GETTING BITS OFF DISKS

Using Open Source Tools to Prepare Born-Digital Materials for Long-Term Preservation and Access

To connect to the audio portion of the conference, dial **1-605-475-6150**, then enter conference code **5915426#** at the prompt. Please **mute** your phone.





ACKNOWLEDGEMENTS

 This project made possible by a grant from the U.S. Institute of Museum and Library Services



GETTING BITS OFF DISKS

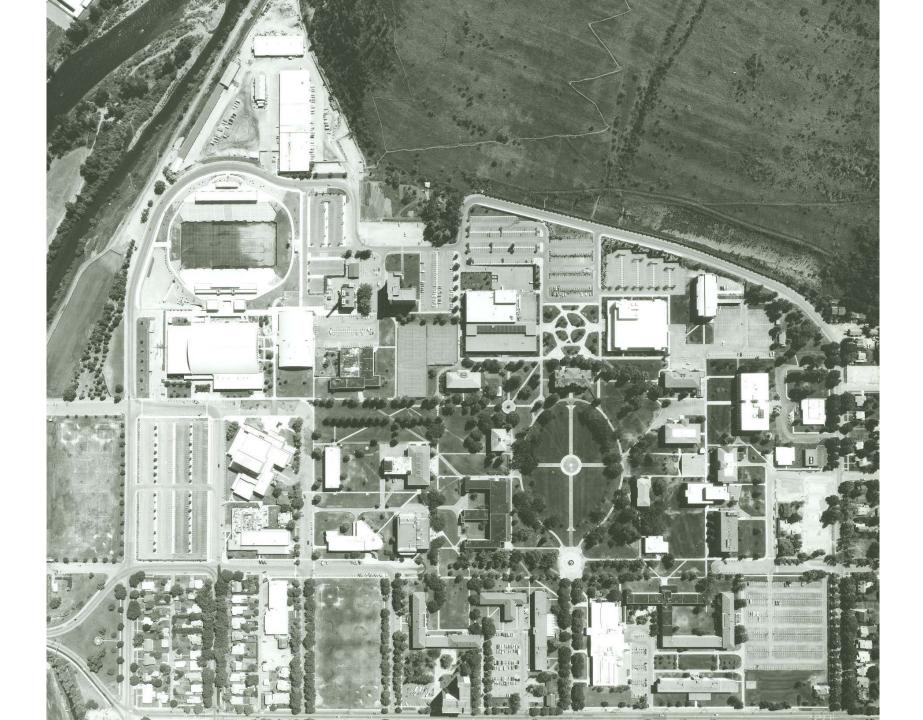
Using Open Source Tools to Prepare Born-Digital Materials for Long-Term Preservation and Access

