

PREMIS Event Service

Mark Phillips, Matt Schultz, Kurt Nordstrom
Open Repositories, June 9, 2011

Component of the UNT Libraries repository infrastructure

Needed a way to log events that
occur during a digital objects lifecycle

Virus Check, Ingest, Fixity Check, Replication

PREMIS Event Service

“Micro-Service” built on the principles of REST using Atom-Pub

Each repository service sends outcome as an event to service.

Central event collector

Uses the PREMIS Event and Agent models

Agent = Software, Human, Organization

Use URLs for string values

Event includes:

Event_identifier
Event_type
Event_timestamp
Event_outcome
Event_outcome_detail
Agent_identifier
Object_identifier
Event_detail

Event Example

| | |
|----------------------|--|
| Event_identifier | 9fbcec1513d94627a6a46333feef0014 |
| Event_type | http://purl.org/net/untl/vocabularies/preservationEvents/#replication |
| Event_timestamp | 2011-06-08 18:56:30 |
| Event_outcome | http://purl.org/net/untl/vocabularies/eventOutcomes/#success |
| Event_outcome_detail | Replication time for object ark:/67531/coda3z2f : 0:00:02.280884 Object oxum was 40417270.6 Total data transfer time was 0:00:00.527563. Average throughput was 74815.0 KB/s |
| Agent_identifier | http://coda.library.unt.edu/agent/codaReplication/ |
| Object_identifier | ark:/67531/coda3z2f |
| Event_detail | Replication of object ark:/67531/coda3z2f Using Harvester, revision 4346M |

Event URL

<http://coda.library.unt.edu/event/9fbcec1513d94627a6a46333feef0014/>

Atom Feed for Event

<http://coda.library.unt.edu/APP/event/9fbcec1513d94627a6a46333feef0014/>

Feed for each object returns
all events for that object

Basic search interface

Ability to harvest all events OAI-PMH and Atom

Built with Django, Python

Open Source via MetaArchive

Questions?

mark.phillips@unt.edu

kurt.nordstrom@unt.edu

matt.schultz@metaarchive.org

<http://digital.library.unt.edu>

<http://texashistory.unt.edu>

<http://metaarchive.org>