

# Updating Open Source AV Preservation Tools to Better Serve the Preservation Community

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IASA September 2024  
Valencia, Spain



**Federal Agencies  
Digital Guidelines Initiative**

### About This Initiative

FADGI is a collaborative effort started in 2007 by federal agencies to articulate common sustainable practices and guidelines for digitized and born digital historical, archival and cultural content. Two working groups study issues specific to two major areas, Still Image and Audio-Visual.

**Summary chart** of FADGI's impact within the Library of Congress and the wider community. Updated September 9, 2024.

[Learn more about the initiative »](#)

#### Still Image Working Group



This group is involved in a cooperative effort to develop common digitization guidelines for still image materials.

#### Audio-Visual Working Group



This group works collaboratively on common and sustainable technical guidelines, methods, and practices for digitized and born digital sound recordings and moving images.

The Federal Agencies Digital Guidelines Initiative (FADGI) does not review, certify, or endorse commercial products, and does not maintain lists or other information about commercial products that claim FADGI conformance.

## FADGI Guidelines

The tools and guidelines linked below are the most widely used FADGI resources. For additional guidelines please click the link above.

**[embARC](#)** Open Source Software for Embedded Metadata  
Updated by Working Group | September 2024

*embARC (metadata embedded for archival content)* is a free, open source application that enables users to manage (i.e., audit, validate and correct) embedded metadata in DPX files as individual files or an entire DPX sequence as well as RDD 48 compliant MXF files, while not impacting the image data. Recent updates include improved accessibility support for table navigation.

#### **[Guidelines for Embedded Metadata in WebVTT Files](#)**

Approved by Working Group | June 2024

Embedded metadata structure to document provenance, administrative history, and contextual information for WebVTT files which are often used for captions and subtitles to support accessibility.

#### **[Guidelines for IRENE System Products for Long Term Retention: Deliverable Packages for Imaged Audio Systems](#)**

Approved by Working Group | June 2024

Joint project of the FADGI AV and Still Images Working Groups to define, for the digital preservation community, standard output packages for imaged audio created by non-contact scanning.

#### **[Software Accessibility for Open Source Digital Preservation Applications](#)**

Approved by Working Group | March 2024

The FADGI AV Working Group project seeks to provide broadly applicable recommendations on accessibility best practices for open-source software. Deliverables include a final report and recommendations.

#### **[Technical Guidelines for the Still Image Digitization of Cultural Heritage Materials \(3rd Edition\)](#)**

[Print](#) [Subscribe](#) [Share/Save](#)

### News & Events

- Demonstration of *embARC's* accessibility features at *iPres 2024 Great Preservation Bake-off*, September 18, 2024
- FADGI updates at the *IASA (International Association of Sound and Audiovisual Archives Conference)*, September 2024

[See more News & Events »](#)

### Frequently Requested Guidelines and Tools

- [embARC \(Metadata Embedded for Archival Content\)](#)
- [OpenDICE and AutoSFR](#)
- [ADCTest](#)
- [MXF Application Specification and Sample Files](#)
- [Audio Analog-to-Digital Converter Performance](#)
- [Digitizing Motion Picture Film](#)
- [Creating and Archiving Born Digital Video](#)
- [DRAFT Significant Properties for Digital Video](#)
- [File Format Comparison Projects](#)
- [Embedding Metadata in Broadcast WAVE Files](#)

[See more Guidelines »](#)

### Blog Posts

- [New FADGI Project: Researching Accessibility in Open-Source Digital Preservation Applications](#), May 30, 2023
- [Getting the Band Back Together: Recap of FADGI Audiovisual Working Group Meeting](#), May 18, 2023
- [3rd Edition of FADGI Still Image Digitization Guidelines Finalized](#), May 11, 2023
- [FADGI's embARC Now Supports FFV1!](#), October 11, 2022
- [FADGI is a Finalist for the Digital Preservation Coalition 20th Anniversary Award](#), June 23, 2022
- [FADGI Publishes Revision to Influential Still Image](#)