Sam Meister Digital Archivist and Assistant Professor University of Montana



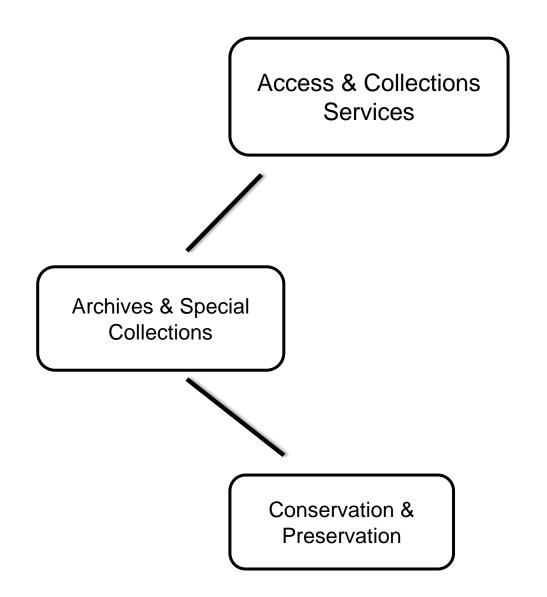
INSTITUTIONAL CONTEXT



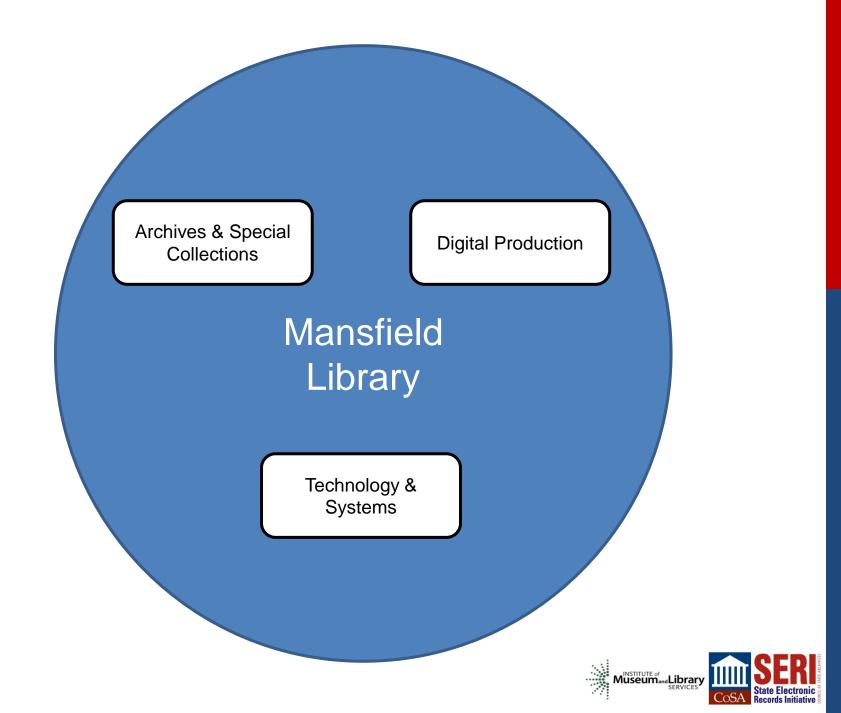


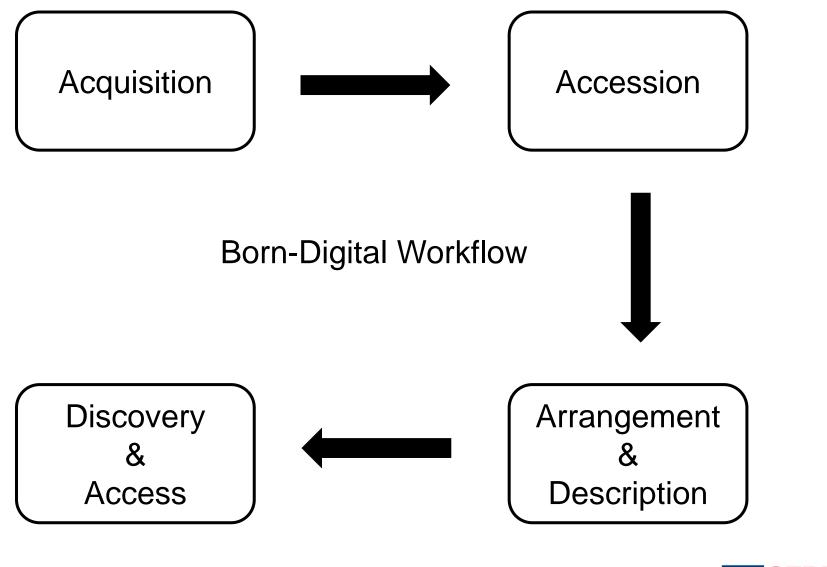




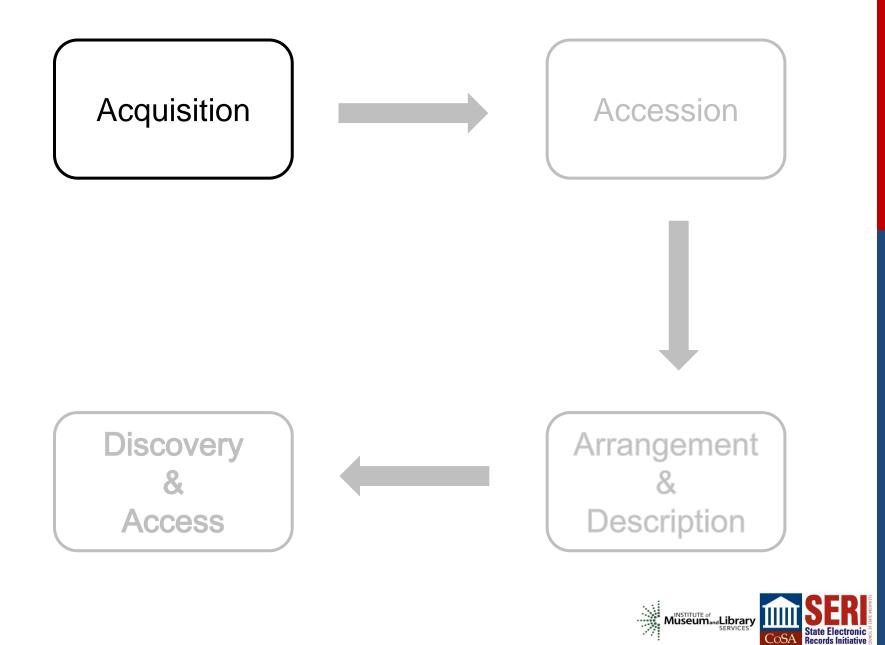




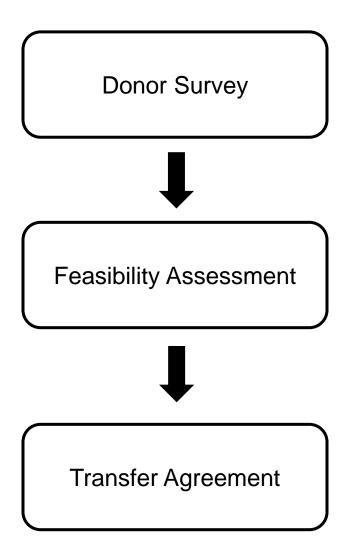








Acquisition Process





Donor Survey

Creation

Context

Organization

Privacy & Security

Storage

Technical

Transfer Options



Current

Donor Survey Sam Meister 08/16/12

Date: 09/07/12 Donor Name: Joe Crabtree – Art & Architecture Studio Location: Donor's Residence – Missoula, MT Accession #: 2012-061

Creation

Are you the only creator of your digital files? (e.g. does your collection contain email, documents, or other materials produced by others?)

Crabtree Leigland Arch. / Art & Architecture Studio / Crabtree Architecture

If not, who else is involved and what are their roles?

What are the earliest dates of file creation?

1996

What are the latest dates of file creation?

2011



Future

Drupal Web Form



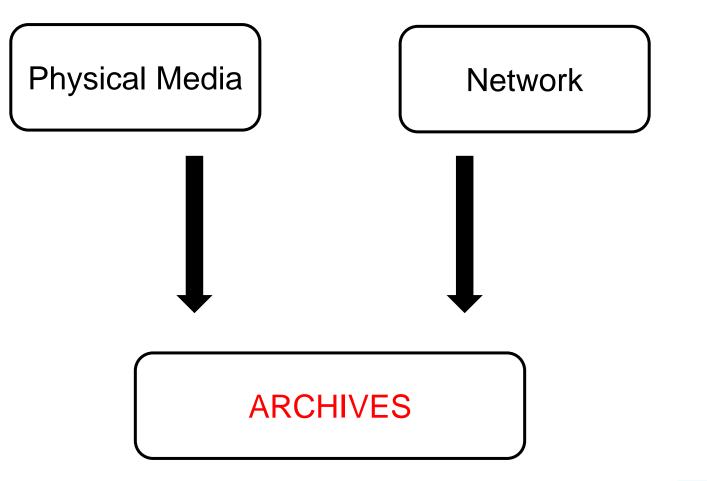


Feasibility Assessment

Do we have resources to feasibly acquire, preserve, and provide access to the digital materials?



Transfer





Current

Digital Materials Transfer

Date of Transfer:	2012-11-08
Transferred from:	Joe Crabtree
Transferred to:	Archives and Special Collections
Transferred by:	Sam Meister
Accession number:	2013-030

Information

Content

The digital materials include the following types of content:

Vector drawing files (AutoCAD) 3.5 inch floppy disks CD Roms

Technical

The technical environment used in the creation and management of digital materials includes:

Describe details of technical infrastructure including hardware, software, operating systems, etc



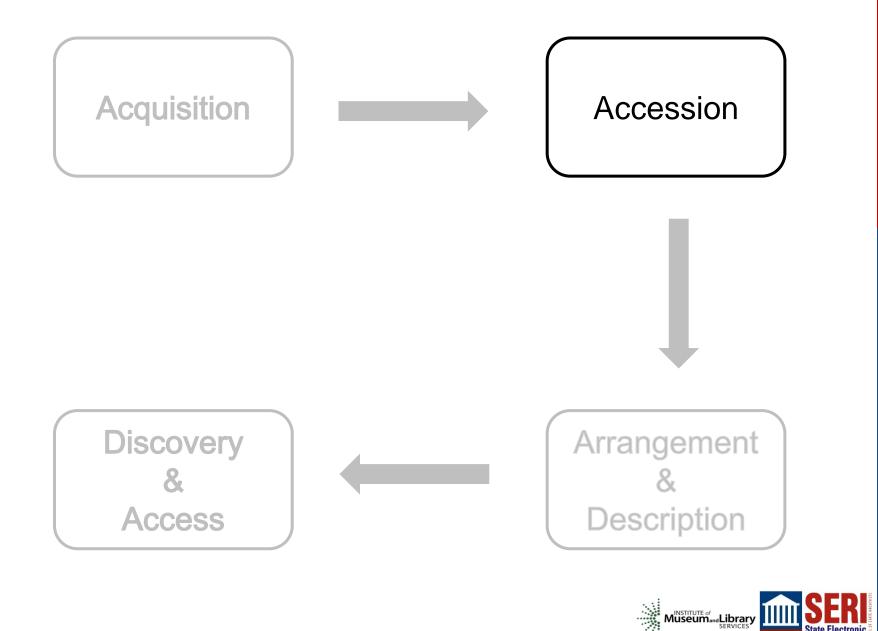
Windows XP Desktop computer

Future

Drupal Web Form

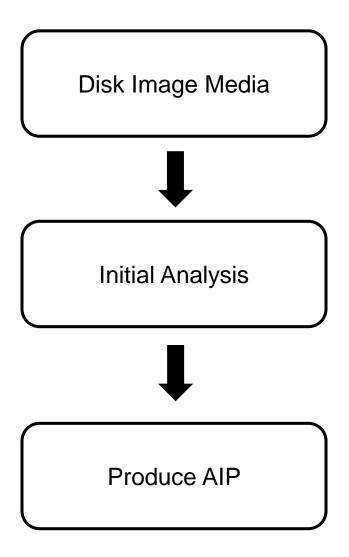






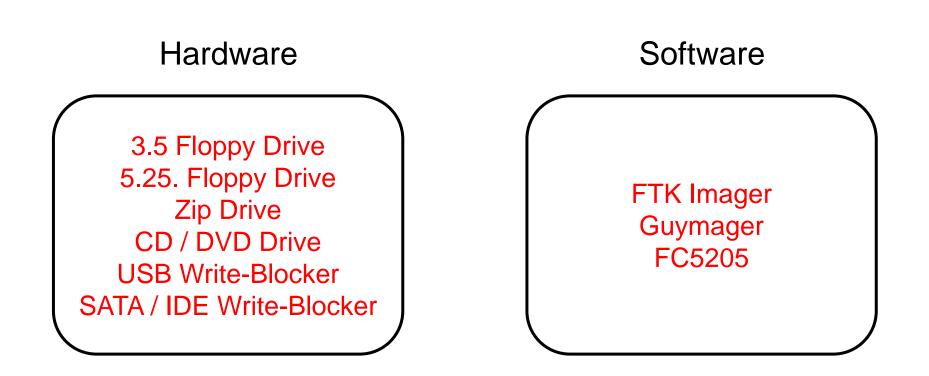
COSA State Electronic Records Initiative

