

CNI Project Briefing Series- May 2024

Getting There from Here

a Path to Preserve Digital Collections

Clinton Graham

Systems Development Lead

Kari May

Digital Archives
& Preservation Librarian

CNI Project Briefing Series- May 2024



Clinton Graham
Systems Development Lead



Kari May
Digital Archives
& Preservation Librarian

Then & Now

- June of 2020: began full digital preservation for archival data.
- Desire to centralize the digital assets it stewards across diverse repositories

- March 2023: Moved from multitenancy subscription to private cloud
 - Opened up possibilities for centralizing assets

1st step on our path

Exporting Archival Quality Assets from Islandora

+

Customized Ingest into Preservica

ULS Digital Preservation Standards- Arrangement

- Digital Archives designed as storage location
- Arrangement reflects ArchiveSpace finding aid
- All processing completed manually

Marie Torre Broadcast Archive	Collection			AIS-2021-09
▼ Marie Torre, 1962-1995	Series			I.
▼ KDKA, 1962-1995	Sub-Series			1
KDKA- Pittsburgh 2Day, 1985-07-25	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- Pittsburgh 2Day: CBS Interviews, Part One & Two, October 15, 1...	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- KDKA Noon News, Marie's Wedding Announcement, February 6, ...	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- KDKA Noon News excerpts, Marie Torre Show excerpts, ca. 1975...	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- Pittsburgh 2Day, July 23, 1985	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA 50th Anniversary Special, October 1, 1999	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- Transcript Marie Torre Int with Hubert H Humphrey, September 14...	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- Pittsburgh 2 Day CBS Interviews- Diane Sawyer, 1980	Item	Moving Images	Box: Unknown, item: 202109.M...	
KDKA- Pittsburgh 2 Day CBS Interviews-Morton Dean, 1980	Item	Moving Images	Box: Unknown, item: 202109.M...	

Basic Information >

Languages >

Dates >

Extents >

Finding Aid Data >

Notes >

Edit

Add Event ▾

Publish All

Unpublish All

Export ▾

Merge ▾

More ▾

Delete

Marie Torre Broadcast Archive

Resource

Basic Information

Ingest Processing: Accelerated Success

- Preservica value-add service for large/complex work
- Can we build a open tool?
 - BagIt to OPEX/PAX
- Help the client "do things", not "make tools"

Ingest Processing: Accelerated Success

- Will do anything, but won't do *that* (56+TB over 260+ collections)
 - (That's about a year of part-time work)
- Preservica provided the tool for our in-house use
- **Lesson Learned:**
 - The answer is always "I don't know"
 - Configuration over code

Ingest Processing: Accelerated Success

- High touch export and babysitting
 - Coordinate with digital collections specialists
 - Manual export execution and error review
 - Manual transformation execution and error review
- Rate throttling: 500 GB / ingest, 750 GB / day.
 - But Preservica handles this for us (mostly)!

Islandora Collections- Post-Ingest Processing

- Identify archival collection represented by group
 - Assets arrive showing Islandora collection identification number
 - Arrchival Collection Number may be in metadata
- Not all Islandora collections come from archival collections
- Some Islandora collections contain multiple archival collections
 - Separate collections if multiple in group

Root > IslandoraIngest >

- Sync Tree
- ▶ AIS200704_JPHOH
 - ▶ AIS200902_Pttbgh_Speech_Society_Proj
 - ▶ AIS201301_JasonAltmireCongPapers
 - ▶ AIS201509_GarnerErroll
 - ▶ chancelloroutbox
 - ▶ CLIR_Grant_OralHistories
 - ▶ IslandoraIngests
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	Audubon_BirdsOfAmer_UPitt	Audubon's Birds of America at the University of Pittsburgh		Folder
	collection.12			Folder
	collection.100			Folder
	collection.106			Folder
	collection.110	NCJW-compare to items already ingested/combine?		Folder
	CTC196601_CurtisTheatreColl	Ford E. and Harriet R. Curtis Theatre Collection of Pittsburgh Theatre Programs	Ford E. and Harriet R. Curtis Theatre Collection of Pittsburgh Theatre Programs	Folder
	DAR192514_ChrisGistJournals	Christopher Gist's Journals by William M. Darlington		Folder

Filter 1 of 1 1-7 of 7



Title:
Description:
Reference:
Type:
Code:



