </encoding>
    <character_info>
      <charset>UTF-8</charset>
      <linebreak>CR/LF</linebreak>
    </character_info>
    <language>
      <markup_basis>XML</markup_basis>
      <markup_language>http://www.loc.gov/METS/</markup_language>
      <processingNote>fcla</processingNote>
    </language>
  </textMD>
  </objectCharacteristicsExtension>
</objectCharacteristics>
<originalName>sip-files/FDA6160501.xml</originalName>
<linkingEventIdentifier>
  <linkingEventIdentifierType>URI</linkingEventIdentifierType>
<linkingEventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0/event/describe/0<
/LinkingEventIdentifierValue>
  </linkingEventIdentifier>
</object>
</xmlData>
</mdWrap>
</techMD>
<techMD ID="tech-8">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <object xmlns="info:lc/xmlns/premis-v2"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="file">
        <objectIdentifier>
          <objectIdentifierType>URI</objectIdentifierType>
          <objectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-norm-
0</objectIdentifierValue>
        </objectIdentifier>
        <objectCharacteristics>
          <compositionLevel>0</compositionLevel>
          <fixity>
            <messageDigestAlgorithm>MD5</messageDigestAlgorithm>
            <messageDigest>324e6056bd049cf3d3bbb3e9d94195c5</messageDigest>
            <messageDigestOriginator>Archive</messageDigestOriginator>
          </fixity>
          <fixity>
            <messageDigestAlgorithm>SHA-1</messageDigestAlgorithm>
<messageDigest>1c56505acd8bb73664c08a2b0f135a957df94aed</messageDigest>
            <messageDigestOriginator>Archive</messageDigestOriginator>
          </fixity>
          <size>127936044</size>
          <format>
            <formatDesignation>
              <formatName>Waveform Audio</formatName>
            </formatDesignation>
            <formatRegistry>
<formatRegistryName>http://www.nationalarchives.gov.uk/pronom</formatRegistryNa
me>
              <formatRegistryKey>fmt/6</formatRegistryKey>
            </formatRegistry>
          </format>
        </format>
      </object>
    </xmlData>
  </mdWrap>
</techMD>

```

```

        <formatName>PCMWAVEFORMAT</formatName>
    </formatDesignation>
    <formatNote>Alternate Format</formatNote>
</format>
<objectCharacteristicsExtension>
    <aes:audioObject xmlns:aes="http://www.aes.org/audioObject"
xmlns:tcf="http://www.aes.org/tcf" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" ID="J4.1-norm-0" analogDigitalFlag="FILE_DIGITAL"
disposition="Validated by JHOVE" schemaVersion="1.02b">
        <aes:format specificationVersion="">WAVE</aes:format>
        <aes:audioDataEncoding>PCM audio in integer
format</aes:audioDataEncoding>
        <aes:byteOrder>LITTLE_ENDIAN</aes:byteOrder>
        <aes:firstSampleOffset>44</aes:firstSampleOffset>
        <aes:use useType="OTHER" otherType="JHOVE_validation"/>
        <aes:primaryIdentifier
identifierType="FILE_NAME">/var/daitss/tmp/6462_1-norm-
0.wav</aes:primaryIdentifier>
        <aes:face direction="NONE" ID="J3.1-norm-0"
audioObjectRef="J4.1-norm-0" label="Face">
            <aes:timeline>
                <tcf:startTime tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
                    <tcf:hours>0</tcf:hours>
                    <tcf:minutes>0</tcf:minutes>
                    <tcf:seconds>0</tcf:seconds>
                    <tcf:frames>0</tcf:frames>
                    <tcf:samples tcf:sampleRate="S44100">
                        <tcf:numberOfSamples>0</tcf:numberOfSamples>
                    </tcf:samples>
                    <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
                </tcf:startTime>
                <tcf:duration tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
                    <tcf:hours>0</tcf:hours>
                    <tcf:minutes>5</tcf:minutes>
                    <tcf:seconds>33</tcf:seconds>
                    <tcf:frames>5</tcf:frames>
                    <tcf:samples tcf:sampleRate="S96000">
                        <tcf:numberOfSamples>0</tcf:numberOfSamples>
                    </tcf:samples>
                    <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
                </tcf:duration>
            </aes:timeline>
            <aes:region ID="J2.1-norm-0" formatRef="J1.1-norm-0"
faceRef="J3.1-norm-0" label="BuiltByJHOVE">
                <aes:timeRange>
                    <tcf:startTime tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
                        <tcf:hours>0</tcf:hours>
                        <tcf:minutes>0</tcf:minutes>
                        <tcf:seconds>0</tcf:seconds>
                        <tcf:frames>0</tcf:frames>
                        <tcf:samples tcf:sampleRate="S44100">
                            <tcf:numberOfSamples>0</tcf:numberOfSamples>
                        </tcf:samples>
                        <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
                    </tcf:startTime>

```