Accession Process





Data Transfer





"A single file or storage device containing the complete contents and structure representing a data storage medium or device, such as a hard drive, tape drive, floppy disk, CD/DVD/BD, or USB flash drive"

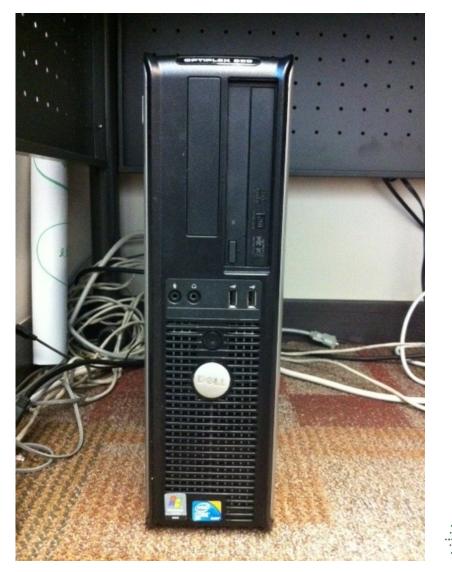


Born Digital Workstation 1.0



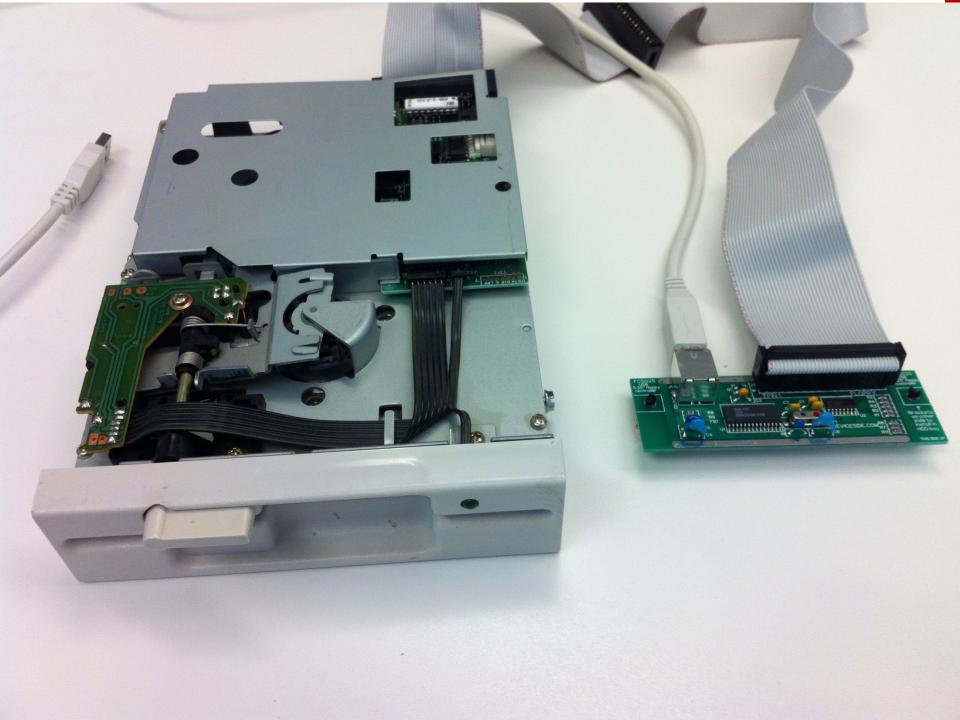


Born Digital Workstation 2.0





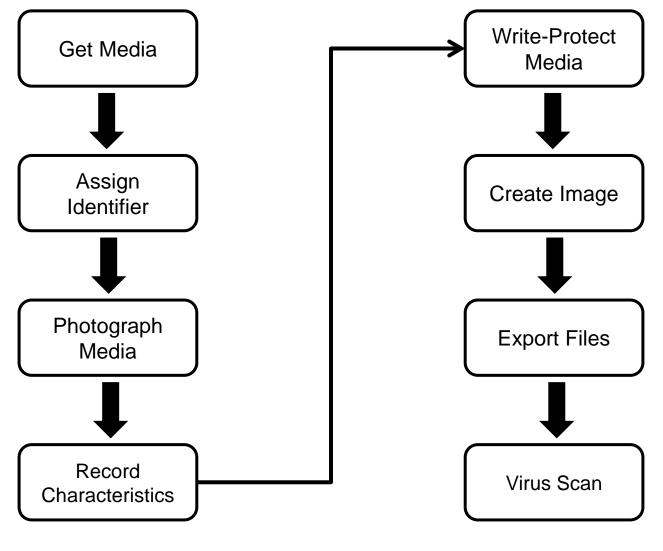






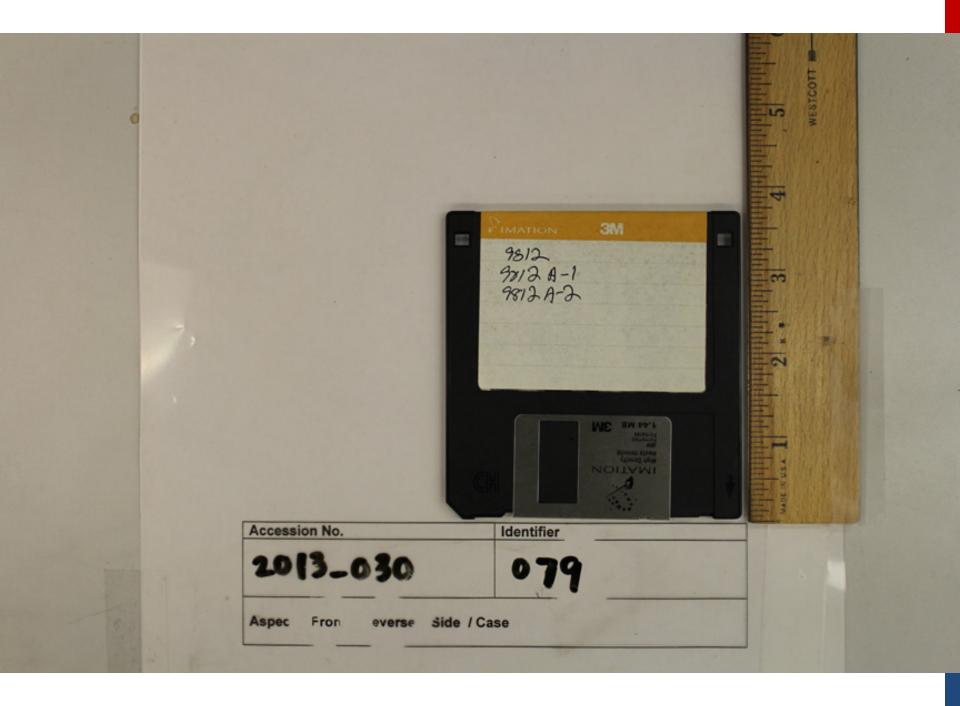
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eSATA Forensic	Bridge	り
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	Host Detect	
	Write Block	
eSATA	Activity	