Properties History XML Actions

Browse

Dublin Core Schema

Title	
Title	Ford E. and Harriet R. Curtis Theatre Collection of Pittsburgh Theatre Programs
Creator	
Creator	Curtis, Ford E.
Creator	Curtis, Harriet R.
Subject	
Subject	Performing Arts, Pittsburgh
Subject	Theater Programs
Subject	Pittsburgh Public Theater
Subject	
Subject	
Description	
Description	Digitized materials from the Ford E. and Harriet R. Curtis Theatre Collection of Pittsburgh Theatre Programs transferred from Islandora by ULS Systems Development. (Islandora collection.10)
Publisher	
Publisher	
Contributor	
Contributor	
Date	
Date	1840-present
Type	
Type	
Format	
Format	
Identifier	
Identifier	TAG
Source	
Source	
Language	
Language	eng
Relation	
Relation	
Coverage	
Coverage	
Rights	
Rights	

Edit

Groups with a Finding Aid

- Create DC tag(s)
- Define naming stem
- Bulk update
- Review to ensure completeness
- File in final location

Darlington Family Papers	Collection	DAR-1925-01
▼ James O'Hara Papers, 1777-1880	Series	I.
▼ Personal and Business Papers	Sub-Series	1.
James O'Hara to Devereaux Smith, April 8, 1777	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
James O'Hara to Mary Carson O'Hara, October 3, 1794	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
Diary (typed transcript), 1795-1804	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
Official Land Office record, October 17, 1785	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
Report on transportation, southwest branch of the Miami River, October 2...	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
Receipt of Business Exchange, August 26, 1799	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...
Lease agreement between James O'Hara and J. Benny, March 1805	File	Mixed Materials, Digital Object Box: 1 [31735077158628], Fold...

Basic Information >

Languages >

Dates >

Extents >

Finding Aid Data >

Related Accessions >

Agent Links >

Subjects >

Edit

Add Event ▾

Publish All

Unpublish All

Export ▾

Merge ▾

More ▾

Delete

Darlington Family Papers Resource

Basic Information

Title Darlington Family Papers

Identifier DAR 1925 01

Sync Tree

- ▶ AIS200704_JPHOH
- ▶ AIS200902_Pittbgh_Speech_Society_Proj
- ▶ AIS201301_JasonAltmireCongPapers
- ▶ AIS201509_GarnerErroll
- ▶ chancelloroutbox
- ▶ CLIR_Grant_OralHistories
- ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.12
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
- ▶ Miriam
- ▶ Nick
- ▶ officeofthechancellor
- ▶ Olivia
- ▶ PST_Ingests
- ▶ REQUEST_ReadingRoom_Researcher
- ▶ SC202005_Ser10_Notebooks
- ▶ STUDENT_LEFT_OVERS
- ▶ UA2_10_2014_2023_Email Archive_Export
- ▶ UA2_10_2014_2023_OTC
- ▶ UE8_2_UE_RadioBrdcstFilmRecords
- ▶ ULS_ArchivesSpecialCollections_Repository
- ▶ ULS_CenterForAmericanMusic_Repository
- ▶ WWW_WorkingFolder
- ▶ XXX_Sort4Repository
- ▶ ZZZ_TRASH

Tools View


#	Title	Description	Code	Type
	collection.100_DC			Asset
	collection.100_EAD			Asset
	DAR.1925.01 series I			Folder
	DAR.1925.01 series II			Folder
	DAR.1925.01 series III			Folder
	DAR.1925.01 series IV			Folder
	DAR.1925.01 series V			Folder
	DAR.1925.01 series VI			Folder
	DAR.1925.01 series VII			Folder
	DAR.1925.01 series VIII			Folder
	DAR.1925.01 series XIII			Folder
	pitt_1_1_DA	Sowing Seeds		Asset
	pitt_1_1_DA_dc	Sowing Seeds		Asset
	pitt_1_1_DA_mods	Sowing Seeds		Asset
	pitt_1_10_DA	Mary		Asset
	pitt_1_10_DA_dc	Mary		Asset
	pitt_1_10_DA_mods	Mary		Asset
	pitt_1_11_DA	Spring Leisure		Asset
	pitt_1_11_DA_dc	Spring Leisure		Asset
	pitt_1_11_DA_mods	Spring Leisure		Asset
	pitt_1_12_DA	Waiting		Asset
	pitt_1_12_DA_dc	Waiting		Asset
	pitt_1_12_DA_mods	Waiting		Asset
	pitt_1_13_DA	Writing		Asset
	pitt_1_13_DA_dc	Writing		Asset