```

        <tcf:duration tcf:frameCount="30" tcf:timeBase="1000"
tcf:videoField="FIELD_1" tcf:countingMode="NTSC_NON_DROP_FRAME">
        <tcf:hours>0</tcf:hours>
        <tcf:minutes>5</tcf:minutes>
        <tcf:seconds>33</tcf:seconds>
        <tcf:frames>5</tcf:frames>
        <tcf:samples tcf:sampleRate="S96000">
        <tcf:numberOfSamples>0</tcf:numberOfSamples>
        </tcf:samples>
        <tcf:filmFraming tcf:framing="NOT_APPLICABLE"
xsi:type="tcf:ntscFilmFramingType"/>
        </tcf:duration>
    </aes:timeRange>
    <aes:numChannels>2</aes:numChannels>
    <aes:stream ID="J90.1-norm-0" label="JHOVE"
faceRegionRef="J2.1-norm-0">
        <aes:channelAssignment channelNum="0"
mapLocation="LEFT"/>
    </aes:stream>
    <aes:stream ID="J91.1-norm-0" label="JHOVE"
faceRegionRef="J2.1-norm-0">
        <aes:channelAssignment channelNum="1"
mapLocation="RIGHT"/>
    </aes:stream>
</aes:region>
</aes:face>
<aes:formatList>
    <aes:formatRegion ID="J1.1-norm-0">
        <aes:bitDepth>16</aes:bitDepth>
        <aes:sampleRate>96000.0</aes:sampleRate>
    </aes:formatRegion>
</aes:formatList>
</aes:audioObject>
</objectCharacteristicsExtension>
</objectCharacteristics>
<originalName>aip-files/1-norm-0.wav</originalName>
<relationship xmlns="info:lc/xmlns/premis-v2">
    <relationshipType>derivation</relationshipType>
    <relationshipSubType>has source</relationshipSubType>
    <relatedObjectIdentification>
        <relatedObjectIdentifierType>URI</relatedObjectIdentifierType>
<relatedObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</relatedObjectId
entifierValue>
    </relatedObjectIdentification>
    <relatedEventIdentification>
        <relatedEventIdentifierType>URI</relatedEventIdentifierType>
        <relatedEventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-
norm-0/event/normalize/0</relatedEventIdentifierValue>
    </relatedEventIdentification>
</relationship>
<linkingEventIdentifier>
    <linkingEventIdentifierType>URI</linkingEventIdentifierType>
    <linkingEventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-
norm-0/event/describe/0</linkingEventIdentifierValue>
</linkingEventIdentifier>
</object>
</xmlData>
</mdWrap>
</techMD>
<!-- DIGIPROV (events) -->
<digiprovMD ID="digiprov-5">

```

```

<mdWrap MDTYPE="PREMIS">
  <xmlData>
    <event xmlns="info:lc/xmlns/premis-v2">
      <eventIdentifier>
        <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2/event/describe/0</eventI
dentifierValue>
      </eventIdentifier>
      <eventType>describe</eventType>
      <eventDateTime>2011-10-10T16:12:57-04:00</eventDateTime>
      <eventDetail>format identified</eventDetail>
      <eventOutcomeInformation>
        <eventOutcome>success</eventOutcome>
      </eventOutcomeInformation>
      <linkingAgentIdentifier>
        <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fda/daitss/description/v0.4.0</linkingAgentId
entifierValue>
      </linkingAgentIdentifier>
      <linkingObjectIdentifier>
        <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</linkingObjectId
entifierValue>
      </linkingObjectIdentifier>
    </event>
  </xmlData>
</mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-6">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>

