

Integrating CONTENTdm and Archivematica with Private LOCKSS Networks

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CONTENTdm

- LOCKSSdm
 - CONTENTdm 6 plugin
 - Proxy script
- Development done on behalf of the COPPUL
PLN
- <https://github.com/mjordan/lockssdm>

Just-in-case copies

- CONTENTdm plugin
 - Manages AUs
 - Exposes simplified versions of items for LOCKSS to harvest
- Proxy
 - Ensures that user only sees LOCKSS version if original not available
 - Allows library to add branding, messages, etc. to the HTML surrounding the preserved item

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Home >> BC Multicultural Photograph Collection at the Vancouver Public Library >> 1300 block Government Street

Reference URL

1300 block Government Street

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Description

You are viewing a simplified, backup-friendly version of our [CONTENTdm collections](#).

1300 block Government Street



Title: 1300 block Government Street

Creator: Timms, Philip

Subject: Streets - British Columbia - Victoria - Government Street; Street-railroads - British Columbia - Victoria; Pedestrians - British Columbia - Victoria; Buildings - British Columbia - Victoria; Chinese Canadians - British Columbia; Imperial Bank of Canada

Date: 1/1/1908

Identifier: VPL_18744

Rights: Public Domain Please see the terms of use at http://multiculturalcanada.ca/cc0_rights.htm

Format: image/jpeg

Type: Image



LOCKSSdm Proxy

- Proxied item URL
 - <http://services.lib.sfu.ca/lockssdm/proxy/lockssdm.php?url=http://content.lib.sfu.ca/cdm/ref/collection/vpl/id/2714>
- Proxied collection URL
 - <http://services.lib.sfu.ca/lockssdm/proxy/lockssdm.php?url=http://content.lib.sfu.ca/cdm/landingpage/collection/vpl>


LOCKSSdm version of collection

SFU Library Digital Collect x

lib-general.lib.sfu.ca/lockssdm/proxy/lockssdm.php?url=http://content.lib.sfu.ca/cdm/landingpage/collection/vpl

SFU SIMON FRASER UNIVERSITY LIBRARY

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 LOCKSS

LOCKSS system has permission to collect, preserve, and serve this Archival Unit

- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Interior of Steveston salmon cannery](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [Komagata Maru incident](#)
- [To Male Enemy Aliens, Notice](#)
- [Japanese Canadian men reading evacuation notice](#)
- [Japanese Canadian relocation from the B.C. Coast - Documenting](#)
- [Japanese Canadian children being escorted by Vancouver policeman](#)
- [Japanese Canadian relocation from the B.C. Coast - Army filling ticks](#)
- [Japanese Canadian relocation from the B.C. Coast - Shingle bolts](#)
- [Japanese Canadian relocation from the B.C. Coast - Net mending](#)
- [Japanese Canadian relocation from the B.C. Coast - Imperial Cannery in Steveston](#)
- [Japanese Canadian relocation from the B.C. Coast - Net mending](#)
- [Japanese Canadian relocation from the B.C. Coast - Nets](#)
- [Japanese Canadian relocation from the B.C. Coast - Fishing boats](#)

Benefits of LOCKSSdm

- Very easy way to preserve content in a PLN
- Provides end users with just-in-time access to preserved content