<http://www.digitizationguidelines.gov>



[Home](#) > Software[Print](#) [Subscribe](#) [Share/Save](#)

## Software

Software applications are classified as:

- *Free* in which the application is available at no cost.
- *Free and open source (FOSS)* in which the application is both available at no cost and, among other things, that the source code is available. See [The Open Source Definition](#) from the Open Source Initiative (OSI) for more information.
- *Developed by FADGI* in which FADGI or FADGI-sponsored contractors provide all the development and maintenance work for the application.
- *Partially Sponsored by FADGI* in which FADGI provides support for specific areas of interest related to FADGI guidelines or workflows in existing applications. These are not "FADGI tools" but rather examples of FADGI contributions to other software projects.

Please reach out to FADGI at [feddigitization@loc.gov](mailto:feddigitization@loc.gov) with any questions.

### Audio-Visual Working Group

#### **embARC**

FOSS | Developed by FADGI

Fully sponsored by FADGI since 2019, embARC is developed and maintained by A/P, Medex Forensics and PortalMedia to manage embedded metadata in DPX and MXF files including FFV1 in MXF.

Current contract tasks are documented at public the GitHub [issue tracker](#)

#### **vrecord**

FOSS | Partially Sponsored by FADGI

Starting in 2024, FADGI provides limited contract development support through MediaArea and RiceCapades for [vrecord](#), an open-source software for capturing a video signal and turning it into a digital file.

Specific tasks are identified in the public [issue tracker](#) on GitHub with the "FADGI" tag. Tasks marked with the "FADGI Wishlist" tag will be completed if funding is available. If other entities are interested in these tasks, they

## Working Groups

### **Still Image Working Group**

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### **Audio-Visual Working Group**

This group works collaboratively on common and sustainable technical guidelines, methods, and practices for digitized and born digital sound recordings and moving images.

<http://www.digitizationguidelines.gov/software>

# Guidelines: Software Accessibility for Open Source Digital Preservation Applications

- Literature review and research
- Accessibility testing and analysis of three open-source applications related to digital preservation:
  - embARC ('metadata embedded for archival content')
  - BWF MetaEdit
  - Handbrake
- Reported findings, recommendations, and guidelines for improved accessibility in FOSS apps
- *<https://blogs.loc.gov/thesignal/2024/01/fadgi-report-software-accessibility-for-open-source-applications/>*



# BWFMetaEdit

- Character support for CP437, CP850, CP858, Windows-1252, ISO 8859-1, ISO 8859-2 encoded fields
- Add options to bypass some EBU R98-1999 (CodingHistory) limitations (ANALOG vs ANALOGUE, comma at EOL, >48k frequencies, ...)
- Support single XML export with all metadata (bext, cues, LIST-INFO, axml, file attributes, etc).
- File management and writing optimization



# BWFMetaEdit

BWF MetaEdit - Audio-Visual Working Group of the Federal Agencies Digital Guidelines Initiative

	FileName	FileSize	Format	CodecID	Channels	SampleRate	BitRate	BitPerSample	Duration	Unsupp
1	Documents/GitHub/astataudit/astataudit_phase_test_file.wav	1036805090	Wave	0001	2	96000	4608000	24	00:30:00.000	
2	Documents/GitHub/astataudit/correlation.wav	345600102	Wave	00000001-0000-0010-8000-00AA00389B71	1	96000	1536000	16	00:30:00.000	
3	Downloads/DC Offset examples/WNYC-NYAC-1992-10-13-40834.6 WITH 50HZ HIGHPASS 48DBperOCTAVE.wav	1234300666	Wave	0001	2	44100	1411200	16	01:56:37.096	
4	Downloads/Nosie floor offset example/REC0078_T3861 Noise floor offset.wav	918492618	Wave	0001	2	96000	4608000	24	00:26:34.594	
5	Downloads/WNYC-OTM-2000-12-15-45245.5 Jon Stewart WEB EDIT.WAV	571494366	Wave	0001	2	44100	1411200	16	00:53:59.482	
6	morpho/WNYC-NSDS-1987-05-18-32981.5b New Sounds Pgm 61 Part 2 COPY.wav	619758916	Wave	0001	2	96000	4608000	24	00:17:55.968	

