

Optical Media Mass Ingest



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Optical Media Mass Ingest

- Many copyright submissions come to the library as DVDs
- Most of these disks contain .vob files with CSS encryption
- Our challenge is to rip thousands of DVDs, accession them and preserve them in a form that can be read for many years to come.

What Do We Archive?

- The disks may have menus
- The disks may have multiple audio & video track
- To ensure that we have all the content on the disk we rip the .iso image
- This also avoids the need to do css decryption.

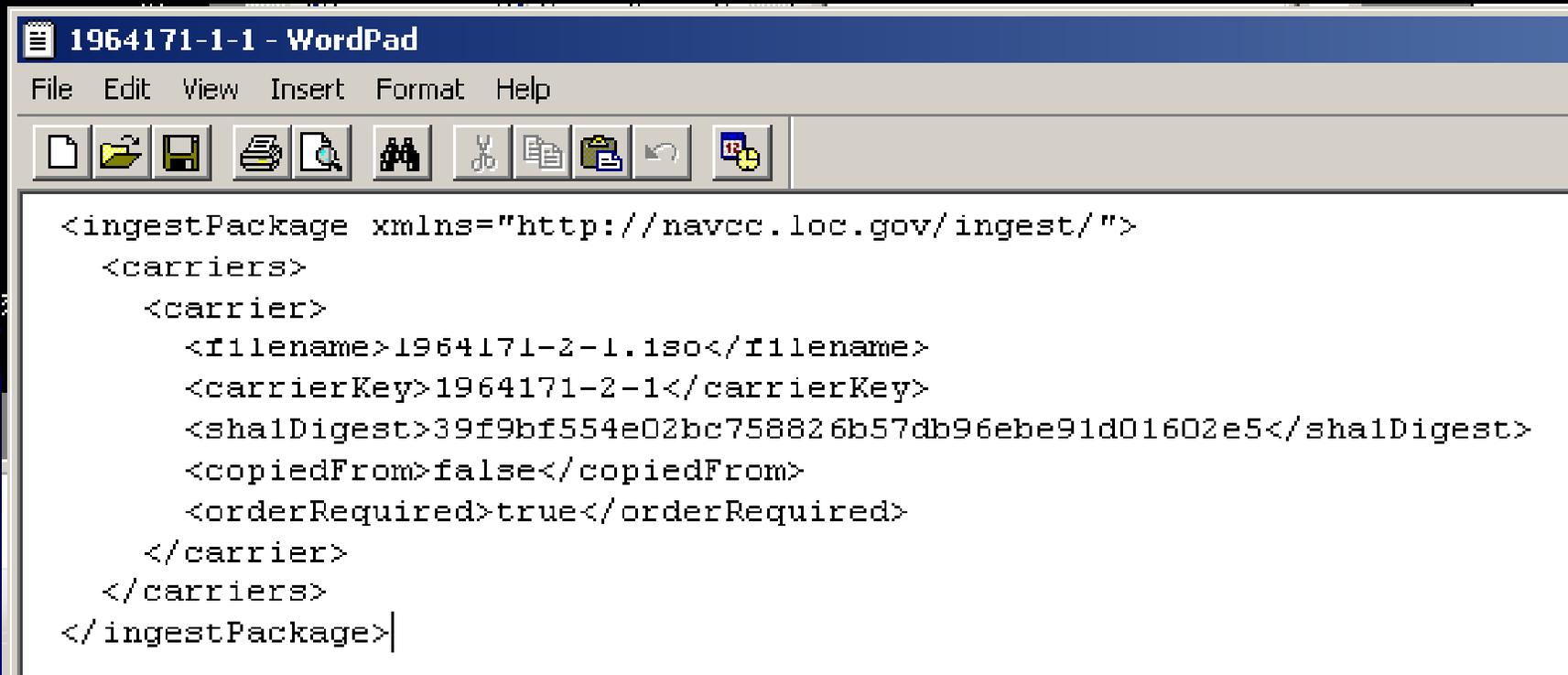
What Do We Archive?

- Listing of the ingest directory

Name ▲	Size	Type	Date Modified
 1957904-1-1.nxml	1 KB	NXML File	5/16/2013 10:34 AM
 1964171-2-1.iso	600,032 KB	ISO File	5/16/2013 9:59 AM
 1964171-1-1.nxml	1 KB	NXML File	5/16/2013 10:35 AM
 1964248-2-1.iso	2,457,504 KB	ISO File	5/16/2013 9:57 AM
 1964248-1-1.nxml	1 KB	NXML File	5/16/2013 10:48 AM
 1957903-2-1.iso	1,556,256 KB	ISO File	5/16/2013 9:52 AM
 1957903-1-1.nxml	1 KB	NXML File	5/16/2013 10:49 AM
 1957876-2-1.iso	1,810,080 KB	ISO File	5/16/2013 9:49 AM
 1957876-1-1.nxml	1 KB	NXML File	5/16/2013 10:52 AM
 1926110-2-1.iso	3,713,536 KB	ISO File	5/16/2013 9:45 AM
 1957902-2-1.iso	1,556,384 KB	ISO File	5/16/2013 9:40 AM

What Do We Archive?