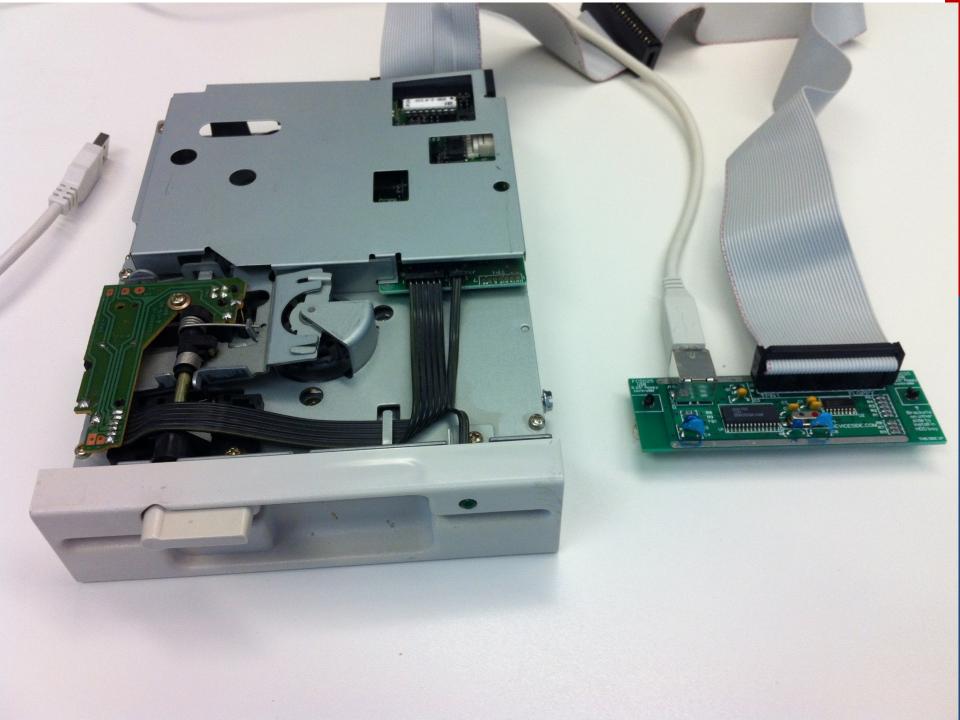


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		Identifier	2013_030_079	Date Acquired	11/8/2012	
		Accession Number	2013_030	Received From	Joe Crabtree	
		Transfer Type	Physical Media	Received By	Sam Meister	≡
		Physical Media	a	Produce AIP		
		Media Storage Location	Electronic Media Storage	Virus Scan?	Yes 🔹	
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		Age	16			
		Condition	Good	Date Transfer Storage		
		Media Label Text	9812 90812A-1 9812A-2	Network Storage Location		
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		Disk Image Date	4/19/2013			
		Disk Image Filename	2013_030_079.aff			
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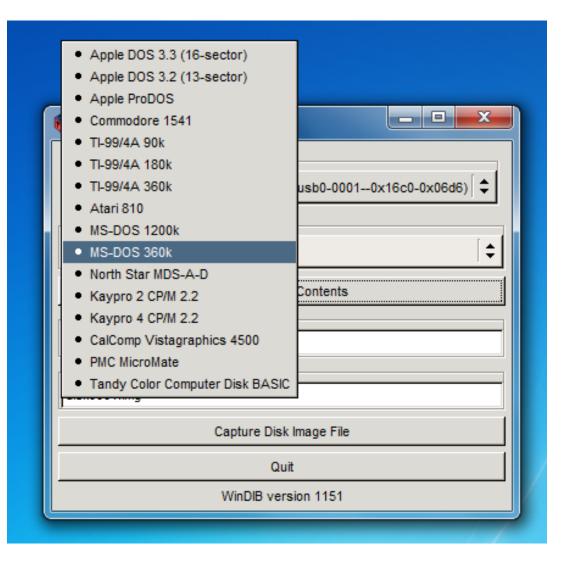
FC5205 Disk Image and Browse





Disk Image and Browse
Source Drive FC5025 Floppy Controller (bus-0/\.\libusb0-00010x16c0-0x06d6)
Disk Type
MS-DOS 360k
Browse Disk Contents
Output Image Directory
F:\borndigital\2007_038\2007_038_024
Output Image Filename 2007_038_024.img
Capture Disk Image File
Quit
WinDIB version 1151







B Disk Image and Browse	Browsing Disk Contents	- • ×
Source Drive FC5025 Floppy Controller (bus-0/\\.\libusb0-00010x16c0-0x06d6) Disk Type MS-DOS 360k Browse Disk Contents Output Image Directory	/ -rw 23808 1996-08-08 15:55 MKWD96L -rw 20992 1991-12-17 12:44 MILKPRCR -rw 6784 1997-07-29 15:57 MKWDSTA -rw 9856 1993-12-01 16:37 PGCHRON -rw 1280 1996-09-24 16:48 FECTMTSM -rw 6272 1994-12-14 16:39 NONCE.BAK	
C:\Users\borndigital\Documents Output Image Filename disk0001.img Capture Disk Image File	-rw 44672 1991-06-27 10:08 NTEBKS.BAK -rw 31488 1996-04-04 12:40 MOORCRFT -rw 4992 1997-06-12 17:47 BELOIT -rw 2176 1996-05-03 16:10 CAPA -rw 9088 1995-04-02 11:15 DEE	
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FTK Imager



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	0060 41 50 00 67 00 62 00 69-00 6F 00 0F 00 08 2E 00 AP·g·b·i·o····. 0070 77 00 70 00 64 00 00 00-FF FF 00 00 FF FF FF FF W·p·d···ÿÿ··ÿÿÿÿ	
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Issue:

Unknown / Unrecognized Filesystems

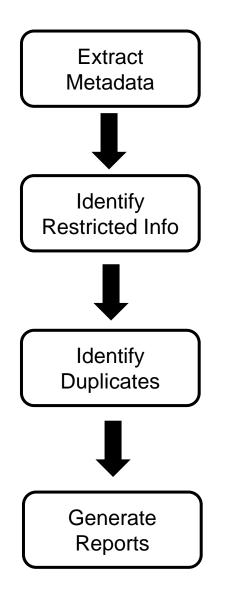






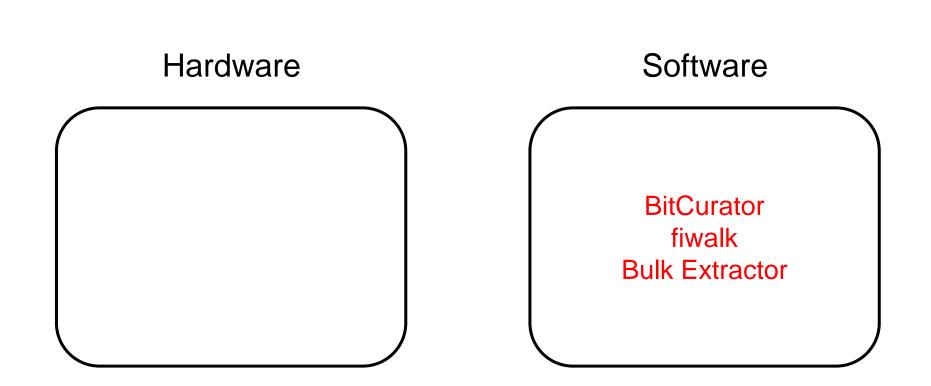


Initial Analysis





Initial Analysis







"an effort to build, test, and analyze systems and software for incorporating digital forensics methods into the workflows of a variety of collecting institutions"