Filter Apply

1 of 16 1-30 of 479



Title:
Description:
Reference:
Type:
Code:



Properties History XML Actions Browse

Title	DAR.1925.01 series I
Description	
Type	Folder
Ref	4084fb56-1b05-478

Identifiers

This record has no identifiers

Sync Tree

- ▶ AIS200704_JPHOH
- ▶ AIS200902_Pittgh_Speech_Society_Proj
- ▶ AIS201301_JasonAltmireCongPapers
- ▶ AIS201509_GarnerErroll
- ▶ chancelloroutbox
- ▶ CLIR_Grant_OralHistories
- ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	DAR.1925.01 subseries 1			Folder
	DAR.1925.01 subseries 2			Folder

Filter Apply

Title: Description: Reference: Type: Code:

preservica.com

Sync Tree

- ▶ AIS200704_JPHOH
- ▶ AIS200902_Pittgh_Speech_Society_Proj
- ▶ AIS201301_JasonAltmireCongPapers
- ▶ AIS201509_GarnerErroll
- ▶ chancelloroutbox
- ▶ CLIR_Grant_OralHistories
- ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	DAR.1925.01 subseries 1			Folder
	DAR.1925.01 subseries 2			Folder

Filter Apply

Title: Description: Reference: Type: Code:

preservica.com

preservica.com

Preservica Karl May English

Dashboard Ingest Access Preservation Data Management Administration Help

Search Archive

Root > IslandoraIngest > collection.100 > DAR.1925.01

Sync Tree

- ▶ AIS200704_JPHOH
- ▶ AIS200902_Pittgh_Speech_Society_Proj
- ▶ AIS201301_JasonAltmireCongPapers
- ▶ AIS201509_GarnerErroll
- ▶ chancelloroutbox
- ▶ CLIR_Grant_OralHistories
- ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	DAR.1925.01 subseries 1			Folder
	DAR.1925.01 subseries 2			Folder

Filter Apply

Title: Description: Reference: Type: Code:

preservica.com

preservica.com

Preservica Karl May English

Dashboard Ingest Access Preservation Data Management Administration Help

Search Archive

Root > IslandoraIngest > collection.100 > DAR.1925.01

Sync Tree

- ▶ AIS200704_JPHOH
- ▶ AIS200902_Pittgh_Speech_Society_Proj
- ▶ AIS201301_JasonAltmireCongPapers
- ▶ AIS201509_GarnerErroll
- ▶ chancelloroutbox
- ▶ CLIR_Grant_OralHistories
- ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	DAR.1925.01 subseries 1			Folder
	DAR.1925.01 subseries 2			Folder

Filter Apply

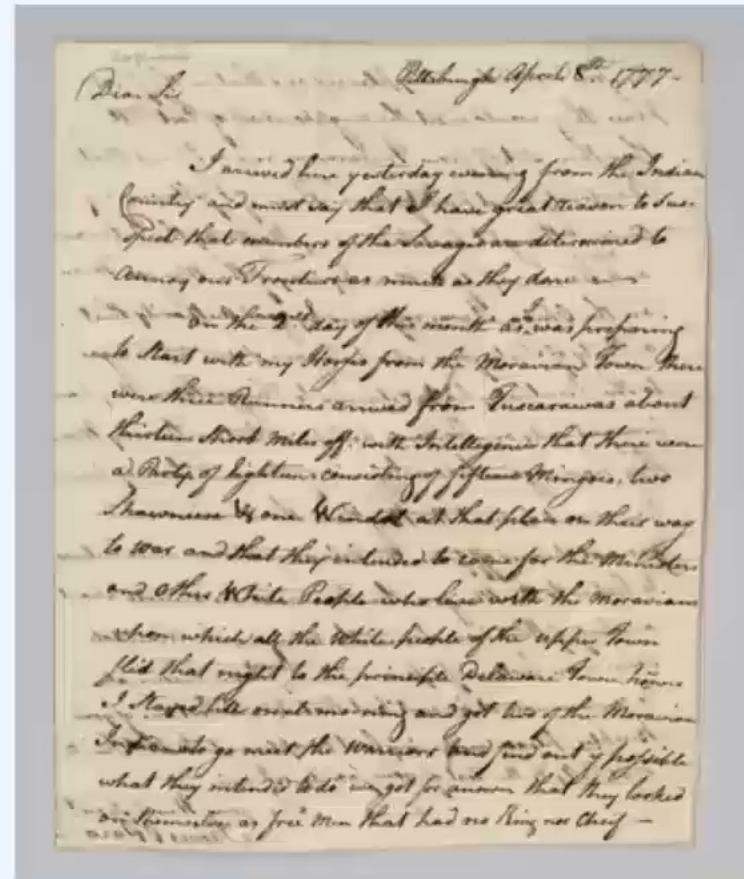
Title: Description: Reference: Type: Code:

preservica.com

preservica.com

Properties Advanced History XML Actions

Title	pitt_31735051658254		
Description	James O'Hara to Devereaux Smith		
Type	Asset	Security Tag	open
Ref	5634e70d-e394-4aec-be1c-bbf20a4bbbaa		



Identifiers

Type	Value
SourceID	pitt:31735051658254

Edit

Groups Without a Finding Aid

- Research group to define collection to which the assets belong
- Document any arrangement available
- Create structure in Preservica
- Create DC tag(s)
- Define naming stems
- Bulk update
- Review to ensure completeness
- File in final location



Browse ▾

Create ▾

Search All Records



A&SC

Unpublished

[Home](#) / [Accessions](#) / University of Pittsburgh Yearbooks, the Owl and Panther Prints

Basic Information >

Extents >

Instances >

Deaccessions >

Collection Management >

Events >

Assessments >

Edit

Add Event ▾

Spawn ▾

More ▾

Delete

University of Pittsburgh Yearbooks, the Owl and Panther Prints

Accession

Basic Information

Title	University of Pittsburgh Yearbooks, the Owl and Panther Prints
Identifier	UA 2010 06
Accession Date	2010-05-10
Publish?	False
General Note	Sent from Sandra Watt, Office of Student Affairs. AT record created by: marianne.
Resource Type	Collection
Restrictions Apply?	False
Access Restrictions?	False
Use Restrictions?	False

Root > IslandoraIngest > collection.12

- Sync Tree
- ▶ AIS200704_JPHOH
 - ▶ AIS200902_Pttbgh_Speech_Society_Proj
 - ▶ AIS201301_JasonAltmireCongPapers
 - ▶ AIS201509_GarnerErroll
 - ▶ chancelloroutbox
 - ▶ CLIR_Grant_OralHistories
 - ▶ IslandoraIngests
 - ▶ Audubon_BirdsOfAmer_UPitt
 - ▶ collection.12
 - ▶ collection.100
 - ▶ collection.106
 - ▶ collection.110
 - ▶ CTC196601_CurtisTheatreColl
 - ▶ DAR192514_ChrisGistJournals
 - ▶ Miriam
 - ▶ Nick
 - ▶ officeofthechancellor
 - ▶ Olivia
 - ▶ PST_Ingests
 - ▶ REQUEST_ReadingRoom_Researcher
 - ▶ SC202005_Ser10_Notebooks
 - ▶ STUDENT_LEFT_OVERS
 - ▶ UA2_10_2014_2023_Email_Archive_Export
 - ▶ UA2_10_2014_2023_OTC
 - ▶ UE8_2_UE_RadioBrdcstFilmRecords
 - ▶ ULS_ArchivesSpecialCollections_Repository
 - ▶ ULS_CenterForAmericanMusic_Repository
 - ▶ WWW_WorkingFolder
 - ▶ XXX_Sort4Repository
 - ▶ ZZZ_TRASH

Tools View

#	Title	Description	Code	Type
	collection.12_DC			Asset
	pitt_1907e49702	The Owl. 1907		Asset
	pitt_1907e49702_dc	The Owl. 1907		Asset
	pitt_1907e49702_METS	The Owl. 1907		Asset
	pitt_1907e49702_mods	The Owl. 1907		Asset
	pitt_1908e49702	The Owl. 1908		Asset
	pitt_1908e49702_dc	The Owl. 1908		Asset
	pitt_1908e49702_METS	The Owl. 1908		Asset
	pitt_1908e49702_mods	The Owl. 1908		Asset
	pitt_1909e49702	The Owl. 1909		Asset
	pitt_1909e49702_dc	The Owl. 1909		Asset
	pitt_1909e49702_METS	The Owl. 1909		Asset
	pitt_1909e49702_mods	The Owl. 1909		Asset
	pitt_1910e49702	The Owl. 1910		Asset
	pitt_1910e49702_dc	The Owl. 1910		Asset
	pitt_1910e49702_METS	The Owl. 1910		Asset
	pitt_1910e49702_mods	The Owl. 1910		Asset
	pitt_1911e49702	The Owl. 1911		Asset
	pitt_1911e49702_dc	The Owl. 1911		Asset
	pitt_1911e49702_METS	The Owl. 1911		Asset
	pitt_1911e49702_mods	The Owl. 1911		Asset
	pitt_1912e49702	The Owl. 1912		Asset
	pitt_1912e49702_dc	The Owl. 1912		Asset
	pitt_1912e49702_METS	The Owl. 1912		Asset
	pitt_1912e49702_mods	The Owl. 1912		Asset