- Inside the .nxml

A screenshot of a Windows WordPad application window. The title bar reads "1964171-1-1 - WordPad". The menu bar includes "File", "Edit", "View", "Insert", "Format", and "Help". The toolbar contains icons for file operations like Open, Save, Print, and Undo. The main text area displays XML code for an ingest package.

```
<ingestPackage xmlns="http://navcc.loc.gov/ingest/">
  <carriers>
    <carrier>
      <filename>1964171-2-1.iso</filename>
      <carrierKey>1964171-2-1</carrierKey>
      <sha1Digest>39f9bf554e02bc758826b57db96ebe91d01602e5</sha1Digest>
      <copiedFrom>>false</copiedFrom>
      <orderRequired>>true</orderRequired>
    </carrier>
  </carriers>
</ingestPackage>
```

How Indeed?

Edit Order 5578 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Edit Order 5578

loc.gov https://navccwebp1.loc.gov:8080/navcc/order/edit.seam?id=5578&navigatorPath=%2FROOT%2FMY_HOME%2FMY_ORDERS%2F5578

LIBRARY OF CONGRESS My Home Tasks Collection Activity Administration Welcome Jason Bt

Home > Edit Order 5578

Navigator

- My Home
 - My Orders (4)
 - 5551 5/24/13 [398-361-37] VIDEO P
 - 5578 5/27/13 [56-9-47] VIDEO P
 - 5675 6/17/13 [400-180-220] VIDEO P
 - 5676 6/17/13 [394-0-394] VIDEO P
 - My Tasks (1)
 - My Cabinets (0)

Do not pull. Discs are in Rob's office.

Enter note text in the box below and click Add Note to add another note to the order.

B I U [Rich Text Editor]

Add Note

Order Items [Displaying 1-56 of 56 order items]

Expand All | Collapse All Page Size: 100 Change

Status	Carrier	Rack No	Title	Format	Tech Code	Tasks	New Items/Duplicates
New [X]	1958041-1-1	00228481750	Whoops...I forgot to have kids : a new play by Bonnie Levinson.	Video Tape	DVD Recordable		NEW: Video: ISO Status: New \$0.00 [X]
Cancelled	1957879-1-1	00230183326	Into the wild.	Video Tape	DVD Recordable		NEW: Status: Cancelled \$0.00
Cancelled	1957879-1-3	00230183338	Into the wild.	Video Tape	DVD Recordable		NEW: Status: Cancelled \$0.00
Cancelled	1957879-1-2	0023018334A	Into the wild.	Video Tape	DVD Recordable		NEW: Status: Cancelled \$0.00
Cancelled	1054482-1-1	00246261634	Checks of broken James Infante	Video Tape	DVD Recordable		NEW: Status: Cancelled \$0.00

