Sun Preservation and Archiving Special Interest Group (PASIG)

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NDHA Programme Background
Environment

Call to action
Wait or act now

• Legislative mandate and strategic context

• Development of digital preservation expertise

• International library community
Establish the National Digital Heritage Archive to enable the National Library of New Zealand to meet its mandate to collect, make accessible, and preserve in perpetuity, New Zealand’s digital heritage, as defined by the Library’s current collection policy.
Development decision

Goal
Collection, preservation and access in perpetuity

- Commercial solution vs. building it yourself vs. project based company
- Important to look at the required institutional outcome
- Repository solutions, digital archiving solutions and digital preservation systems are unlikely to be the same thing
The NDHA Programme will be successful and delivered in a timely and cost effective manner.
Collaboration

NDHA Peer Review Group

- British Library
- Cornell University Library
- Getty Research Institute
- National Library of Finland
- Koninklijke Bibliotheek
- National Library Board of Singapore
- National Library of China
- Sun Microsystems
- University of Glasgow
- Yale University

Stakeholder

“anyone who is affected by – or can influence, the decision or outcome”
The Solution

- Digital Preservation System (DPS)
  - generic software solution for the wider market
  - broad ranging digital preservation solution for a range of community interests

- NDHA is the NLNZ implementation of DPS
  - wider functionality and business change are required for practical digital preservation within any given institution

Digital Preservation Solution (DPS)
It is important from NLNZ perspective that the solution is not NLNZ specific
Phased Approach

Phase I 75%
- First delivery of DPS for acceptance testing
- Testing, testing and more testing!
- Training, training and more training!
- Phase I Acceptance

03 Jun 2008
NDHA operational for INGEST

STORAGE

Phase 2 100%
- Delivery of system for acceptance testing
- Testing
- Training
- Phase 2 Acceptance

NDHA operational for DIGITAL PRESERVATION plus the balance of the functionality

Roll Out
Phase 1:
- Live Production System
Phase 2:
- Fully Operational

Late 2008
**Phase 1 Specs**

From producer management ➔ workflow automation ➔ delivery, audit trails & reporting

- User management
- Producer management
- Deposit 1
- Deposit 2
- Validation stack
- Intellectual Entity (IE) data model
- Submission Information Package (SIP) submission
- SIP processing
- Deposit registration
- Technical analyst
- Workbench

- Consolidated appraisal workbench
- DPS transformers
- Deposit Application Programme Interface (API)
- Audit & provenance
- Process management
- User management API
- Permanent repository
- Delivery
- Meditor
- Reports
- Back office configuration
Phase 2 Delivery

Preservation planning and action are in Phase 2 to allow for extended requirements analysis prior to development.

- Format Library
- Risk analysis
- Preservation action
- Enhanced set import/export management for preservation actions

- Maintenance and management functions in Staging NOT permanent
- Enhanced configurability
NDHA Programme Update
Hardware environment

• Permanent archive
  • Sun CIS - 2 units
  • 48 terabyte for production environment
  • 24 terabyte for test environment

• High speed operational storage
  • Sun 9990
  • 18 servers

• Production
  • Sun 4600 servers – 8 units
  • paired for redundancy in 4 tiers (deposit, staging, permanent archive, Oracle RAC)

• Low cost storage
  • Sun X4600 (Thumper) – 3 units
Integration

Workstream

It's not all about the Digital Preservation System

- Deposit applications development
- Existing collection management systems integration
- Browser based content delivery systems development
- Existing resource discovery and delivery systems integration
- Reporting systems
- Common services integration
- Data migration
Integration so far

Milestones

Y
Y
Y
Y
Y

• Staff deposit application
• HTTrack to ARC converter utility
• Archived website migration tools
• OMS data migration tools
• Content aggregator
• Delivery viewers
Internal Submission Application

- Submission Information Package (SIP)
- Creation Tool

Packages up

- Files
- Metadata
- Digital object structure
- Fixity generation (MD5)
- Links to descriptive record
- Links producer records
- Submits SIP to the NDHA

INDIGO

Forms ...
Romanic: indicum, indicus
Spanish: indicio
Portuguese: endego
Dutch: Indigo
NDHA: in dey go
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