Title:
Description:
Reference:
Type:
Code:

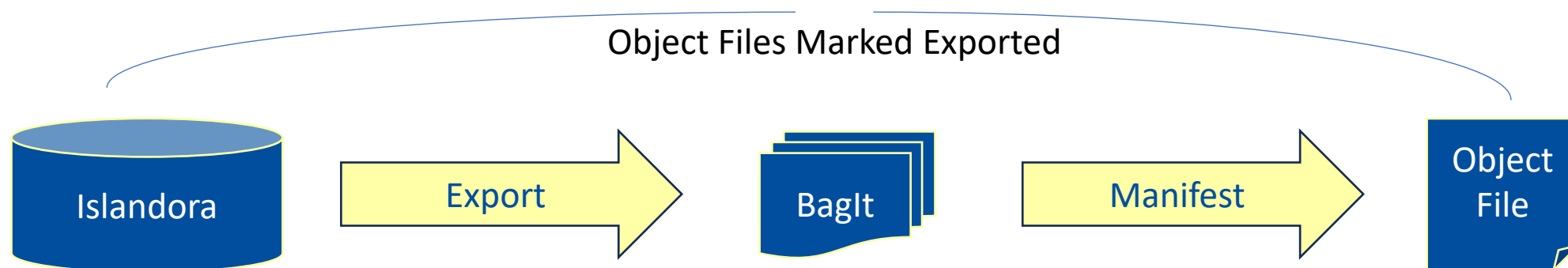


Ingest Verification

- (Dis)trust and verify
 - Did we capture all the in-scope objects in Islandora?
 - Did the transformation from BagIt to OPEX/PAX capture all components?
 - Did the Preservica fully ingest the OPEX/PAX?
 - Does Preservica have what Islandora had?

