Ev--1: Scope / Purpose

This specification describes event objects that are intended to link named agent entities with a given archival object. Events represent a specific action that one or more agents undertook in relation to one or more archival objects at a specific date and time or a range of specific dates and times.

Within the application, it would be possible to represent date-based actions that are part of a typical archival workflow as events, such as accessions, deaccessions, and other collection management statements (see these specifications). Events also allow users of the application to record events related to digital objects at a high level.

Ev--2: Record / template description

Event records will be created within the context of the appropriate archival object record to which they will be linked (i.e. accession, resource/resource component, or digital object/digital object component).

Below is a list of the fields, sub-records, and linking options:

Elements

- Event type (REQUIRED)
- Event begin date (REQUIRED)
- Event begin time
- Event end date
- Event end time
- Event detail note
- Event outcome
- Event outcome note
System control data

- Record Created Timestamp
- Last Modified Timestamp
- Record Created Staff Name
- Last Modified Staff Name

Linked context records

- Agent records (context record), 1 or more, with optional role information (see below)
- Accession records (context record), 1 or more, with optional role information (see below)
- Resource records (context record), 1 or more, with optional role information (see below)
- Resource component records (context record), 1 or more, with optional role information (see below)
- Digital object records (context record), 1 or more, with optional role information (see below)
- Digital object component records (context record), 1 or more, with optional role information (see below)

Ev--3: Record uniqueness

All events recorded in the database are checked to prevent the duplication of identical events.

In the case of adding a duplicate event record, the operator will be informed that the record cannot be saved since it already exists in the database.

In the case of an import leading to the creation of event records, the import log will indicate one or more events were not imported successfully.

Uniqueness is determined based on the following fields and links for an event record:

- Event type
- Event begin date
Ev--4: Creating, editing and linking event records

An event record must link to one or more agent records and one or more records that qualify as archival objects (i.e. accession, resource/resource component, or digital object/digital object component). An event record must also have the exact date sub-record associated with it. All links, to both agent records and archival object records, can be qualified by a link attribute that describes the role of the agent or archival object in the event.

Event records are created and linked via archival object records. Duplication is assessed in the context of the context record and from the point of creation. Every archival object record will include options to Add, Edit, and Remove event records. However, the availability of these functions is dependent on the permissions assigned to the operator, and are restricted to the staff of the repository that created the archival object record. Choosing to Add an event will open a blank event record template. Choosing to Edit an event will first require the object to select an already existing event record. The event template will then open, and the operator will be able to modify any of the elements for the selected event. Choosing to Remove an event will also require the operator to confirm the action before it is executed. For details on how the linking mechanism to agents should function, please see section Na--5 of the Agent specification (“Linking agent records and link attributes”).

Linking to agent and archival object records

Choosing to Add an agent link will open a name picker. The operator will then select an agent, represented by the primary name form, from the list of agents represented in the database. (See agent specification for more details about the linking process.) When linking an event to agent records and archival object records, operators can specify a
link attribute to indicate the role of the linked records to the event. Roles for both agents and archival objects should be configurable lists derived from existing controlled vocabularies. By default, the following role attributes should be available:

- Links to agent records: “transmitter”, “recipient”, “authorizer”, “implementer”, “validator”, “executing program”, and values from the LC MARC relator code list (http://www.loc.gov/marc/relators/relaterm.html)
- Links to archival object records: “source”, “outcome”

### Ev--5: Deleting event records

Deletion of event records consists of removing the event record itself and dissolving any links between the event record and associated agent and/or archival object records. Deleting an agent record can only be done from within the associated archival object record.

To delete an event record the operator must be a staff member of the repository that created the associated archival object record and have the appropriate level of permissions. The operator will select one or more events to delete and then click on the Delete record option. The operator will be required to confirm the deletion request. Upon confirmation, the indicated records will be deleted.

In general, the project recommends that implementers consider the deletion of event records carefully. Corrections may be possible, but it is expected that events may be used to record important information about transfer of custody, collection management events, or actions related to the management and preservation of digital objects.