BWF MetaEdit - Audio-Visual Working Group of the Federal Agencies Digital Guidelines Initiative

	FileName	FileSize	Format	CodecID	Channels	SampleRate	BitRate	BitPerSample	Duration	U
1	Documents/GitHub/astataudit/astataudit_phase_test_file.wav	1036805090	Wave	0001	2	96000	4608000	24	00:30:00.000	
2	Documents/GitHub/astataudit/correlation.wav	345600102	Wave	00000001-0000-0010-8000-00AA00389B71	1	96000	1536000	16	00:30:00.000	
3	Downloads/DC Offset examples/WNYC-NYAC-1992-10-13-40834.6 WITH 50HZ HIGHPASS 48DBperOCTAVE.wav	1234300666	Wave	0001	2	44100	1411200	16	01:56:37.096	
4	Downloads/Nosie floor offset example/REC0078_T3861 Noise floor offset.wav	918492618	Wave	0001	2	96000	4608000	24	00:26:34.594	
5	Downloads/WNYC-OTM-2000-12-15-45245.5 Jon Stewart WEB EDIT.WAV	571494366	Wave	0001	2	44100	1411200	16	00:53:59.482	
6	morpho/WNYC-NSDS-1987-05-18-32981.5b New Sounds Pgm 61 Part 2 COPY.wav	619758916	Wave	0001	2	96000	4608000	24	00:17:55.968	

# FFmpeg

- Copying JPEG2000 from MXF to Matroska
- Copying JPEG2000 from Matroska to MXF
- Copying FFV1 from MXF to Matroska
- Copying FFV1 from Matroska to MXF

## SMPTE RDD 48:2018 Amendment 1:2022

### SMPTE REGISTERED DISCLOSURE DOCUMENT

#### MXF Archive and Preservation Format Application Specification – Amendment 1



Page 1 of 6 pages

The attached document is a Registered Disclosure Document prepared by the sponsor identified below. It has been examined by the appropriate SMPTE Technology Committee and is believed to contain adequate information to satisfy the objectives defined in the Scope, and to be technically consistent.

This document is NOT a Standard, Recommended Practice or Engineering Guideline, and does NOT imply a finding or representation of the Society.

Every attempt has been made to ensure that the information contained in this document is accurate. Errors in this document should be reported to the proponent identified below, with a copy to [eng@smpte.org](mailto:eng@smpte.org).

All other inquiries in respect of this document, including inquiries as to intellectual property requirements that may be attached to use of the disclosed technology, should be addressed to the proponent identified below.

Proponent contact information:  
Kate Murray  
Library of Congress  
101 Independence Ave, S.E.  
Washington, DC 20540-1300

# FFmpeg

- Timecode in Matroska

```
<?xml version="1.0"?>
<MediaTimecode xmlns="https://mediaarea.net/mediatimecode">
  <media>
    <timecode_stream id="1-Material" format="smpte-st377"
      frame_rate="30000/1001" frame_count="600" start_tc="01:00:00;00"/>
    <timecode_stream id="1-Source" format="smpte-st377"
      frame_rate="30000/1001" frame_count="600" start_tc="01:00:00;00"/>
    <timecode_stream id="2-Source" format="smpte-st377"
      frame_rate="30000/1001" frame_count="600" start_tc="03:00:00;00"/>
    <timecode_stream id="3-Source" format="smpte-st377"
      frame_rate="30000/1001" frame_count="600" start_tc="03:00:00;00"/>
    <timecode_stream id="4-Source" format="smpte-st377"
      frame_rate="30000/1001" frame_count="114" start_tc="00:00:02;04"/>
    <timecode_stream id="SystemScheme1-0-0" format="smpte-st331"
      frame_rate="30000/1001" fp="0" bgf="0" bg="0">
      <tc v="01:00:00;00"/>
      <tc v="01:00:00;01"/>
      <tc v="01:00:00;02"/>
      <tc v="01:00:00;03"/>
      <tc v="21:00:04;20"/>
    </timecode_stream>
  </media>
</MediaTimecode>
```