BitCurator:

fiwalk



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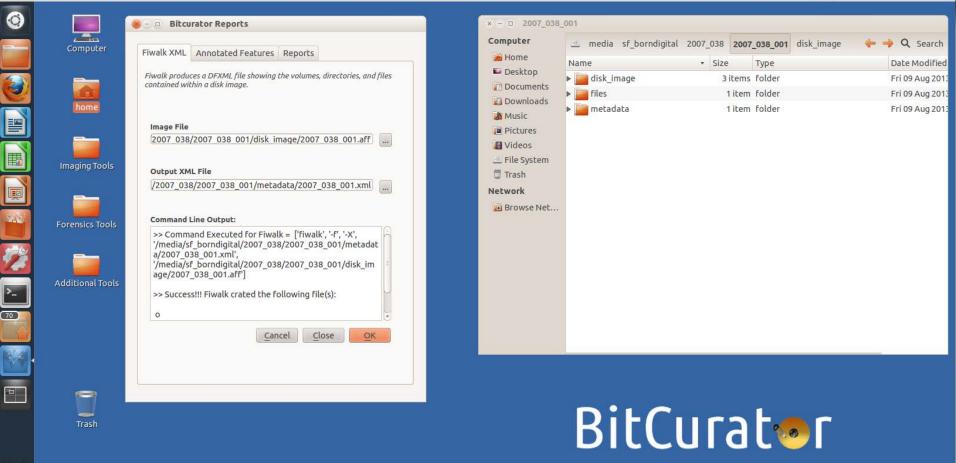
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2007_038_001.xml 🕱

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<?xml version='1.0' encoding='UTF-8'?>
<dfxml version='1.0'>
  <metadata
  xmlns='http://www.forensicswiki.org/wiki/Category:Digital_Forensics_XML'
 xmlns:xsi='http://www.w3.org/2001/XMLSchema-instance'
  xmlns:dc='http://purl.org/dc/elements/1.1/'>
    <dc:type>Disk Image</dc:type>
  </metadata>
  <creator version='1.0'>
    <program>fiwalk</program>
    <version>4.1.0</version>
    <build environment>
      <compiler>GCC 4.6</compiler>
      library name="afflib" version="3.7.1"/>
      library name="libewf" version="20130416"/>
    </build environment>
    <execution environment>
      <command line>fiwalk -f -X /media/sf_borndigital/2007_038/2007_038_001/metadata/2007_038_001.xml /media/
sf_borndigital/2007_038/2007_038_001/disk_image/2007_038_001.aff</command_line>
      <start time>2013-08-09T19:35:17Z</start time>
    </execution_environment>
  </creator>
  <source>
    <image filename>/media/sf borndigital/2007 038/2007 038 001/disk image/2007 038 001.aff</image filename>
  </source>
<!-- fs start: 0 -->
  <volume offset='0'>
    <partition offset>0</partition offset>
    <sector_size>512</sector_size>
    <block size>512</block size>
    <ftype>2</ftype>
    <ftype_str>fat12</ftype_str>
    <block count>2880</block count>
    <first block>0</first block>
    <last block>2879</last block>
    <fileobject>
      <parent object>
        <inode>2</inode>
      </parent object>
      <filename>junk holder.wpd</filename>
      <partition>1</partition>
      <id>1</id>
      <name type>r</name type>
      <filesize>2328</filesize>
      <alloc>1</alloc>
      <used>1</used>
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BitCurator:

bulk_extractor



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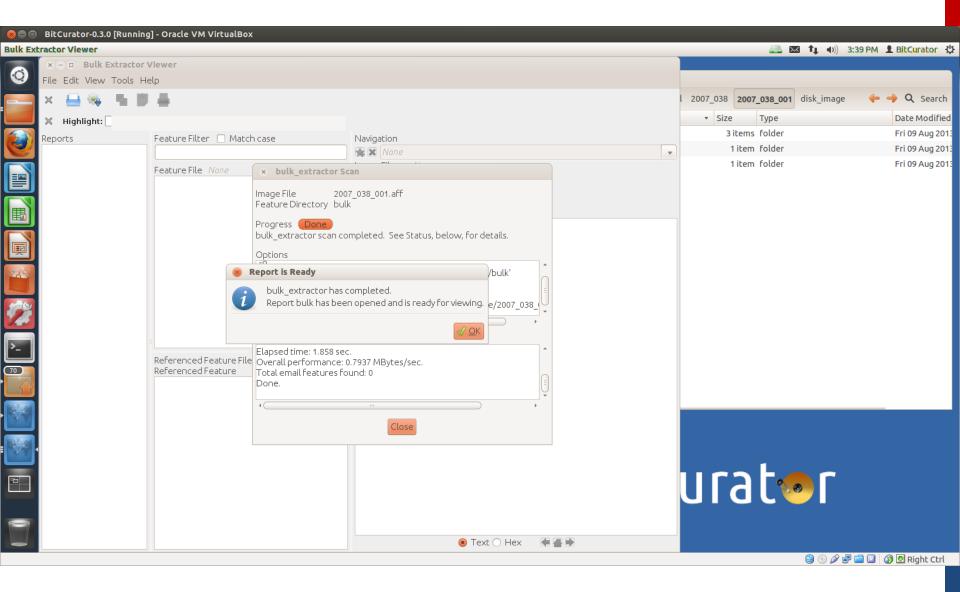


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😑 💿 🛛 BitCurator-0.3.0 [Running] - Oracle VM VirtualBox

Search for Files...

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Look in folder:	iles				
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Search results:					32 files fo
Name	Folder	Size	Туре	Date Modified	
MILKPR.rtf	files/2007_038_015/[root]	5.3 kB	RTF document	Wednesday, September 17 1997 at 4:26:04 AM	
MILKPRCR.rtf	files/2007_038_015/[root]	31.2 kB	RTF document	Wednesday, September 17 1997 at 4:27:02 AM	
PGBIO.rtf	files/2007_038_015/[root]	11.9 kB	RTF document	Wednesday, September 17 1997 at 4:42:42 AM	
PGCHRON.rtf	files/2007_038_015/[root]	14.1 kB	RTF document	Wednesday, September 17 1997 at 4:42:58 AM	
PGCHRON	files/2007_038_024/[root]	9.9 kB	unknown	Wednesday, December 1 1993 at 11:37:46 AM	
MILKPR	files/2007_038_025/[root]	2.7 kB	unknown	Tuesday, December 17 1991 at 7:42:58 AM	
PGBIO	files/2007_038_025/[root]	7.7 kB	unknown	Saturday, January 4 1997 at 12:24:42 PM	
MWPRIH95	files/2007_038_028/[root]	65.3 kB	unknown	Wednesday, October 11 1995 at 12:17:58 PM	
PGBIO	files/2007 038 028/[root]	7760	unknown	Friday, July 28 1995 at 12:34:06 PM	

BitCurat



BitCurator:

Reports



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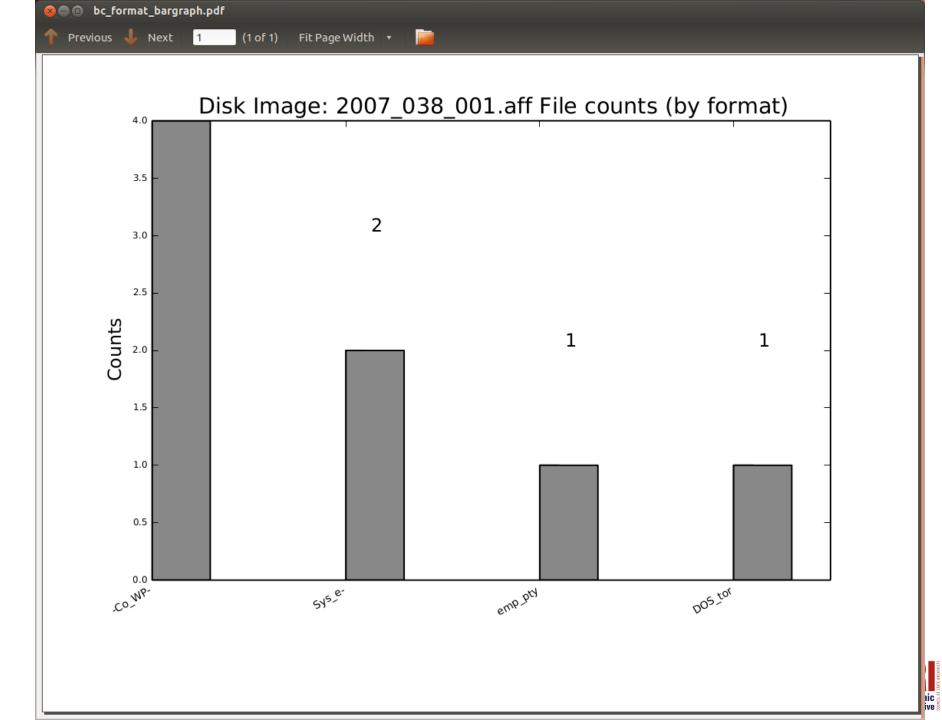
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😣 🔵 🔲 BitCurator-0.3.0 [Running] - Oracle VM VirtualBox **BitCurator Forensics GUI** 🔜 🖾 📬 🐠) 4:08 PM 💄 BitCurator 🔱 × - □ metadata 0 **Bitcurator Reports** Computer Q Search _____ media sf borndigital 2007 038 2007 038 001 metadata --Home Name Size Туре Date Modified Fiwalk XML Annotated Features Reports Desktop annotated 2 items folder Fri 09 Aug 2013 0 Produces Office Open XML and PDF reports to assist in image analysis Documents R bulk 43 items folder Fri 09 Aug 2013 0 Downloads Fiwalk XML File 7 items folder Fri 09 Aug 2013 0 reports 7_038/2007_038_001/metadata/2007_038_001.xml Music home 546 bytes CSV document Fri 09 Aug 2013 0 2007_038_001.csv Pictures 7.8 kB XML document 2007_038_001.xml Fri 09 Aug 2013 0 Annotated Feature Files Directory I Videos /media/sf borndigital/2007 038/2007 038 001/me +++ 34 bytes plain text document reports.txt Fri 09 Aug 2013 0 File System H **Output Directory For Reports:** Trash digital/2007 038/2007 038 001/metadata/reports Network Browse Net... Config File (optional): /Path/To/file +++ Forensics Tools Command Line Output: >> Using the default config file: /etc/bitcurator/bc report config.txt >> config_file: >_ >> fiwalk xmlfile: /media/sf borndigital/2007 038/2007 038 001/metada ta/2007 038 001.xml >> annotated Directory: Close Cancel OK 'n -BitCurator

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Report: File System Statistics and Files

BitCurator

Technical Metadata

Found 1 Partition in this disk

Disk Image: 2007_038_001.aff

Feature	Value
Partition	1
PARTITION OFFSET	0
BLOCK COUNT	2880
FIRST BLOCK	0
LAST BLOCK	2879
BLOCK SIZE	2880
FTYPE	2
FTYPE STR	fat12
Number of Files	4
Total Directories	1
Total Deleted Files	0
Total Unused Files	0
Files with Nlinks > 1	0
Empty Files	1
Big Files(> 1 MB)	0



Report: File System Statistics and Files



File Format Table

Disk Image: 2007_038_001.aff

Format	Short Form	Files
DOS floppy 1440k, x86 hard disk boot sector	DOS_tor	1
empty	emp_pty	1
SysEx File -	Sys_e-	2
(Corel/WP)	-Co_WP-	4



8 🖲 🗊 2007_038_0	001		
Devices	🔹 🔲 New Volume 🛛 borndigital 2007_038	2007_038_001 objects disk_image	🔶 🄶 🔍 Search
System Rese	Name	▼ Size Type	Date Modified
40 GB Filesy	🔻 📄 logs	0 items folder	Mon 12 Aug 2013 01:37:14
🖾 New Vol 🔺	(Empty)		
Computer	🔻 📄 metadata	8 items folder	Tue 17 Dec 2013 02:52:41 P
📠 Home	annotated	2 items folder	Fri 09 Aug 2013 01:44:05 Pl
Desktop	▶ 📄 bulk	43 items folder	Tue 17 Dec 2013 02:36:35 P
Documents	▶ 📄 reports	7 items folder	Fri 10 Jan 2014 10:52:48 AM
Downloads	2007_038_001.csv	546 bytes CSV document	Fri 09 Aug 2013 11:58:13 A
Music	🔗 2007_038_001.xml	7.8 kB XML document	Fri 09 Aug 2013 01:35:18 Pi
Pictures	alert_list	6 bytes plain text document	Tue 17 Dec 2013 02:37:28 F
Videos	alert_list.txt	6 bytes plain text document	Tue 17 Dec 2013 02:39:19 F
🖾 File System 🗒 Trash	reports.txt	34 bytes plain text document	Fri 09 Aug 2013 02:07:55 P
	🔻 📄 objects	1 item folder	Thu 05 Dec 2013 02:06:57 F
Network	▼ 📄 disk_image	3 items folder	Fri 09 Aug 2013 01:29:21 P
	2007_038_001.aff.csv	1.5 kB CSV document	Fri 09 Aug 2013 11:13:40 A
	2007_038_001.aff.txt	1.2 kB plain text document	Fri 09 Aug 2013 11:13:40 A
	2007_038_001.aff	1.5 MB program	Fri 09 Aug 2013 11:13:40 A

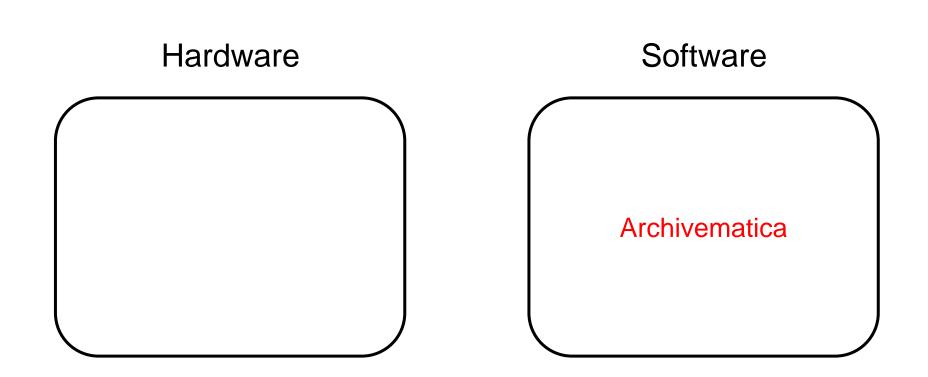




AIP = Archival Information Package



Produce AIP





@rchivematica.

"a free and open-source digital preservation system that is designed to maintain standards-based, long-term access to collections of digital objects"