### Ev--6: Business rules

#### Summary of permissions

Any operator with appropriate permissions may:

- Create an event record for an archival object record created by the operator’s repository
- Edit an event record for an archival object record created by the operator’s repository
- Delete an event record for an archival object created by the operator’s repository
- View any event record within the context of an archival object record
• View all event records for a given repository, with the ability to sort the list in multiple ways and scope it to attributes such as event type, event date, and event agent.

• NOT create an event record for an archival object record created by a different repository

• NOT edit an event record for an archival object record created by a different repository

• NOT delete an event record for an archival object created by a different repository

Behavior based on relationships to other records and modules

Deaccession records

• Events for any archival object that has been deaccessioned, regardless of degree, shall remain intact and associated with the record for that object.

• Such event records shall still be processed as part of a repository’s event history. They will not be suppressed, even though the record for the deaccessioned archival object will be otherwise suppressed.

Resource records

• If an operator attempts to delete a resource record with event records associated with it, the operator will be warned that all event records will also be deleted.

• When one or more “source” resources are merged into a target resource:
  o The application will automatically create a new event to record the merge:
    • eventType: resource merge
    • eventBeginDate/eventBeginTime: [whenever the merge process began]
    • eventEndDate/eventEndTime: [whenever the merge process finished]
    • Linked resources with role “source”: [one or more resources to be merged into the target]
    • Linked resources with role “target”: [the target resource that will receive the merger]
- Linked agent: [staff user that merged the records]
- eventOutcomeNote: “Resource(s) {...} merged into resource {...}”
  - The “source” resource records are suppressed or “tombstoned” (similarly to deaccession specification)¹
  - Any extant event records for the “source” resources are retained and not suppressed

- When one or more components are transferred from one resource to another:
  - The event will automatically create a new event to record the transfer:
    - eventType: resource transfer
    - eventBeginDate/eventBeginTime: [whenever the transfer process began]
    - eventEndDate/eventEndTime: [whenever the transfer process finished]
    - Linked resource with role “source”: [resource that components are being transferred from]
    - Linked resource components with role “transfer”: [transferred components]
    - Linked resource with role “target”: [resource that components are being transferred to]
    - Linked agent: [staff user that merged the records]
    - eventOutcomeNote: “Resource component(s) {...} transferred from resource {...} to resource {...}”
      - Any extant event records for the source resource are retained
      - Any extant event records for the transferred components are retained
      - Any extant event records for the target resource are retained

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¹ This represents a departure from current application behavior in Archivists’ Toolkit and is not the way the application handle merging name and subject records.
1. Select function to add a new event record from within the archival object record
2. Select the event type
3. Add a date sub-record
4. Using the name picker, select a primary agent to associate with the event
5. Save the event record

**Ev--8:**  Optional task sequence

1. Select additional agents to associate to the event
2. Select roles for additional agents associated with an event
3. Select a role for any agent associated with the event
4. Select an additional archival object record to link with the event
5. Select a role for any archival object associated with the event
6. Add an event detail note
7. Select an event outcome
8. Add an event outcome note

