1   Basic Data Model

For the purpose of understanding and using the NSDL Repository API, it is important to understand the basic data model

where the `subject' is the object itself, `predicate' is the property name, and the `object' is some literal v

a complete listing of all API methods supported, as well as more detailed

```
      [</ns:command>]
            ...
</properties>

<data>
  [<ns:command>]
    <(datastream)>...
```

Commands Properties, relationships, and datastreams present in

```
14      </relationships>
```

OTHER. **If a match is found, then the** `addResource` **call will succeed, but will not actually add a new resource. It will modify the existing, matching resource by adding any**

2.3 Reads

The basic API for reading object content is `get`. Other calls exist outside of the core API that nd, fetch, or format content from NDR objects for specialized purposes such as `describe`. For a complete listing, refer to our extended APIAPI

2.4.2

2.4.4 modifyMetadataProvider

3.2   Authentication

The current NDR authentication protocol (1.0) uses signed HTTP headers and public key cryptography to verify the identity of the agent and the veracity of the contents of the API request (if desired). The process is sketched out below and explained in

3.2.2 Header Signature

Given a canonical header, an agent's private key, and an agent's identity (i.e. its handle), an HTTP header may be signed by:

Calculate an SHA1 hash of the

```
accept: text/xml,application/xml,text/plain
accept-encoding: gzip,deflate
accept-charset: utf-8
keep-alive: 300
connection: keep-alive
x-nsdl-date:
```

logically modifying the contents of the aggregation. Because

Object	Authorization
Resource	
Metadata	$A_m!$

DC (Agent) Contains Dublin core

B.2   describe

Provides information about the content dn   nn

B.5   ndAgent

Finds an Agent object given a request XML parameter containing an identi er as a `<identifier type=?>` property. Returns response XML containing

Resource diagram

Aggregator

Metadata

+ aggregator   1..*

memberOf

Resource

+identifier:Property