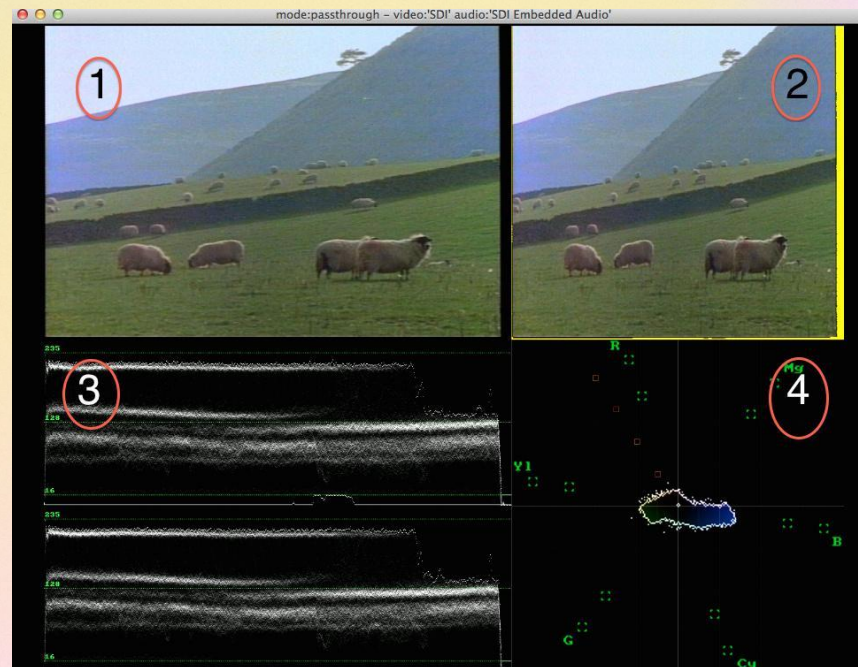
# vrecord

Open Source software for creating preservation-grade digital recordings from video tape

The tool was built by archivist, for archivists, and contains many useful features and tools

- Built-in Waveform and Vector Scopes
- Ability to create FFV1/MKV Files
- Built in QCTools reports and Conformance

Checking



Welcome to Vrecord!

Decklink
DV
Audio
Config

Decklink input options

Video Card

Rescan

Video Input

Composite  
 SDI  
 Component  
 S-Video

Audio Input

Analog  
 SDI Embedded Audio  
 Digital Audio (AES/EBU)

Audio Channel Mapping

2 Stereo Tracks (Channels 1 & 2 -> 1st Tra  
 1 Stereo Track (From Channels 1 & 2)  
 1 Stereo Track (From Channels 3 & 4)  
 Channel 1 -> 1st Track Mono, Channel 2 ->  
 Channel 2 -> 1st Track Mono, Channel 1 ->  
 Channel 1 -> Single Track Mono

Standard

NTSC  
 PAL

Video Bit Depth

10 bit  
 8 bit

Display Aspect Ratio

4/3  
 16/9

Timecode format

none  
 rp188vltc  
 rp188vltc2  
 rp188ltc  
 rp188any  
 vltc

Scan timecode types

Output file options

Embed digitization logs in video file (Matroska ONLY)

Yes  
 No

Select File Format

QuickTime  
 Matroska  
 AVI  
 MXF  
 MP4

FFV1 Slice Count

4  
 6  
 9  
 12  
 16  
 24

Select Video Codec

Uncompressed Video  
 FFV1 version 3  
 JPEG2000  
 ProRes  
 ProRes (HQ)  
 h264

Select Audio Codec

24-bit PCM  
 24-bit FLAC  
 AAC

Playback options

View (recording)

Unfiltered  
 Visual  
 Audio + Video  
 Visual + Numerical  
 Color Matrix  
 Bit Planes

View (passthrough)

Unfiltered  
 Visual  
 Audio + Video  
 Visual + Numerical  
 Color Matrix  
 Bit Planes

Sidecar file options

☒ Access MP4  
☒ FrameMD5s

QCTools XML?