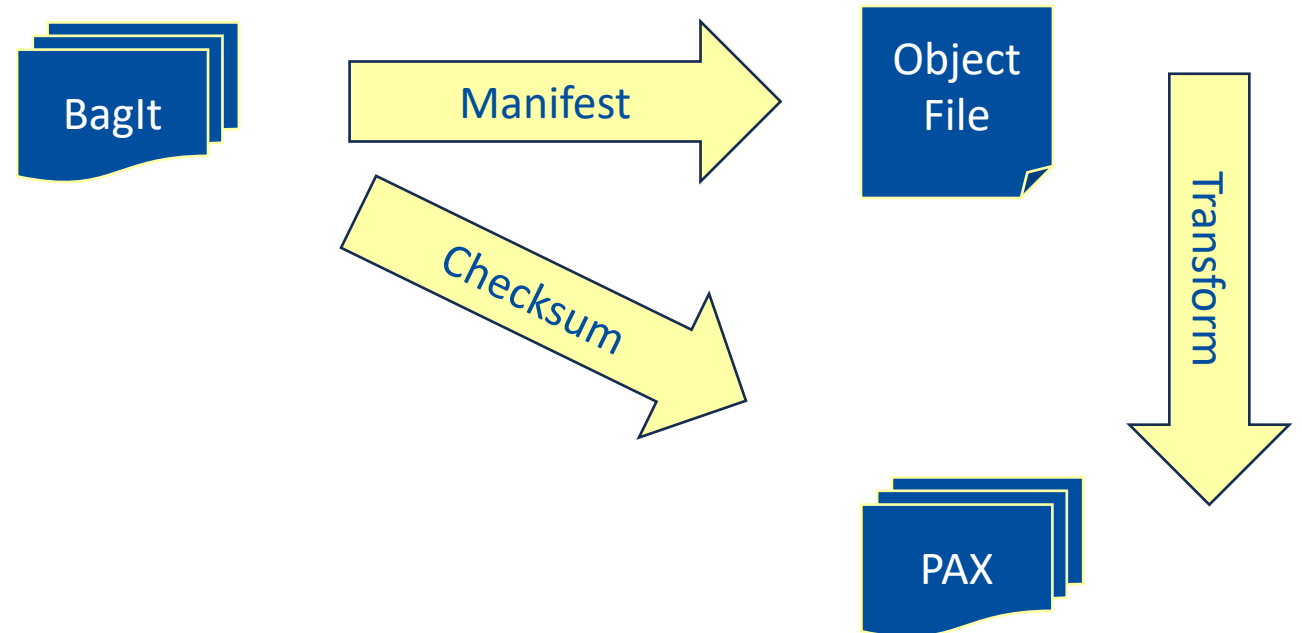
Ingest Verification

- Did we capture all the in-scope objects in Islandora?
- BagIt exports:
 - A manifest including SHA1 checksums
 - Metadata files
 - Digital object files
- We enumerate each digital object file and mark it as exported in the source Islandora system, with the timestamp of processing



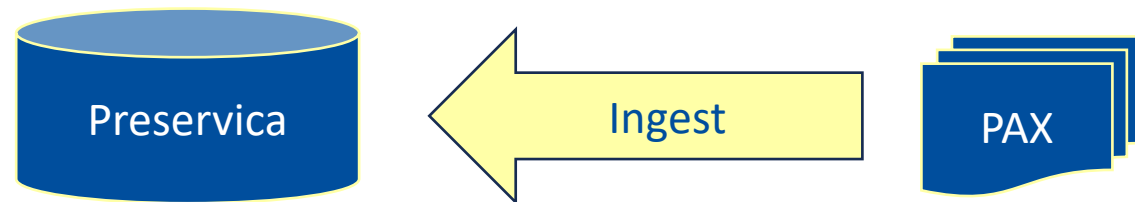
Ingest Verification

- Did the transformation from BagIt to OPEX/PAX capture all components?
- Implicit trust in the transformation script from Preservica
- Passthrough of SHA1 hashes



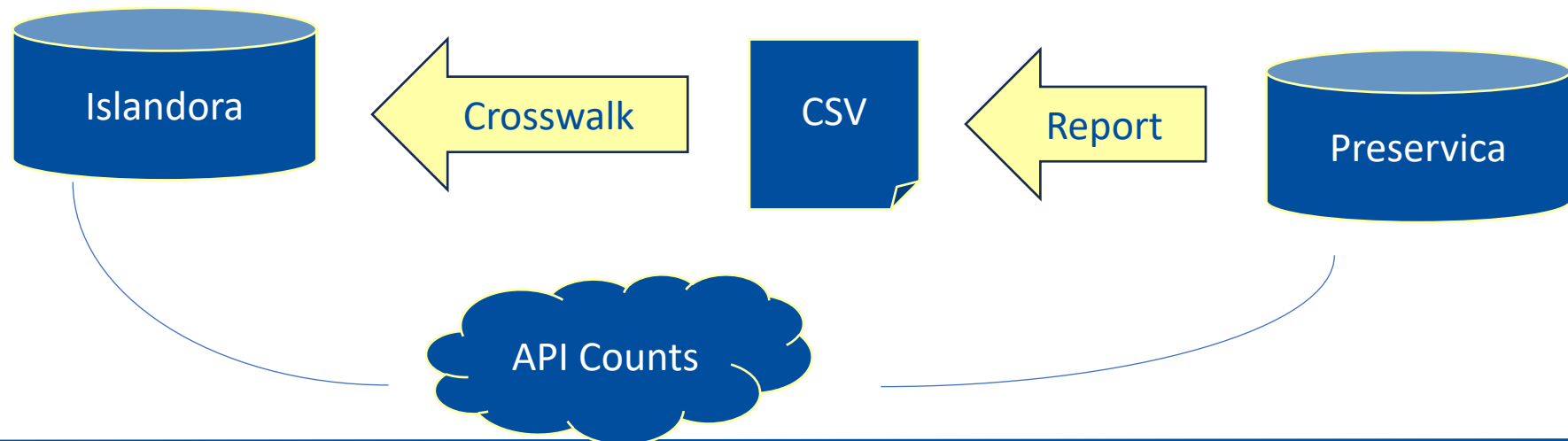
Ingest Verification

- Did the Preservica fully ingest the OPEX/PAX?
- Implicit trust in the ingest process from Preservica
- Processing of OPEX/PAX