**Ev--9:**  User intentions / Application response sequence

TBA
<table>
<thead>
<tr>
<th>Element</th>
<th>Definition</th>
<th>Type</th>
<th>Default Values</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>eventType</td>
<td>Types of events to be recorded.</td>
<td>Config. list</td>
<td>accession*</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Most terms derived from suggested values for PREMIS eventType; asterisks denote additions.</td>
<td></td>
<td>accumulation*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>acknowledgement*</td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>agreement received*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>agreement sent*</td>
<td></td>
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<td></td>
<td>appraisal</td>
<td></td>
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<td>assessment</td>
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<td></td>
<td>capture</td>
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<td></td>
<td>cataloging*</td>
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<td></td>
<td></td>
<td>collection*</td>
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<td></td>
<td>compression</td>
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<td></td>
<td></td>
<td>contribution*</td>
<td></td>
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<td>custody transfer*</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>decompression</td>
<td></td>
</tr>
<tr>
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<td></td>
<td></td>
<td>decryption</td>
<td></td>
</tr>
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<td>eventBeginDate</td>
<td>Date</td>
<td>eventBeginTime</td>
<td>Time</td>
<td></td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------</td>
<td>-------------------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td>A date that indicates the start of an event</td>
<td>Date</td>
<td>A time in association with a begin date that indicates the start of an event</td>
<td>Time</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes</td>
<td></td>
<td>No</td>
<td></td>
</tr>
<tr>
<td><strong>eventEndDate</strong></td>
<td>A date that indicates the end of an event</td>
<td><strong>Date</strong></td>
<td><strong>No</strong></td>
<td></td>
</tr>
<tr>
<td>-----------------</td>
<td>------------------------------------------</td>
<td>----------</td>
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<td></td>
</tr>
<tr>
<td><strong>eventEndTime</strong></td>
<td>A time in association with an end date that indicates the end of an event</td>
<td><strong>Time</strong></td>
<td><strong>No</strong></td>
<td></td>
</tr>
<tr>
<td><strong>eventDetail</strong></td>
<td>Additional information about the event not intended to be processed by machine. It may record any information about an event and/or point to information stored elsewhere.</td>
<td><strong>Text</strong></td>
<td><strong>No</strong></td>
<td></td>
</tr>
</tbody>
</table>
| **eventOutcome** | A categorization of the overall result of the event in terms of success, partial success, or failure | **Config. list** | **success**  
**partial success**  
**failure** | **No** |
<p>| <strong>eventOutcomeNote</strong> | A detailed description of the result or product of the event | <strong>Text</strong> | <strong>No</strong> |
| <strong>eventRecordCreatedTimestamp</strong> | | <strong>Timestamp</strong> | <strong>Yes</strong> |</p>
<table>
<thead>
<tr>
<th>Element</th>
<th>Definition</th>
<th>Type</th>
<th>Default Values</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>linkingAgentRole</td>
<td>The role of the agent in relation to this event.</td>
<td>Config. list</td>
<td>authorizer, executing program, implementer, recipient, transmitter, validator</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(add values from LC Relator code list: <a href="http://id.loc.gov/vocabulary/relators.html">http://id.loc.gov/vocabulary/relators.html</a>)</td>
<td></td>
</tr>
<tr>
<td>Element</td>
<td>Definition</td>
<td>Type</td>
<td>Default Values</td>
<td>Required</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------------------------------------------------</td>
<td>--------------</td>
<td>----------------</td>
<td>----------</td>
</tr>
<tr>
<td>linkingObjectRole</td>
<td>The role of the object in relation to this event.</td>
<td>Config. list</td>
<td>source, outcome, transfer</td>
<td>No</td>
</tr>
</tbody>
</table>
Ev--11: Imports
TBA

Ev--12: Exports
TBA

Ev--13: Reports
TBA

Ev--14: Non-normative examples

**Recording an accession date**
Linked object: [accession record]
Linked agent: [Donor; role="transmitter" (or "donor")]
Linked agent: [Repository; role="recipient"]
Event type: “accession”
Event begin date: 2012-01-01
Event end date: 2012-01-01

**Recording an accession as processed**
Linked object: [accession record, role="source"]
Linked object: [resource record, role="outcome"]
Linked agent: [Staff user (processor); role="implementer"]
Event type: “processing”
Event begin date: 2012-01-01
Event end date: 2012-03-31

**Transferring digital object to preservation storage**
Linked object: [digital object record]
Linked agent: [Repository, role="transmitter"]

Linked agent: [agent representing storage system, role="recipient"]

Event type: “ingestion”

Event begin date: 2012-01-01

Event end date: 2012-01-01

Event detail: "Ingestion to dark archive. Package attributes [...]"

Event outcome: “Success”

Event outcome detail: “Successful ingest, manifest check and replication; received 2012-01-01”