

# What are the Server Managed Triples

Server managed triples (SMTs) are the portion of a Resource's triples which are generated and/or constrained by the server, and may in some cases be used by the implementation for inspection and identification of said Resources. They are related to [LDP-server-managed triples](#). Clients may not modify these properties directly via PUT/PATCH/POST requests. Instead, they are often generated as a side effect of other actions such as creating a container or a binary, or adding a child resource.

Clients may request to omit server managed triples from RDF responses from the server using the "Prefer: return=representation; omit=<http://fedora.info/definitions/v4/repository#ServerManaged>" header as described in the [RESTful API documentation](#)

When committing changes to the server via PUT, clients may choose not to provide the server managed triples for the resource by including the "handling=lenient; received="minimal" header as described in the [RESTful API PUT documentation](#), which is based on <https://tools.ietf.org/html/rfc7240#section-4.4>

## Server Managed Predicates

The following predicates are considered to be server managed (see the list of namespace prefixes later in the document):

- **ldp:contains**
- **premis:hasMessageDigest**
- **premis:hasFixity**
- All predicates in the **fedora** namespace
- All predicates in the **memento** namespace

Additionally, clients may not specify a **ldp:hasMemberRelation** relationship on a [Direct](#) or [Indirect Container](#) with a server managed predicate as the object, as this would cause the inappropriate creation of server managed triples. Similarly, relationships generated by Direct/Indirect containers cannot be deleted by clients.

## Server Managed Types

In addition to predicates, the following URIs are considered server managed when provided as the object of an **rdf:type** property:

- <> rdf:type **fedora:\*** (any type in the **fedora** namespace)
- <> rdf:type **memento:\*** (any type in the **memento** namespace)
- <> rdf:type **ldp:\*** (any type in the **ldp** namespace)

## Relaxable Properties

A subset of SMTs can be modified by clients, but only when the server is put into "relaxed" mode. This concept is described in more detail in the article [How to allow user-updates to certain server managed triples](#). The following properties fall into this category:

- **fedora:lastModified**
- **fedora:lastModifiedBy**
- **fedora:created**
- **fedora:createdBy**

## Server Generated Properties

Some properties are generated by the server, but not managed thereafter. As such, they may be directly overridden by the clients after creation, including:

- **premis:hasSize**
- **ebucore:hasMimeType**
- **ebucore:filename**
- **iana:describedby** (an instance of this property is generated for binaries and cannot be removed, but clients may add additional instances of this property)

## Namespaces Referenced in this Document

Prefix	Namespace
fedora	<a href="http://fedora.info/definitions/v4/repository#">http://fedora.info/definitions/v4/repository#</a>
premis	<a href="http://www.loc.gov/premis/rdf/v1#">http://www.loc.gov/premis/rdf/v1#</a>
ldp	<a href="http://www.w3.org/ns/ldp#">http://www.w3.org/ns/ldp#</a>
rdf	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
memento	<a href="http://mementoweb.org/ns#">http://mementoweb.org/ns#</a>

iana	<a href="http://www.iana.org/assignments/relation/">http://www.iana.org/assignments/relation/</a>
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