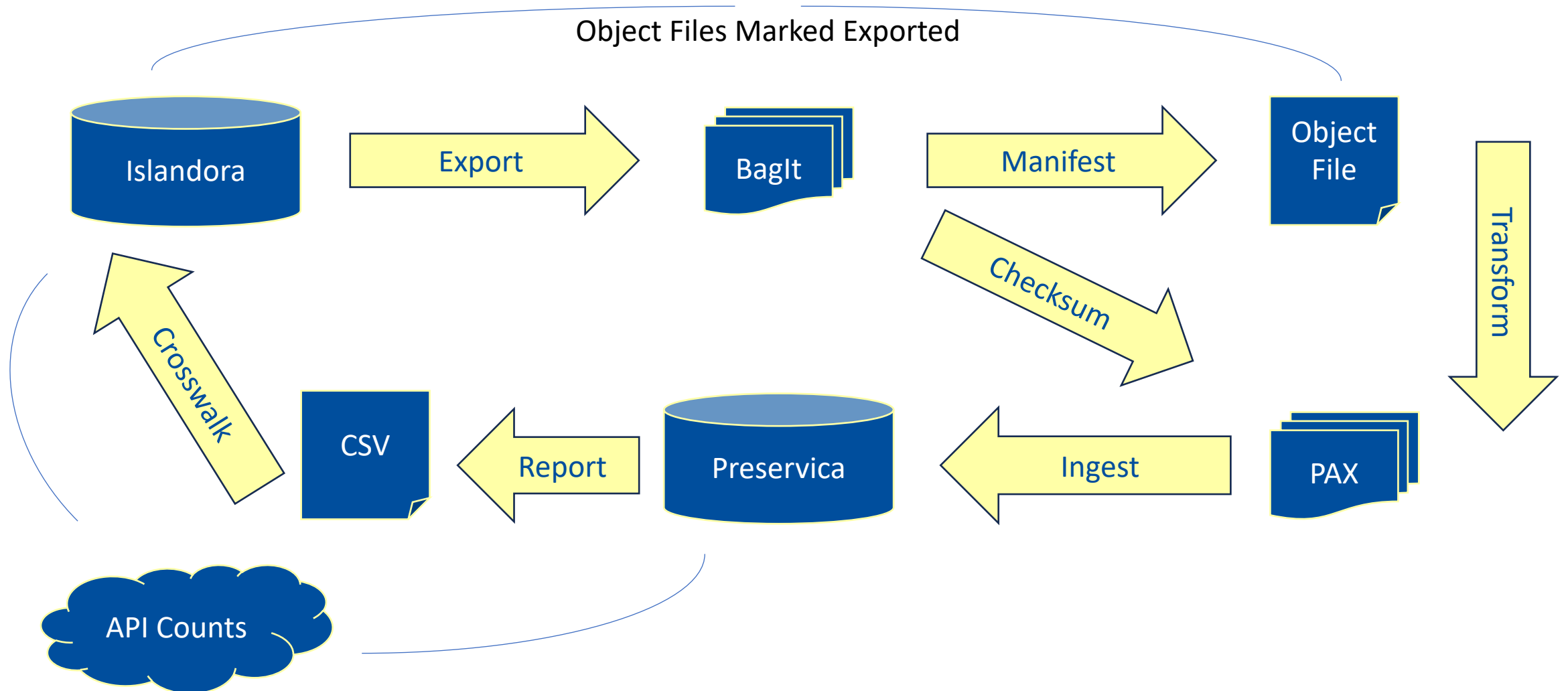


Ingest Verification

- Does Preservica have what Islandora had?
- Preservica Ingest Report
- Post-processing for Islandora
- **Blind spot:** complex components
 - Accommodation: count the children



Ingest Verification



Forward Progress

- Consistency in file names terrific assist in bulk options
- Availability of info in preservation description field great for assisting with comparing assets to FA and identifying individual assets when needed
- Available metadata on scans means faster creation of DC tags that can be used for each collection

Thank you

*Getting There from Here: a Path to
Preserve Digital Collections*

Clinton Graham

Systems Development Lead

ctgraham@pitt.edu

Kari May

Digital Archives
& Preservation Librarian

karimay@pitt.edu