Drawback of LOCKSSdm

- Doesn't preserve high-quality masters of content

Archivematica

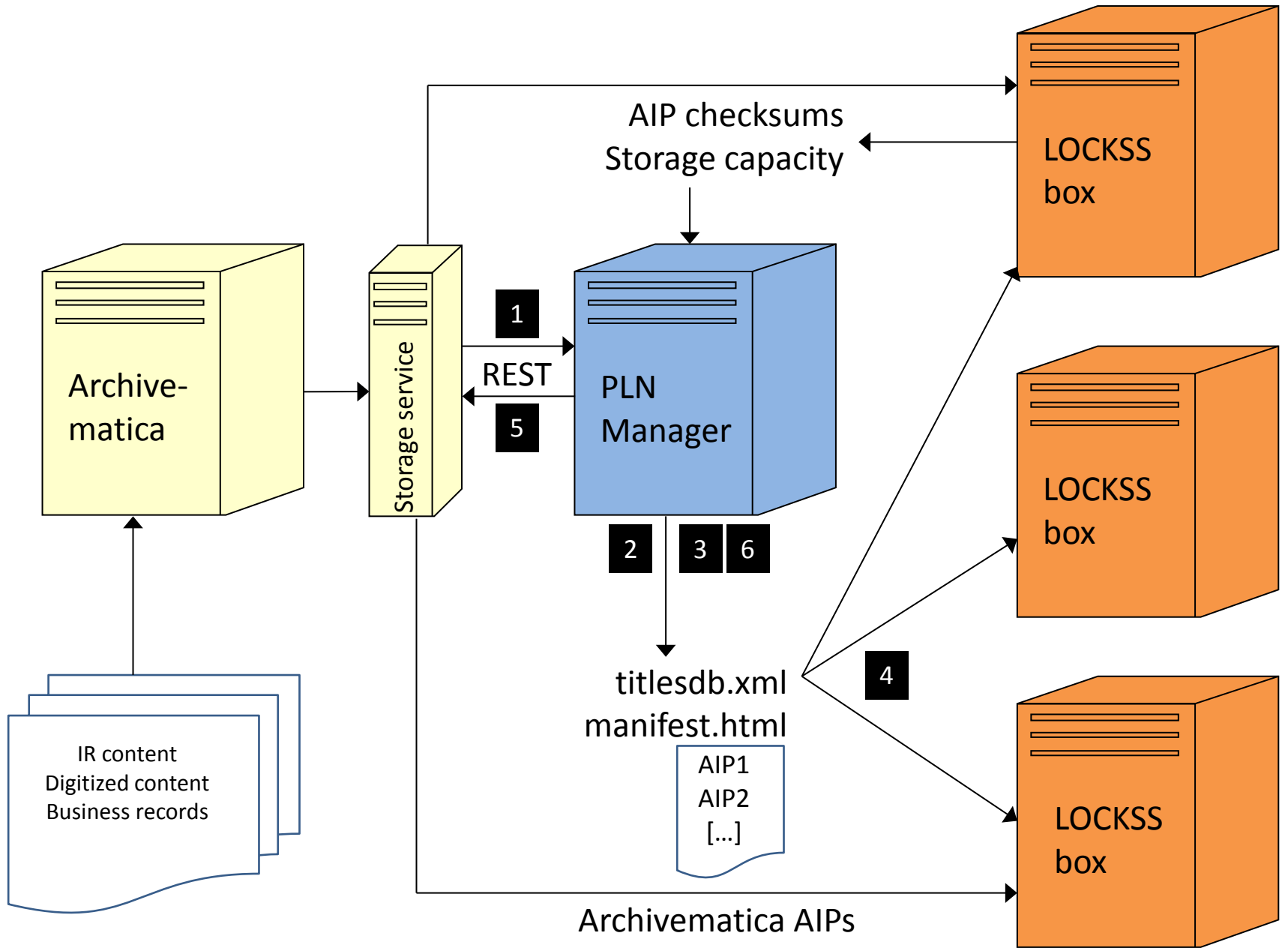
- Archivematica produces full OAIS Archival Information Packages (AIPs) including normalized and original files, METS, PREMIS, etc.
- Simon Fraser University Library sponsored the Archivematica Storage Service API, with LOCKSS as the first external storage platform
- Storage Service was released with Archivematica 1.0 (preview now available)
- Is a “content provider” for the PLN Manager

PLN Manager

- Main function is to automate the population and monitoring of a PLN
- Acts as a “broker” between a PLN and a content provider such as Archivemata
- Can be used with other content providers, such as Open Journals Systems
- SFU Library is in early stages of developing the PLN Manager

AU management workflow

1. Archivemata Storage Service informs PLN Manager via REST of new content (AIP) and stages it for harvesting
2. PLN Manager determines which AU to put the AIP in
3. PLN Manager generates new PLN configuration files
4. LOCKSS boxes harvest new content
5. When boxes reach consensus, PLN Manager informs Archivemata Storage Service via REST
 - a) The location of the AIP on the network (content server URL and AU name)
 - b) To delete staged AU content (AIPs)
6. PLN Manager updates titlesdb.xml to “pub_down”



Ongoing work

- Determine optimal LOCKSS configuration settings to allow automation (e.g., size of AUs)
- Develop means to extract information about network health from PLN
- Finalize REST interactions between Archivemata Storage Service and PLN Manager
- Develop and test