

Triples in the Resource Index

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Triples in the Resource Index

The resource index stores system and user-controlled metadata about each object in the repository in the form of RDF triples. The number and type of triples stored depends on the content of the object. This document describes the triples that may exist in the resource index for a given object. The color of each row indicates how many of each kind of RDF triple can be expected. See the key on the right.

Cardinality Key
Zero or more
Zero or one
Exactly one
One or more

Namespaces Used

For brevity, the URIs used in this document are shown in abbreviated form. To determine the unabbreviated form of any such URI, replace the **Prefix** with the associated **Namespace URI** below.

Prefix	Namespace URI
dc:	http://purl.org/dc/elements/1.1/
fedora-model:	info:fedora/fedora-system:def/model#
fedora-view:	info:fedora/fedora-system:def/view#
rdf:	http://www.w3.org/1999/02/22-rdf-syntax-ns#

Breakdown

Base Triples

The following triples will exist for any object, irrespective of its Datastream content.

Subject	Predicate	Object	Cardinality
info:fedora/\$PID	fedora-model:createdDate	(date created in UTC)	Exactly One
info:fedora/\$PID	fedora-view:lastModifiedDate	(date modified in UTC)	Exactly One
info:fedora/\$PID	fedora-model:state	fedora-model:Active fedora-model:Inactive fedora-model:Deleted	Exactly One
info:fedora/\$PID	fedora-model:owner	(not used)	Exactly One
info:fedora/\$PID	fedora-model:label	(any string)	Exactly One

Dublin Core Triples

Every object in Fedora has a Dublin Core ("DC") Datastream. The following triples are derived from its content, which may consist of any number of each of the 15 unqualified Dublin Core elements. If unprovided at ingest, the DC Datastream will be automatically created with minimal information (a *dc:title* and a *dc:identifier*).

Subject	Predicate	Object	Cardinality
info:fedora/\$PID	dc:title	(any string)	One or More
info:fedora/\$PID	dc:identifier	(any string)	One or More
info:fedora/\$PID	(any other dc predicate)	(any string)	Zero or More

RELS-EXT and RELS-INT Triples

Subject	Predicate	Object	Cardinality
info:fedora/\$PID	(any non-reserved predicate)	(any URI or literal)	Zero or More

Content Model Architecture Triples

Note: If not explicitly provided the Fedora Repository will assume there is a `fedora-model:hasModel` relation asserted from a Data Object to a system-supplied base CModel Object satisfying the cardinality constraint. This relation should be explicitly stated in the REL-EXT Datastream as a recommended practice. Also note that, while CModel, SDef, and SDep objects may be created without asserting their respective relations, they will not perform their functions without them.

Note: In Fedora 3.0, though permitted, it is not recommended that one SDep object be used to deploy a service for more than one CModel-SDef pair. Future versions of Fedora are likely to provide better support for this configuration.

Subject	Predicate	Object	Cardinality
info:fedora/\$PID	fedora-model:hasModel	info:fedora/\$CMODEL_PID	One or More
info:fedora/\$CMODEL_PID	fedora-model:hasService	info:fedora/\$SDEF_PID	Zero or More
info:fedora/\$SDEF_PID	fedora-model:isDeploymentOf	info:fedora/\$SDEF_PID	Zero or More
info:fedora/\$SDEF_PID	fedora-model:isContractorOf	info:fedora/\$CMODEL_PID	Zero or More

Datastream Triples

Subject	Predicate	Object	Cardinality
info:fedora/\$PID	fedora-view:disseminates	info:fedora/\$PID/\$DSID	Exactly One
info:fedora/\$PID/\$DSID	fedora-view:disseminationType	info:fedora/*/ \$DSID	Exactly One
info:fedora/\$PID/\$DSID	fedora-view:mimeType	(any mime type string)	Exactly One
info:fedora/\$PID/\$DSID	fedora-view:lastModifiedDate	(date modified in UTC)	Exactly One
info:fedora/\$PID/\$DSID	fedora-model:state	fedora-model:Active fedora-model:Inactive fedora-model:Deleted	Exactly One
info:fedora/\$PID/\$DSID	fedora-view:isVolatile	(true if R or E, false if M or X)	Exactly One

Calculating Triples/Object

You can use the following table to estimate the number of triples for each kind of object in your Fedora repository.

Calculation Method	# Triples
Every object automatically gets the following triples: • Base: 6 • Dublin Core (dc:title and dc:identifier): 2 • Content Model Architecture (fedora-model:hasContentModel): 1 • Datastream Triples (for DC): 6	15
If the DC datastream has any elements besides the standard dc:title and dc:identifier, add 1 for each additional element.	
If the object has a RELS-EXT and/or a RELS-INT datastream, add 7 , then add 1 for each statement asserted therein (except fedora-model:hasContentModel which has been counted above).	
For each additional datastream, add 7 .	
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