<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2/event/virus-
check</eventIdentifierValue>
        </eventIdentifier>
        <eventType>virus check</eventType>
        <eventDateTime>2011-10-10T16:12:30-04:00</eventDateTime>
        <eventOutcomeInformation>
          <eventOutcome>success</eventOutcome>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
          <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fcla/archive/service/viruscheck</linkingAgent
IdentifierValue>
        </linkingAgentIdentifier>
        <linkingObjectIdentifier>
          <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/2</linkingObjectId
entifierValue>
        </linkingObjectIdentifier>
      </event>
    </xmlData>
  </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-7">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">

```

```

        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1/event/describe/0</eventI
dentifierValue>
        </eventIdentifier>
<eventType>describe</eventType>
<eventDateTime>2011-10-10T16:13:17-04:00</eventDateTime>
<eventDetail>Well-Formed and valid</eventDetail>
<eventOutcomeInformation>
  <eventOutcome>success</eventOutcome>
  <eventOutcomeDetail>
    <eventOutcomeDetailExtension>
      <anomaly>Chunk type '_PMX' ignored</anomaly>
      <anomaly>Chunk type 'DISP' ignored</anomaly>
    </eventOutcomeDetailExtension>
  </eventOutcomeDetail>
</eventOutcomeInformation>
<linkingAgentIdentifier>
  <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fda/daitss/description/v0.4.0</linkingAgentId
entifierValue>
  </linkingAgentIdentifier>
  <linkingObjectIdentifier>
    <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1</linkingObjectId
entifierValue>
    </linkingObjectIdentifier>
  </event>
</xmlData>
</mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-8">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1/event/virus-
check</eventIdentifierValue>
        </eventIdentifier>
        <eventType>virus check</eventType>
        <eventDateTime>2011-10-10T16:12:57-04:00</eventDateTime>
        <eventOutcomeInformation>
          <eventOutcome>success</eventOutcome>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
          <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fcla/archive/service/viruscheck</linkingAgent
IdentifierValue>
          </linkingAgentIdentifier>
          <linkingObjectIdentifier>
            <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/1</linkingObjectId
entifierValue>
            </linkingObjectIdentifier>
          </event>
        </xmlData>
      </mdWrap>
    </digiprovMD>
  <digiprovMD ID="digiprov-9">

```

```

<mdWrap MDTYPE="PREMIS">
  <xmlData>
    <event xmlns="info:lc/xmlns/premis-v2">
      <eventIdentifier>
        <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0/event/describe/0</eventI
dentifierValue>
      </eventIdentifier>
      <eventType>describe</eventType>
      <eventDateTime>2011-10-10T16:13:26-04:00</eventDateTime>
      <eventDetail>Well-Formed and valid</eventDetail>
      <eventOutcomeInformation>
        <eventOutcome>success</eventOutcome>
      </eventOutcomeInformation>
      <linkingAgentIdentifier>
        <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fda/daitss/description/v0.4.0</linkingAgentId
entifierValue>
      </linkingAgentIdentifier>
      <linkingObjectIdentifier>
        <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0</linkingObjectId
entifierValue>
      </linkingObjectIdentifier>
    </event>
  </xmlData>
</mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-10">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>
          <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0/event/xmlresolution</eve
ntIdentifierValue>
        </eventIdentifier>
        <eventType>XML Resolution</eventType>
        <eventDateTime>2011-10-10T16:13:37-04:00</eventDateTime>
        <eventOutcomeInformation>
          <eventOutcome>success</eventOutcome>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
          <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fcla/daitss/xmlresolution/1.3.6</linkingAgent
IdentifierValue>
        </linkingAgentIdentifier>
        <linkingObjectIdentifier>
          <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J3OL1H/file/0</linkingObjectId
entifierValue>
        </linkingObjectIdentifier>
      </event>
    </xmlData>
  </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-11">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <event xmlns="info:lc/xmlns/premis-v2">
        <eventIdentifier>

```