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🧿 rchivematica. 🗖	anste Ingest Archival storage Preservation planning	Access Administration	borndigital -		Connected •
Standard -	/home/borndigital/shareddisk/bo	n - Browse Start tr	anster		
Type Transfer name	Accession no.				
Transfer	UUID	Transfer start time			
² 2007_038_001	2dbbc8f8-c018-4c9d-b03e-cfbd4c85ab31	2013-11-01 12:27	🔁 👄		
 Micro-service: Characterize and extract meta 	adata				
Job: Characterize and extract metadata		Executing command(s)			
Micro-service: Clean up names					
Job: Sanitize Transfer name		Completed successfully	\$\$		
Job: Sanitize object's file and directory nar	nes	Completed successfully	<i>.</i>		
Micro-service: Scan for viruses					
Job: Scan for viruses		Completed successfully			
 Micro-service: Extract packages 					
Micro-service: Quarantine					
Micro-service: Generate METS.xml docume	nt				
Micro-service: Verify transfer checksums					
 Micro-service: Assign file UUIDs and checks 					
Micro-service: Include default Transfer proce	essingMCP.xml				
Micro-service: Rename with transfer UUID					
Micro-service: Verify transfer compliance Micro-service: Approve transfer					
Job: Approve standard transfer		Completed successfully	*		
Job. Approve standard transfer		Completed successfully	383		
2004_010_001	33f13af2-4370-45c2-9cdb-2a418ab8847d	2013-09-05 13:08			
 Micro-service: Create SIP from Transfer 					
 Micro-service: Complete transfer 					
Micro-service: Characterize and extract meta	adata				
 Micro-service: Clean up names 					
 Micro-service: Scan for viruses 					
 Micro-service: Extract packages 					
 Micro-service: Quarantine 					
Micro-service: Generate METS.xml document	nt				
 Micro-service: Verify transfer checksums 					
 Micro-service: Assign file UUIDs and checks 	sums				
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Micro-service: Rename with transfer UUID					
Micro-service: Verify transfer compliance					-
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i chivematica.	ansier ingest. Archival storage Preservation planning	Access Administration	borndigital		Connected
Standard -	/home/borndigital/shareddisk/bo	n - Browse Start tr	ansfer		
rpe Transfer name	Accession no.				
ransfer	UUID	Transfer start time			
2007_038_001	2dbbc8f8-c018-4c9d-b03e-cfbd4c85ab31				
Micro-service: Create SIP from Transfer		2010-11-01 12:27			
Job: Create SIP(s) [?]		Awaiting decision	Actions 🚽		
Job: Load options to create SIPs		Completed successfully			
Job: Check transfer directory for objects		Completed successfully			
Micro-service: Complete transfer		completed successfully	202		
Micro-service: Characterize and extract meta	adata				
Job: Load labels from metadata/file_labels.	.csv	Completed successfully			
Job: Identify Files ByExtension		Completed successfully			
Job: Characterize and extract metadata		Completed successfully	\$		
Micro-service: Clean up names			1 322		
Job: Sanitize Transfer name		Completed successfully	() ()		
Job: Sanitize object's file and directory nar	mes	Completed successfully	\$		
Micro-service: Scan for viruses					
Job: Scan for viruses		Completed successfully			
Micro-service: Extract packages					
Micro-service: Quarantine					
Micro-service: Generate METS.xml docume	nt				
Micro-service: Verify transfer checksums					
Micro-service: Assign file UUIDs and checks Micro-service: Include default Transfer proce					
Micro-service: Rename with transfer UUID	ssangwor xnn				
Micro-service: Verify transfer compliance					
Micro-service: Approve transfer					
Job: Approve standard transfer		Completed successfully			
2004_010_001	33f13af2-4370-45c2-9cdb-2a418ab8847d	2013-09-05 13:08			
Micro-service: Create SIP from Transfer					
Micro-service: Complete transfer					
Micro-service: Characterize and extract meta	adata				
Micro-service: Clean up names					
Micro-service: Scan for viruses					
Micro-service: Extract packages					

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		1			
Any	Keyword	Search transfer backlog	Show files?		
Add New					
	1005	The second s			
Submission Information Package	UUID	Ingest start time			
og 2007_038_001	e2c46162-e037-4ff4-ab83-2e7c6e675ace	2013-11-01 12:31			
 Micro-service: Normalize 			1 1122		
Job: Select format identification tool		Awaiting decision	Actions		
Job: Set resume link after tool selected.		Completed successfully	- (¢		
Job: Find options to normalize as		Completed successfully	<i></i>		
Job: Move to workFlowDecisions-createDip dire	ectory	Completed successfully			
Job: Grant normalization options for no pre-exis	sting DIP	Completed successfully	- (†		
Job: Set remove preservation and access norm	nalized files to renormalize link.	Completed successfully	- (g):		
Job: Check for Access directory		Completed successfully			
Job: Check for Service directory		Completed successfully			
Job: Identify manually normalized files		Completed successfully			
Micro-service: Clean up names					
 Micro-service: Remove cache files 					
 Micro-service: Include default SIP processingMC 					
 Micro-service: Rename SIP directory with SIP U 	UID				
Micro-service: Verify transfer compliance					
Micro-service: Verify SIP compliance					
Micro-service: Approve SIP creation					
4 2004_010_030	13dfb75e-3468-4b84-be83-1db2a8e2d58b	2013-09-06 16:41	0		
Micro-service: Upload DIP					
Job: Upload DIP		Awaiting decision	Actions 🔸		
Micro-service: Store AIP					
Micro-service: Prepare AIP					
 Micro-service: Prepare DIP 					
Micro-service: Process metadata directory					
 Micro-service: Process submission documentation 	on				
 Micro-service: Normalize 					
 Micro-service: Clean up names 					
Micro-service: Remove cache files					
 Micro-service: Include default SIP processingMC 					
 Micro-service: Rename SIP directory with SIP U 	UID				
Micro-service: Verify transfer compliance					
 Micro-service: Verify SIP compliance 					

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Completed successfully

Job: Approve normalization [?]

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erchivematica	Transfer ³ Ingest	Archival storage	Preservation planning	Access	Administration	borndigital -		
Ar	iy	- Keyword		- Searc	h archival storage	Show files?		

Add New

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Browse archival storage Total size: 28.80 MB Total files: 2376 indexed

AIP	Size *	UUID a	Date stored
2004_010_001	0.70 MB	74bb5cd2-1d70-44ac-8ba1-33b520c16083	2013-09-05 13:24
2004_010_003	0.74 MB	7c84cf12-1094-4e73-97fe-e8993a976664	2013-09-05 14:48
2007_038_001	0.40 MB	f90358a0-7102-41af-9d91-5ea3b79744b6	2013-05-29 16:16
2007_038_002	0.30 MB	bac7b381-008d-44df-91b4-ff424ec55373	2013-05-30 11:37
2007_038_004	4.10 MB	5250ebb5-5832-4f6d-8afc-33743416186b	2013-06-17 15:44
2007_038_005	5.20 MB	253d5d3f-986c-471e-a3da-f42130ba071e	2013-06-19 10:47
2007_038_006	4.20 MB	092d9b83-c022-4e63-bfb1-180aef16710d	2013-06-19 11:28
2007_038_007	4.31 MB	706d004d-8370-445a-b458-59d15b25bf3d	2013-06-19 11:41
2007_038_009	4.34 MB	754f7859-fc22-4447-8ee6-206830ac7d00	2013-06-19 12:38
2007_038_015	4.51 MB	7f85597b-1b6f-46b0-941e-f8af198c1967	2013-06-19 14:50

Showing 1-10 of 35

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🔄 🗑 file:///home/borndigital/.cache/.fr-EmMcTq/2007_038_001-e2c46162-e037-4ff4-ab83-2e7c6e675ace/data/METS.e2c46162-e037-4ff4-ab83-2e7c6 🗇 📽 Google 🔍 🕹
This XML file does not appear to have any style information associated with it. The document tree is shown below.
- <mets xsi:schemalocation="http://www.loc.gov/METS/ http://www.loc.gov/standards/mets/version18/mets.xsd"></mets>
<metshdr createdate="2013-11-01T18:36:46"></metshdr> - <amdsec id="amdSec 1"></amdsec>
-< amdSec ID = amdSec I > -< techMD ID = "techMD 1" >
- <mdwrap mdtype="PREMIS:OBJECT"> -<xmldata></xmldata></mdwrap>
- <object version="2.2" xsi:schemalocation="info:lc/xmlns/premis-v2 http://www.loc.gov/standards/premis/v2/premis-v2-2.xsd" xsi:type="file"></object>
- <object http:="" prems="" prems-v2-2.xsd="" standards="" v2="" version="2.2" www.ioc.gov="" xsi:schemalocation="mo:r/xmms/prems-v2" xsi:type="me"> -<objectidentifier></objectidentifier></object>
<objectidentifiertype>UUID</objectidentifiertype>
<objectidentifiervalue>86660b58-459f-47e5-a024-f06bf2d8ed82</objectidentifiervalue>
- <objectcharacteristics></objectcharacteristics>
<compositionlevel>0</compositionlevel>
- <fixity></fixity>
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- <messagedigest></messagedigest>
db800ae1daeff77c250516f9c72ff4a501be1c6bb59ddaa1f7f3b3e8fdf821da
<size>1528</size>
- <format></format>
- <formatdesignation></formatdesignation>
<formatname>Comma Separated Values</formatname>
<formatversion></formatversion>
- <formatregistry></formatregistry>
<formatregistryname>PRONOM</formatregistryname>
<formatregistrykey>x-fmt/18</formatregistrykey>
- <objectcharacteristicsextension></objectcharacteristicsextension>
- <fits <="" th="" version="0.6.1" xsi:schemalocation="http://hul.harvard.edu/ois/xml/ns/fits/fits_output http://hul.harvard.edu/ois/xml/xsd/fits/fits_output.xsd"></fits>
timestamp="11/1/13 12:29 PM">
- <identification status="CONFLICT"></identification>
- <identity format="Plain text" mimetype="text/plain" toolname="FITS" toolversion="0.6.1"></identity>
<tool toolname="file utility" toolversion="5.09"></tool>
- <identity format="MPEG 1/2 Audio Layer 3" mimetype="audio/mpeg" toolname="FITS" toolversion="0.6.1"></identity>
<tool toolname="Exiftool" toolversion="7.74"></tool>
- <identity format="Comma Separated Values" mimetype="text/csv" toolname="FITS" toolversion="0.6.1"></identity>
<tool toolname="Droid" toolversion="3.0"></tool>

