Structural Changes
Collections at Yale

Yale Center for British Art

Yale University Art Gallery

Yale Peabody Museum of Natural History

Yale University Library
2008 - Office of Digital Assets & Infrastructure (ODAI)
  • Market crash; who drives?
  • Open access policy
2016 - Deputy Provost for Collections
2017 - Cultural Heritage IT Pillar created
  • Regular convening of cultural heritage directors
  • Regular convening of cultural heritage IT and collections representatives
  • Financial incentives to collaborate with University IT
  • Urgency for museum solution for digital asset management and digital preservation
Architecture, Convergence, Sustainability
Key Architectural Principles

- Loosely coupled systems
- Fault-tolerant integration
- API driven workflows
- Little to no application customizations
- Separate museum workflows prior to aggregation
- Standardized metadata, media, and packaging format targets
DAM—Digital Asset Management

Integration Schedule
1. New asset ingest to NetX from TMS/EMu
2. New asset ingest to Preservica from TMS/EMu
3. Update NetX when metadata values change in TMS/EMu
4. Update TMan when CDS values modified in NetX UI
5. Promote NetX asset to Preservica via the NetX UI
6. Expire asset in NetX via NetX UI
7. Expire asset in NetX and/or Preservica via metadata change in EMu/TMS
8. Request Preservica copies of assets through NetX UI
9. Update metadata in Preservica via TMan
10. Generate, modify, or delete CDS derivatives

Use Case Dimensions
- DAM Use Case Dimensions
- Museum CMS
- Digital Asset Management
- Traffic Management
- Content Delivery
- Working Environments

System Dimensions
- Museum CMS
- Digital Asset Management
- Traffic Management
- Content Delivery
- Working Environments

Role Dimensions
- C = Curator
- CM = Collection Manager
- MM = Media Manager
- S = Student
- F = Faculty
- SF = Staff

Collection Management
- YCBA TMS
- YPM EMu
- YUAG TMS

Ingest & Workflow
- YCBA MediaTool
- YPM Ingest Tool
- YUAG MediaTool

Digital Preservation Service (DPS)
- YCBA Preservica
- YPM Preservica
- YUAG Preservica

Metadata & Discovery
- Yale Persistent Linking
- Cross Collection Discovery

Traffic Manager (TMan)
- Asset IDs & Handling Codes
- Asset Descriptive Metadata

Content Delivery Service (CDS)
- Content Delivery Service
- LORIS Scalable Images

Research Projects
- Digital Humanities
- Medieval Manuscripts
- Ten Thousand Rooms

Collection Websites
- Discover YDC
- FindIT, QuickSearch, YUL
- Preservica Universal (All)
- YCBA, YPM, YUAG

University Websites
- Yale Sites
- Canvas Sites

NetX API

Future DAM Portal
Governance Model

- Departmental Advisory Groups
  - Advisory, Oversight, and Control
  - Advisory To
- Program Group
  - WG
  - WG
  - WG
  - Working Groups
  - Advisory To
  - Advisory To
- Steering Committee
  - Departmental Representation
  - Advisory To
- Service Teams
  - Advisory To
- Departmental Governance and Business Processes
  - Directors of
  - Reporting to Fiduciary Department
  - Conforming To
1. **Annual Subscription**
   The fee that each partner pays to sustain expanded use of shared-services.

2. **In-Kind Support**
   Minimum commitment of staff roles and time to sustain the collaboration program.

3. **Commodity Charge Back**
   The fee that each partner pays for the actual cost of the commodities they use.

4. **Value Add Investment**
   Investment made partners, individually or in groups, to explore new opportunities.

5. **Transformative Investment**
   University or external funding to accelerate academic outcomes, realize efficiencies, bridge transitions, and explore new opportunities to advance scholarship.
## Service Sustainability Model

### Maturity Levels

1. **Initiating**  
   Service offering not yet formally recognized.
2. **Formed**  
   Service offering formally recognized and resourced.
3. **Defined**  
   Service capabilities are defined and understood.
4. **Managed**  
   Work and capacity are controlled and measured.
5. **Improving**  
   The Service offering is continually improved.

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### Service Attributes

1. **Engagement**  
   The process of interacting with stakeholders.
2. **Planning**  
   The process of determining what will be done.
3. **Delivery**  
   The process of providing value to users.
4. **Assessment**  
   The process of understanding outcomes.
5. **Governance**  
   The process to direct and control.
Next Steps

Refresh museums’ core digital infrastructure

- DAMS ✓
- Digital Preservation ✓
- Metadata Aggregation
- Content Delivery API
- Discovery Platform
The Open Archives Initiative Protocol for Metadata Harvesting

2 February 2017

Activity Streams 2.0
W3C Recommendation 23 May 2017

This version:
https://www.w3.org/TR/2017/REC-activitystreams-core-20170523/

Latest published version:
https://www.w3.org/TR/activitystreams-core/
Legacy Content API
Legacy Content API Limitations

Calligraphy in Sutra Script (Fojing Wen) from the Sutra of the Great and Complete Nirvana (Mahaparinirvana)
Late 7th century c.e.
Handscroll, ink on paper
11 1/2 x 294 1/2 in. (29.2 x 748 cm)
Yale University Art Gallery 2013.19.1
Calligraphy in Sutra Script (Fojing Wen) from the Sutra of the Great and Complete Nirvana (Mahaparinirvana)

late 7th century c.e.

Handscroll, ink on paper

11 1/2 x 294 1/2 in. (29.2 x 748 cm)

Gift of H. Christopher Luce, B.A. 1972, in honor of Henry W. Luce, B.A. 1892

2013.19.1

Geography: China

Culture: Chinese

Period: Sui (581–617 c.e.) or Tang dynasty (618–907 c.e.)

Classification: Calligraphy

Status: Not on view

Note: This electronic record was created from historic documentation that does not necessarily reflect the Yale University Art Gallery’s complete or current knowledge about the object. Review and updating of such records is ongoing.
Future
• Reviewing and Updating Previous Specifications
• User Research and Persona Creation
• Index Development and Implementation
• User Interface Development and Implementation
• API Development and Implementation
INNOVATION!
From Talking to Action
Fostering Deep Collaboration
Between University Libraries, Museums, and IT

CNI Membership Meeting, Fall 2018

Michael Appleby
Director, Software Engineering

Susan Gibbons
Deputy Provost for Collections & Scholarly Communication

Dale Hendrickson
Senior Director, Library IT

Louis King
Enterprise Architect