

# RESTful HTTP API - Fixity

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Request URI: `/path/to/some/resource/fcr:fixity`

Methods: GET

GET

## Get the fixity report for an object

Checking fixity requires retrieving the content from the binary store and may take some time.

### Request Headers:

ACCEPT

application/ld+json, application/n-triples, application/rdf+xml, application/x-turtle, application/xhtml+xml, application/xml, text/html, text/n3, text/plain, text/rdf+n3, text/turtle

### Example:

```
curl -H "Accept: text/turtle" "http://localhost:8080/rest/path/to/some/resource/fcr:fixity"
```

### Response (fixity success):

Status: 200 OK

Headers:

Content-Type: text/turtle

Body:

```
@prefix premis: <http://www.loc.gov/premis/rdf/v1#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://localhost:8080/rest/path/to/some/resource>
  premis:hasFixity <http://localhost:8080/rest/path/to/some/resource#fixity/1494431303920> .

<http://localhost:8080/rest/path/to/some/resource#fixity/1494431303920>
  rdf:type          premis:Fixity ;
  rdf:type          premis:EventOutcomeDetail ;
  premis:hasEventOutcome "SUCCESS" ;
  premis:hasMessageDigestAlgorithm "SHA-1" ;
  premis:hasMessageDigest <urn:sha1:ca3392593351ef8e6554bdabfbd8bdc1002ecb6f> ;
  premis:hasSize        "1277811"^^<http://www.w3.org/2001/XMLSchema#long> .
```

### Response (fixity failure):

```
Status: 200 OK
Headers:
Content-Type: text/turtle

Body:

@prefix premis: <http://www.loc.gov/premis/rdf/v1#> .
@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

<http://localhost:8080/rest/path/to/some/resource>
  premis:hasFixity <http://localhost:8080/rest/path/to/some/resource#fixity/1494445619308> .

<http://localhost:8080/rest/path/to/some/resource#fixity/1494445619308>
  rdf:type          premis:Fixity ;
  rdf:type          premis:EventOutcomeDetail ;
  premis:hasEventOutcome "BAD_CHECKSUM" ;
  premis:hasEventOutcome "BAD_SIZE" ;
  premis:hasMessageDigestAlgorithm "SHA-1" ;
  premis:hasMessageDigest <urn:sha1:1d3d03c656cf0a944c393bf9257c6cecd5a5263f> ;
  premis:hasSize        "1287509"^^<http://www.w3.org/2001/XMLSchema#long> .
```

#### Status:

200

OK

404

Resource not found

### Default Fixity Algorithm

When ingesting a binary resource, one or more checksums may be provided, see [API reference](#) (POST example 4b). The supported algorithms are: SHA-1, SHA-256 and MD5.

By default, the algorithm used by the Fixity service is SHA-1. However, that may be changed to one of the other supported algorithms by configuring the property: `fedoraconfig:defaultDigestAlgorithm`. See [API reference](#) (PATCH example 2).