```

        <eventIdentifierType>URI</eventIdentifierType>
<eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0/event/virus-
check</eventIdentifierValue>
    </eventIdentifier>
    <eventType>virus check</eventType>
    <eventDateTime>2011-10-10T16:12:57-04:00</eventDateTime>
    <eventOutcomeInformation>
        <eventOutcome>success</eventOutcome>
    </eventOutcomeInformation>
    <linkingAgentIdentifier>
        <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fcla/archive/service/viruscheck</linkingAgent
IdentifierValue>
    </linkingAgentIdentifier>
    <linkingObjectIdentifier>
        <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/0</linkingObjectId
entifierValue>
    </linkingObjectIdentifier>
</event>
</xmlData>
</mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-12">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <event xmlns="info:lc/xmlns/premis-v2">
                <eventIdentifier>
                    <eventIdentifierType>URI</eventIdentifierType>
                    <eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-norm-
0/event/describe/0</eventIdentifierValue>
                </eventIdentifier>
                <eventType>describe</eventType>
                <eventDateTime>2011-10-10T16:13:35-04:00</eventDateTime>
                <eventDetail>Well-Formed and valid</eventDetail>
                <eventOutcomeInformation>
                    <eventOutcome>success</eventOutcome>
                </eventOutcomeInformation>
                <linkingAgentIdentifier>
                    <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>
<linkingAgentIdentifierValue>info:fda/daitss/description/v0.4.0</linkingAgentId
entifierValue>
                </linkingAgentIdentifier>
                <linkingObjectIdentifier>
                    <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
                    <linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-
norm-0</linkingObjectIdentifierValue>
                </linkingObjectIdentifier>
            </event>
        </xmlData>
    </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-13">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <event xmlns="info:lc/xmlns/premis-v2">
                <eventIdentifier>
                    <eventIdentifierType>URI</eventIdentifierType>
                    <eventIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-norm-
0/event/normalize/0</eventIdentifierValue>

```

```

        </eventIdentifier>
        <eventType>normalize</eventType>
        <eventDateTime>2011-10-10T16:13:21-04:00</eventDateTime>
        <eventDetail>normalization: wave_norm
format: Waveform Audio
codec: PCM
format version: None
revision date: 2010.09.16</eventDetail>
        <eventOutcomeInformation>
            <eventOutcome>success</eventOutcome>
        </eventOutcomeInformation>
        <linkingAgentIdentifier>
            <linkingAgentIdentifierType>URI</linkingAgentIdentifierType>

<linkingAgentIdentifierValue>info:fda/daitss/transform/wave/norm/v0.1.1</linkin
AgentIdentifierValue>
        </linkingAgentIdentifier>
        <linkingObjectIdentifier>
            <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>
            <linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1-
norm-0</linkingObjectIdentifierValue>
            <linkingObjectRole>outcome</linkingObjectRole>
        </linkingObjectIdentifier>
        <linkingObjectIdentifier>
            <linkingObjectIdentifierType>URI</linkingObjectIdentifierType>

<linkingObjectIdentifierValue>info:fda/E88XBTT1Q_J30L1H/file/1</linkingObjectId
entifierValue>
            <linkingObjectRole>source</linkingObjectRole>
        </linkingObjectIdentifier>
    </event>
</xmlData>
</mdWrap>
</digiprovMD>
<!-- DIGIPROV (agents) -->
<digiprovMD ID="digiprov-14">
    <mdWrap MDTYPE="PREMIS">
        <xmlData>
            <agent xmlns="info:lc/xmlns/premis-v2">
                <agentIdentifier>
                    <agentIdentifierType>URI</agentIdentifierType>

<agentIdentifierValue>info:fda/daitss/transform/wave/norm/v0.1.1</agentIdentifi
erValue>
                </agentIdentifier>
                <agentName>Transformation Service</agentName>
                <agentType>Web Service</agentType>
                <agentNote>
                    FFmpeg version %{evr}, Copyright (c) 2000-2009 Fabrice
Bellard, et al.
                    configuration: --prefix=/usr --libdir=/usr/lib64 --
shlibdir=/usr/lib64 --mandir=/usr/share/man --enable-shared --enable-gpl --
enable-nonfree --enable-pthreads --disable-avisynth --disable-vhook --disable-
mmx --enable-libdc1394 --enable-libfaac --enable-libfaad --enable-libfaadbin --
enable-libmp3lame --enable-libopenjpeg --enable-libspeex --enable-libtheora --
enable-libvorbis --enable-libx264 --enable-libxvid --extra-cflags=-O2 -g -m64 -
mtune=generic -fPIC --disable-stripping
                    libavutil      49.15. 0 / 49.15. 0
                    libavcodec     52.20. 1 / 52.20. 1
                    libavformat    52.31. 0 / 52.31. 0
                    libavdevice    52. 1. 0 / 52. 1. 0

```