Produce AIP

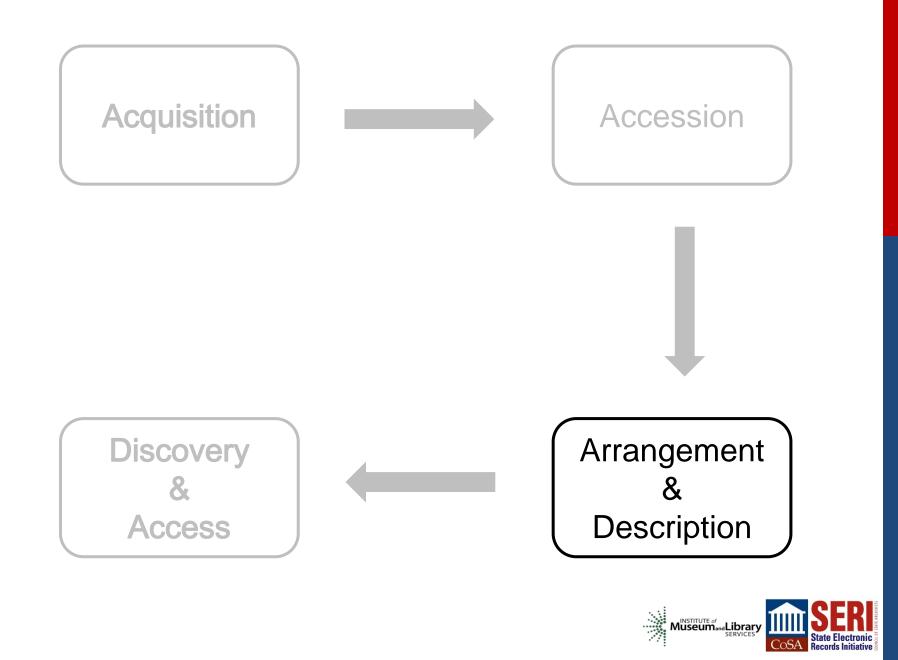
Archivematica

Current

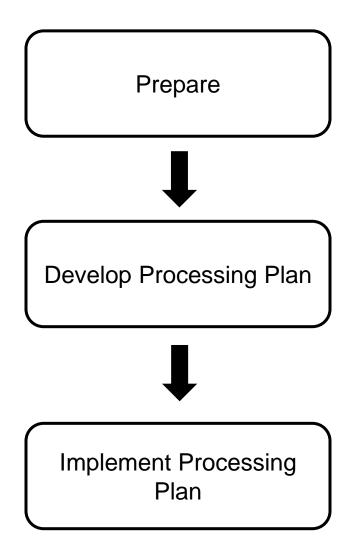
Future

Using version 0.10 on dedicated workstation (testing as virtual server) Install version 1.0 on server with multiple client nodes (workstations)





<u>A & D</u>

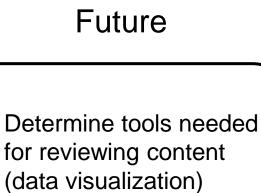




<u>A & D</u>

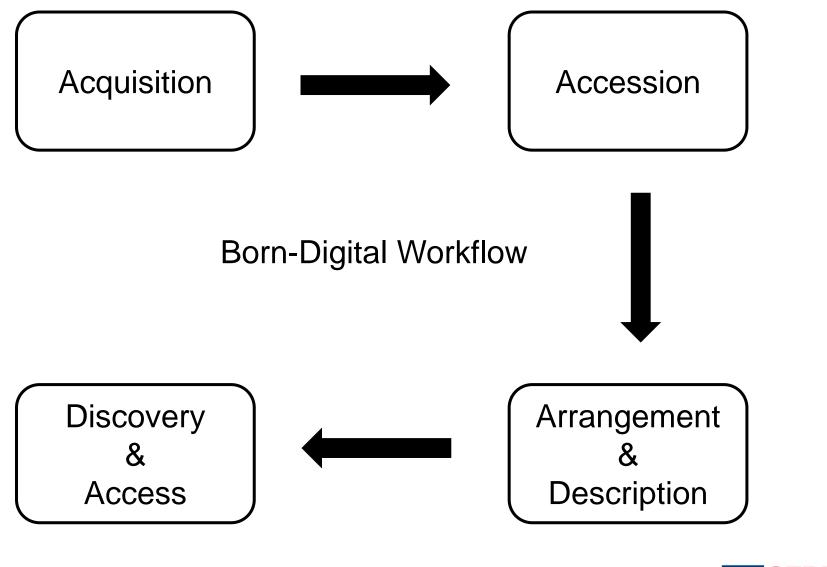
Current

 Integrate Born Digital materials into existing A&D process / tools (mix of Excel, Word, XMetal XML editor)



 Integrate Born Digital materials into collection management system







Lessons Learned

- Embrace iterative approach (use what you have and get what you need when you need it)
- Capture as much metadata as possible (descriptive, structural, administrative)
- Start with workflow requirements (what needs to be done) then test tools (what things will get it done)
- Build flexibility into system (may not always be ideal scenarios)



Open Source - Issues

- May require specific IT environment (Linux)
- Tools likely to change quickly
- User interfaces / experience may be simple
- Will need ongoing support from IT / Systems staff



Open Source - Benefits

- Limited initial resources needed to install and test
- Provides opportunity to engage systems / IT in new areas
- Designed and developed in collaboration with archival community
- Direct communication channels to contribute to / modify development roadmap
- Quickly build initial standards-compliant workflow



Resources

FC5205 Disk Image http://www.deviceside.com/fc5025.html

> Kryoflux http://www.kryoflux.com/

BitCurator http://www.bitcurator.net/

Archivematica

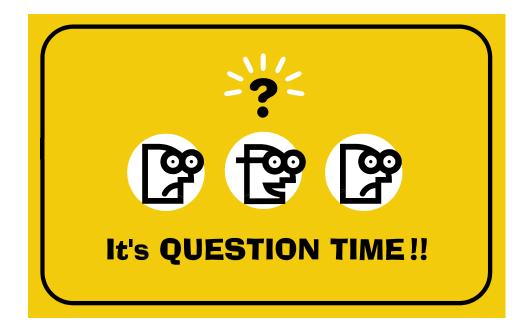
https://www.archivematica.org/wiki/Main_Page



Thanks!

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WRAP-UP

- Post-webinar survey in follow-up email
- SERI Educational Webinars every second Tuesday
- Webinar schedule will be posted soon
- All webinar slides available from the SERI webinar page: <u>http://www.statearchivists.org/seri/STEP/SERI_Educational_Webinars.htm</u>