Yes, concurrent with recording  
 Yes, after recording  
 No

RS422 deck control

Status

disabled

Timecode

Deck Control

⏮

⏪

⏩

⏭

⏮

⏪

⏩

⏭

Eject

Select a recording directory

/Users/drice/Desktop/checksumtest

Select a directory for auxiliary files (leave blank to match the recording directory).

/Users/drice/Desktop/checksumtest

Recording event options

Name of Recording

Name of the person digitizing this tape.

Recording time in minutes

File naming options

Optional filename prefix

Optional filename suffix

☒ Disable suffixes

Output Filename: /Users/drice/Desktop/checksumtest.mkv

Errors & Warnings:

ERROR: The recording directory (/Users/drice/Desktop/checksumtest) does not exist. Please set or /Users/drice/Documents/GitHub/vrecord will be used instead.  
 ERROR: The auxiliary directory (/Users/drice/Desktop/checksumtest) does not exist. Create this folder or leave blank to use the recording directory.

Home

Settings

Record

Passthrough

Save Settings

Cancel

Refresh

Welcome to Record!

Decklink | DV | Audio | Config

Decklink input options

Video Card	Video Input	Audio Input	Audio Channel Mapping	Standard	Video Bit Depth	Display Aspect Ratio	Timecode format
	Composite SDI Component S-Video	Analog SDI Embedded Audio Digital Audio (AES/EBU)	2 Stereo Tracks (Channels 1 & 2 -> 1st Tra 1 Stereo Track (From Channels 1 & 2) 1 Stereo Track (From Channels 3 & 4) Channel 1 -> 1st Track Mono, Channel 2 -> Channel 2 -> 1st Track Mono, Channel 1 -> Channel 1 -> Single Track Mono	NTSC PAL	10 bit 8 bit	4/3 16/9	none rp188vltc rp188vltc2 rp188ltc rp188any vltc
Rescan		Scan timecode types					

Output file options

Embed digitization logs in video file (Matroska ONLY)	Select File Format	FFV1 Slice Count	Select Video Codec	Select Audio Codec
Yes No	QuickTime Matroska AVI MXF MP4	4 6 9 12 16 24	Uncompressed Video FFV1 version 3 JPEG2000 ProRes ProRes (HQ) h264	24-bit PCM 24-bit FLAC AAC

Playback options

View (recording)	Sidecar file options	QCTools XML?	RS422 deck control
Unfiltered Visual Audio + Video Visual + Numerical Color Matrix Bit Planes	<input checked="" type="checkbox"/> Access MP4 <input checked="" type="checkbox"/> FrameMD5s	Yes, concurrent with recording Yes, after recording No	<div style="display: flex; justify-content: space-between;"> <div>Status disabled</div> <div>Timecode --:--:--</div> </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px 5px;">Deck Control</div> <div style="margin: 0 5px;">⏮</div> <div style="margin: 0 5px;">⏪</div> <div style="margin: 0 5px;">⏩</div> <div style="margin: 0 5px;">⏭</div> <div style="margin: 0 5px;">⏮</div> <div style="margin: 0 5px;">⏪</div> <div style="margin: 0 5px;">⏩</div> <div style="margin: 0 5px;">⏭</div> <div style="margin: 0 5px;">Eject</div> </div>

Select a recording directory

Select a directory for auxiliary files (leave blank to match the recording directory).

Recording event options

Name of Recording	Name of the person digitizing this tape.	Recording time in minutes	File naming options	Optional filename suffix
<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	<input style="width: 95%;" type="text"/>	Optional filename prefix <input style="width: 95%;" type="text"/>	Optional filename suffix <input style="width: 95%;" type="text"/>

Output Filename:

Errors & Warnings:

ERROR: The recording directory (/Users/drice/Desktop/checksumtest) does not exist. Please set or /Users/drice/Documents/GitHub/record will be used instead.  
 ERROR: The auxiliary directory (/Users/drice/Desktop/checksumtest) does not exist. Create this folder or leave blank to use the recording directory.

