PREMIS Event Service

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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

<table>
<thead>
<tr>
<th>Event_identifier</th>
<th>9fbce513d94627a6a46333feef0014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event_type</td>
<td><a href="http://purl.org/net/untl/vocabularies/preservationEvents/#replication">http://purl.org/net/untl/vocabularies/preservationEvents/#replication</a></td>
</tr>
<tr>
<td>Event_timestamp</td>
<td>2011-06-08 18:56:30</td>
</tr>
<tr>
<td>Event_outcome</td>
<td><a href="http://purl.org/net/untl/vocabularies/eventOutcomes/#success">http://purl.org/net/untl/vocabularies/eventOutcomes/#success</a></td>
</tr>
</tbody>
</table>
| 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
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http://digital.library.unt.edu
http://texashistory.unt.edu
http://metaarchive.org