```

built on May 10 2010 12:38:53, gcc: 4.1.2 20080704 (Red
Hat 4.1.2-46)
    </agentNote>
  </agent>
</xmlData>
</mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-15">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <agent xmlns="info:lc/xmlns/premis-v2">
        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
<agentIdentifierValue>info:fcla/archive/service/viruscheck</agentIdentifierValue>
        </agentIdentifier>
        <agentName>daitss virus check service</agentName>
        <agentType>web service</agentType>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-16">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <agent xmlns="info:lc/xmlns/premis-v2">
        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
<agentIdentifierValue>info:fda/daitss/description/v0.4.0</agentIdentifierValue>
        </agentIdentifier>
        <agentName>Format Description Service</agentName>
        <agentType>Web Service</agentType>
        <agentNote>built with JHOVE 1.6 (built on August 8, 2011), DROID
3.0 with DROID signature file version 34.</agentNote>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>
<digiprovMD ID="digiprov-17">
  <mdWrap MDTYPE="PREMIS">
    <xmlData>
      <agent xmlns="info:lc/xmlns/premis-v2">
        <agentIdentifier>
          <agentIdentifierType>URI</agentIdentifierType>
<agentIdentifierValue>info:fcla/daitss/xmlresolution/1.3.6</agentIdentifierValue>
        </agentIdentifier>
        <agentName>XML Resolution Service</agentName>
        <agentType>Web Service</agentType>
        <agentNote>XMLResolution Version 1.3.6, Git Revision
3f84c7645ec8fe9a7abeb88188df9b641e0bdc95, Capistrano Release
20110921173200</agentNote>
      </agent>
    </xmlData>
  </mdWrap>
</digiprovMD>
</amdSec>
</fileSec>

```

```

<fileGrp>
  <file ID="file-2" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/2" ADMID="tech-
5 digiprov-5 digiprov-6 digiprov-15 digiprov-16" SIZE="32768"
CHECKSUMTYPE="SHA-1" CHECKSUM="ababd42cbd0b06de5581eeafda1df4389d7978b">
  <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.doc"/>
  </file>
  <file ID="file-1" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/1" ADMID="tech-
6 digiprov-7 digiprov-8 digiprov-15 digiprov-16" SIZE="255874760"
CHECKSUMTYPE="SHA-1" CHECKSUM="23c1b31bd135e113785b7bff4b9c94834f8fa055">
  <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.wav"/>
  </file>
  <file ID="file-0" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/0" ADMID="tech-
7 digiprov-9 digiprov-10 digiprov-11 digiprov-15 digiprov-16 digiprov-17"
SIZE="3918" CHECKSUMTYPE="SHA-1" USE="sip descriptor"
CHECKSUM="466fdb3b40c79ed6246d7f58c76d61d2ba6373ba">
  <FLocat LOCTYPE="URL" xlink:href="sip-files/FDA6160501.xml"/>
  </file>
  <file ID="file-1-norm-0" OWNERID="info:fda/E88XBTT1Q_J3OL1H/file/1-norm-
0" ADMID="tech-8 digiprov-12 digiprov-13 digiprov-14 digiprov-16"
SIZE="127936044" CHECKSUMTYPE="SHA-1"
CHECKSUM="1c56505acd8bb73664c08a2b0f135a957df94aed">
  <FLocat LOCTYPE="URL" xlink:href="aip-files/1-norm-0.wav"/>
  </file>
</fileGrp>
</fileSec>
<structMap ID="current">
  <div ADMID="tech-2">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
<structMap ID="normalized">
  <div ADMID="tech-3">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1-norm-0"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
<structMap ID="original">
  <div ADMID="tech-4">
    <fptr FILEID="file-2"/>
    <fptr FILEID="file-1"/>
    <fptr FILEID="file-0"/>
  </div>
</structMap>
</mets>

```