Home

Settings

● Record

▶ Passthrough

💾 Save Settings

✖ Cancel

🔄 Refresh



# Welcome to Vrecord!

## Input Options

Decklink | DV | Audio | Config

### Decklink input options

Video Card	Video Input	Audio Input	Audio Channel Mapping	Standard	Video Bit Depth	Display Aspect Ratio	Timecode format
	Composite SDI Component S-Video	Analog SDI Embedded Audio Digital Audio (AES/EBU)	2 Stereo Tracks (Channels 1 & 2 -> 1st Track Mono, Channel 2 -> 1st Track Mono) 1 Stereo Track (From Channels 1 & 2) 1 Stereo Track (From Channels 3 & 4) Channel 1 -> 1st Track Mono, Channel 2 -> 1st Track Mono, Channel 3 -> 1st Track Mono, Channel 4 -> 1st Track Mono Channel 2 -> 1st Track Mono, Channel 1 -> 1st Track Mono Channel 1 -> Single Track Mono	NTSC PAL	10 12 14	4/3 16/9	none rp188vitc rp188vitc2 rp188ltc rp188any vitc
Rescan		Scan timecode types					

### Output file options

Embed digitization logs in video file (Matroska ONLY)	Select File Format	FFV1 Slice Count	Select Video Codec	Select Audio Codec
Yes No	QuickTime Matroska AVI MXF MP4	4 6 9 12 16 24	Uncompressed Video FFV1 version 3 JPEG2000 ProRes ProRes (HQ) h264	24-bit PCM 24-bit FLAC AAC

### Playback options

View (recording)	View (passthrough)	Sidecar file options	QCTools XML?	RS422 deck control
Unfiltered Visual Audio + Video Visual + Numerical Color Matrix Bit Planes	Unfiltered Visual Audio + Video Visual + Numerical Color Matrix Bit Planes	<input checked="" type="checkbox"/> Access MP4 <input checked="" type="checkbox"/> FrameMD5s	Yes, concurrent with recording Yes, after recording No	Status: disabled Timecode: --:--:-- Deck Control: [Eject]

### Select a recording directory

/Users/drice/Desktop/checksumtest

### Select a directory for auxiliary files (leave blank to match the recording directory).

/Users/drice/Desktop/checksumtest

### Recording event options

Name of Recording	Name of the person digitizing this tape.	Recording time in minutes

### File naming options

Optional filename prefix	Optional filename suffix	<input checked="" type="checkbox"/> Disable suffixes

Output Filename: /Users/drice/Desktop/checksumtest/mkv

Errors & Warnings: ERROR: The recording directory (/Users/drice/Desktop/checksumtest) does not exist. Please set or /Users/drice/Documents/GitHub/record will be used instead.  
ERROR: The auxiliary directory (/Users/drice/Desktop/checksumtest) does not exist. Create this folder or leave blank to use the recording directory.

Home

Settings

Record

Passthrough

Save Settings

Cancel

Refresh

# Output Options

Decklink | DV | Audio | Config

## References

Player | MP4 Sidelcar | Aspect Ratio

Player AspectRatioSettings

Here you can set the sample aspect ratio to use for any display aspect ratio. The recommendation of the vrecord community is the first value of each list. If unset then the recommendation will be used.