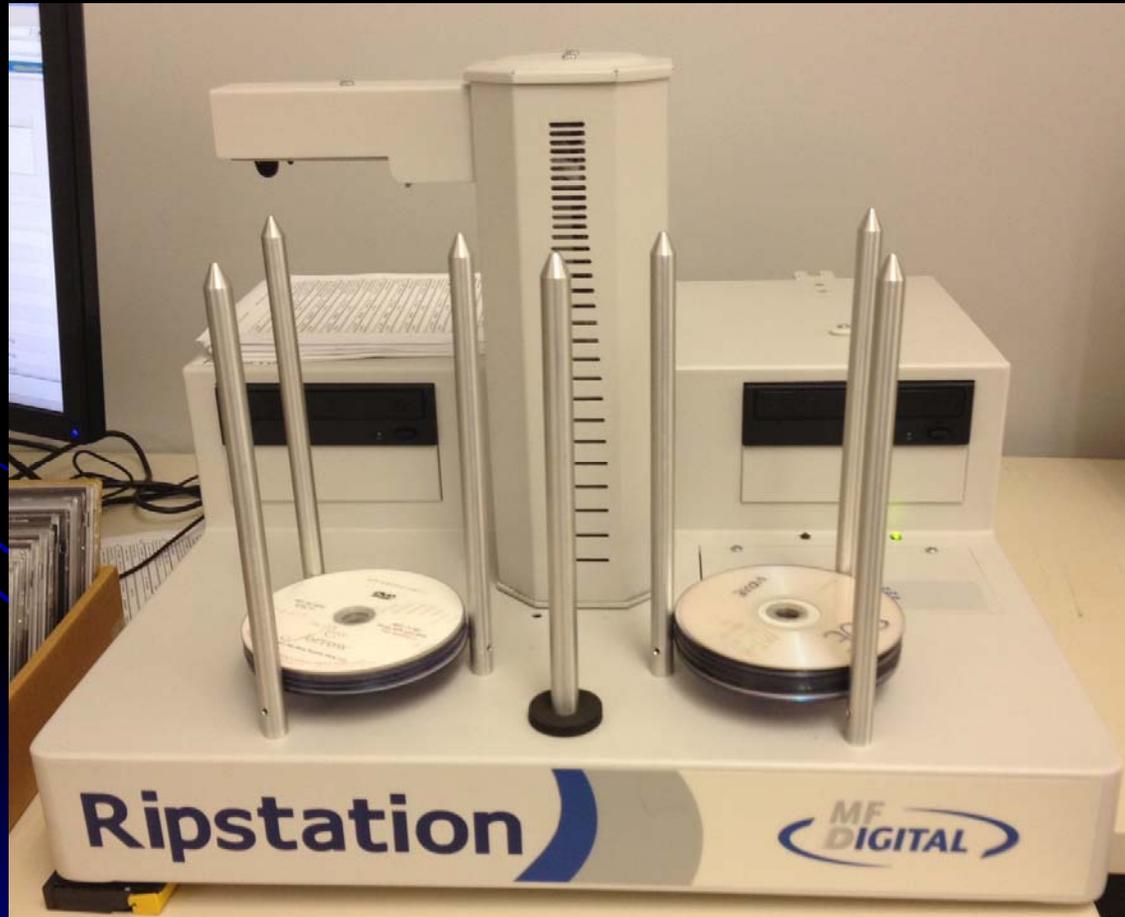
How Do We Archive?

- MF Digital Ripstation



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Ripstation MediaGrabber

1. Select a loader type.
MFD
Advanced

2. Select an output format.
ISO/MDF Image

3. Enter disc count and type.
0
File Type Filter

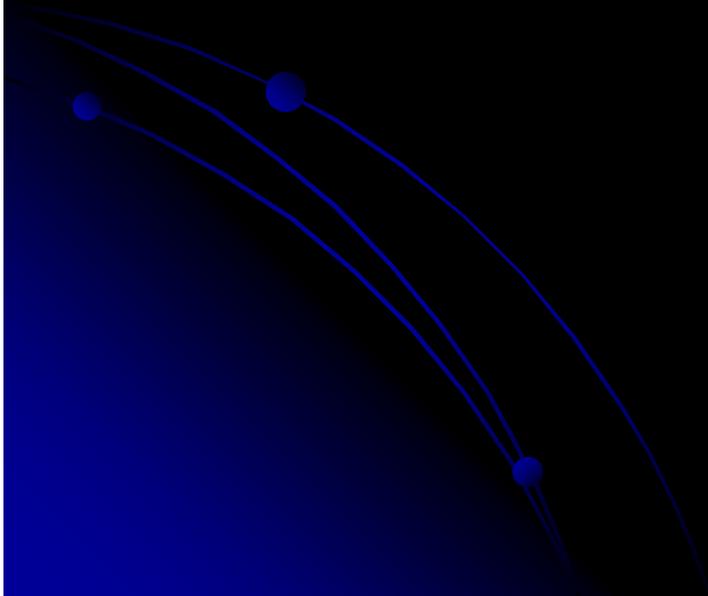
4. Choose root path and name format.
D:\%c\
%n %v\%v
Variables

Use	Drive	Progress	Skip
<input type="checkbox"/>	E:\ PIONEER BD-RW BDR-207D 1.21		
<input checked="" type="checkbox"/>	F:\ PIONEER BD-RW BDR-207D 1.21	30.48%	
<input type="checkbox"/>	H:\ DTSOFT BDROM 1.05		

11:48:03 F: Successfully ripped disc 001 FA_102711\FA_102711.
11:48:50 F: Waiting for drive to recognize next disc.
11:48:51 F: Now ripping disc 002 P_TO_F\P_TO_F (UDF+ISO 9660,44157e49).
11:51:02 F: Successfully ripped disc 002 P_TO_F\P_TO_F.
11:51:48 F: Waiting for drive to recognize next disc.
11:51:49 F: Now ripping disc 003 DVD\DVD (Unknown,19770ad3).

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- Questions?



Cost?

- <http://www.mfdigital.com/ripstation.html>

Manufacturer	Product Name		Price	
MF Digital	MF Digital CD Ripstation DP6-7602 2-Drive		Free Ground \$3,495.00	Buy Now
MF Digital	MF Digital DP6-7604 7000 Series CD RipStation		Free Ground \$3,995.00	Buy Now