

Event Messaging

Fedora generates event messages when a resource is **created, updated or deleted**.

The messages are composed for headers and body.

Message Headers

Header	Description	Values	Sample Value
org.fcrepo.jms.user	The Fedora user who made the change.		bypassAdmin
org.fcrepo.jms.eventID	A UUID associated with the event		urn:uuid:d0f9d030-8fac-474c-882c-0858a7f948ef
org.fcrepo.jms.identifier	The identifier portion of the URI of the changed resource		/test1234
org.fcrepo.jms.timestamp	Timestamp in epoch time (milliseconds since January 1st, 1970)		1519419333657
org.fcrepo.jms.baseURL	The base portion of the identifiers URI.		http://localhost:8080/rest
org.fcrepo.jms.resourceType	A comma separated list of URIs identifying the types that describe the resource that changed.		http://www.w3.org/ns/ldp#Container,http://fedora.info/definitions/v4/repository#Resource, http://fedora.info/definitions/v4/repository#Container,http://www.w3.org/ns/ldp#RDFSSource
org.fcrepo.jms.eventType	A comma separated list of URIs identifying the event types that describe the resource that changed.	http://fedora.info/definitions/v4/event#ResourceCreation http://fedora.info/definitions/v4/event#ResourceModification http://fedora.info/definitions/v4/event#ResourceDeletion	http://fedora.info/definitions/v4/event#ResourceCreation, http://fedora.info/definitions/v4/event#ResourceModification
org.fcrepo.jms.userAgent	The type of client user agent that was used to effect the change to the resource.		Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/63.0.3239.132 Safari/537.36

Message Body

The format of the body is [JSON-LD](#).

Below is an example of a message emitted on resource creation.

```
{
  "id": "http://localhost:8080/rest/test1234",
  "type": [
    "http://www.w3.org/ns/ldp#Container",
    "http://fedora.info/definitions/v4/repository#Resource",
    "http://fedora.info/definitions/v4/repository#Container",
    "http://www.w3.org/ns/ldp#RDFSSource",
    "http://www.w3.org/ns/prov#Entity"
  ],
  "isPartOf": "http://localhost:8080/rest",
  "wasGeneratedBy": {
    "type": [
      "http://fedora.info/definitions/v4/event#ResourceCreation",
      "http://fedora.info/definitions/v4/event#ResourceModification",
      "http://www.w3.org/ns/prov#Activity"
    ],
    "identifier": "urn:uuid:d0f9d030-8fac-474c-882c-0858a7f948ef",
    "atTime": "2018-02-23T20:55:33.657Z"
  },
  "wasAttributedTo": [
    {
      "type": "http://www.w3.org/ns/prov#Person",
      "name": "bypassAdmin"
    },
    {
      "type": "http://www.w3.org/ns/prov#SoftwareAgent",
      "name": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/63.0.3239.132 Safari/537.36"
    }
  ],
  "@context": {
    "prov": "http://www.w3.org/ns/prov#",
    "foaf": "http://xmlns.com/foaf/0.1/",
    "dcterms": "http://purl.org/dc/terms/",
    "xsd": "http://www.w3.org/2001/XMLSchema#",
    "type": "@type",
    "id": "@id",
    "name": {
      "@id": "foaf:name",
      "@type": "xsd:string"
    },
    "identifier": {
      "@id": "dcterms:identifier",
      "@type": "@id"
    },
    "isPartOf": {
      "@id": "dcterms:isPartOf",
      "@type": "@id"
    },
    "atTime": {
      "@id": "prov:atTime",
      "@type": "xsd:dateTime"
    },
    "wasAttributedTo": {
      "@id": "prov:wasAttributedTo",
      "@type": "@id"
    },
    "wasGeneratedBy": {
      "@id": "prov:wasGeneratedBy",
      "@type": "@id"
    }
  }
}
```

Below is an example of a message emitted on resource update.

```
{
  ...
  "wasGeneratedBy": {
    "type": [
      "http://fedora.info/definitions/v4/event#ResourceModification",
      "http://www.w3.org/ns/prov#Activity"
    ],
    "identifier": "urn:uuid:d0f9d030-8fac-474c-882c-0858a7f948ef",
    "atTime": "2018-02-23T20:55:33.657Z"
  },
  ...
}
```

Below is an example of a message emitted on resource deletion.

```
{
  ...
  "wasGeneratedBy": {
    "type": [
      "http://fedora.info/definitions/v4/event#ResourceDeletion",
      "http://www.w3.org/ns/prov#Activity"
    ],
    "identifier": "urn:uuid:d0f9d030-8fac-474c-882c-0858a7f948ef",
    "atTime": "2018-02-23T20:55:33.657Z"
  },
  ...
}
```

See :

[How to Inspect Event Messages Generated by Fedora](#)