NTSC 4/3

NTSC 16/9

PAL 4/3

PAL 16/9

10/11  
8/9  
9/10  
4320/4739

40/33  
32/27  
6/5  
5760/4739

12/11  
16/15  
128/117

16/11  
64/45  
512/351

## Invert Audio Phase

WARNING: Do not use this option unless required

This options applies only to decklink inputs

☐ Invert channel 2

☐ Invert channel 4

## Optional Tools

deckcontrol:   
gnuplot:   
mediaconch:   
mkvpropedit:   
mpv:   
qcli:   
dvpackager: 

## FFmpeg Status

## Environment

## Alternate Dependency Source

VRECORD\_VARS\_FILE="/tmp/v\_.\_vrecord\_variables.txt"  
OS\_TYPE="macOS"  
RESOURCE\_PATH="/Resources"  
DEFAULTFONT="/System/Library/Fonts/Supplemental/Andale Mono.ttf"  
CORE\_COUNT="8"  
OPEN\_COMMAND="open"  
ZCAT\_COMMAND="gzcat"  
COMPUTER\_MODEL\_NAME="MacBook Air"  
DIR\_SELECTION\_DIALOG="Select an existing folder (or drag/drop one below). File System/Volumes for external media."  
GTKDIALOGBIN="/opt/homebrew/bin/gtkdialog"  
COMPUTER\_MODEL\_ID="MacBookAir1,1"

Check FFmpeg status

Reset Environment Variables

Select a recording directory

/Users/drice/Desktop/checksumtest

Select a directory for auxiliary files (leave blank to match the recording directory).

/Users/drice/Desktop/checksumtest

Recording event options

Name of Recording

Name of the person digitizing this tape.

Recording time in minutes

File naming options

Optional filename prefix

Optional filename suffix

☒ Disable suffixes

Output Filename: /Users/drice/Desktop/checksumtest/.


Errors & Warnings: ERROR: The recording directory (/Users/drice/Desktop/checksumtest) does not exist. Please set or /Users/drice/Documents/GitHub/vrecord will be used instead.  
ERROR: The auxiliary directory (/Users/drice/Desktop/checksumtest) does not exist. Create this folder or leave blank to use the recording directory.

 Home

 Settings

 Record

 Passthrough

 Save Settings

 Cancel

 Refresh

# Proposed Enhancements

Create H.264  
Access files  
concurrently with  
Preservation files

Simple Record  
Mode

vrecord  
.pkg installer

*Proposed Enhancements are meant to address the needs of  
**Federal Agencies** using vrecord*



# Tracking Progress

<https://github.com/amiaopensource/vrecord/issues>

Tags for tickets addressing  
FADGI-sponsored updates



3 Open 4 Closed

SRT and VTT files are no longer being made FADGI

#831 opened yesterday by iamdamosuzuki

Feature Request: Quick Capture Interface FADGI

#792 opened on Mar 5 by iamdamosuzuki

vrecord installer package? FADGI

#751 opened on Jun 23, 2023 by iamdamosuzuki

4 Open 1 Closed

Show decoded caption data in Caption viewer FADGI Wishlist

#810 opened on Jun 28 by iamdamosuzuki

Ability to send Visual + Numerical view via SD out FADGI Wishlist

#809 opened on Jun 28 by iamdamosuzuki


Include Caption Data in Visual + Numerical View FADGI Wishlist

#808 opened on Jun 28 by iamdamosuzuki

Auto-test / Auto-qualify mode FADGI Wishlist

#785 opened on Feb 7 by iamdamosuzuki

Tags for tickets addressing  
wishlist updates



## Pre-Testing Survey

Please fill out the following information about digitization station you'll be using for testing.  
For the sake of consistency please use only this station for testing

morganomorel@gmail.com [Switch account](#)



Not shared

Tester Name

Your answer

Tester Email

Your answer

Tester Organization

Your answer

Tape Format

Your answer

# User Testing

Testers sent Google Form to fill for  
pre-testing and for each feature test

Test files sent to me via mediashuttle  
for further inspection

Users are testing specific versions  
deployed in homebrew

# Current Status & Challenges

Create H.264  
Access files  
concurrently with  
Preservation files

Completed,  
tested, and  
deployed



Simple Record  
Mode

Awaiting a code  
refactor  
sponsored by  
NYPL

vrecord  
.pkg installer

Currently only  
possible if x264  
library is not  
included



# NAVCC Video Lab



# Q&A *Action*

## Morgan Oscar Morel

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## Dave Rice

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## Charlie Hosale

Archivist, Library of Congress  
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