

National Data Network The Basics

www.nationaldatanetwork.org



What is the NDN?

The National Data Network is an environment which facilitates the secure sharing of Information Resources.

Information resources can be documents, datasets, analysis/presentation tools or other related services.

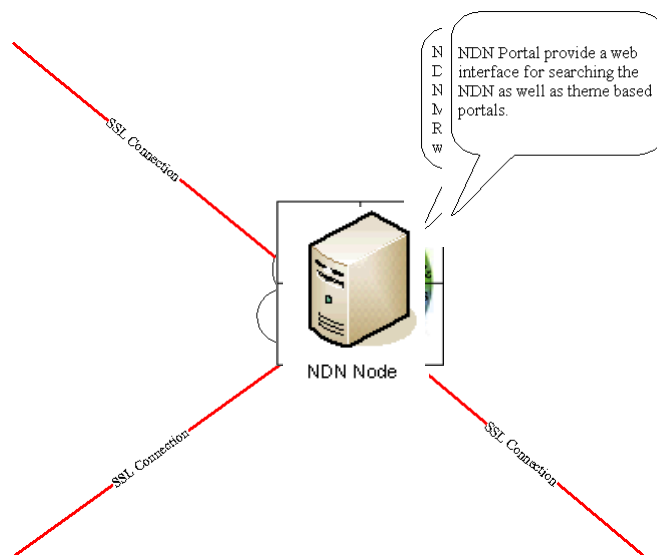
Custodians are individuals or organisations who make information resources visible/accessible via the NDN.

What is the NDN?

The NDN allows Custodians to:

- control which of their information resources are viewable.*
- set the security access appropriate to their information resource(s).*
- set the terms and conditions of use for their information resources.*
- expose metadata aiding discovery of the information Resource(s).*

What is the NDN?



What is the NDN?

The NDN is an Internet-based distributed network comprised of:

- *a central catalogue of entries (metadata) describing information resources on the network.*
- *Nodes for Custodians to register users, upload metadata, determine access rights, and hold information resources.*
- *a facility for Users to search the central catalogue.*
- *a facility for Users who have appropriate access rights to access (e.g. download) information resources.*

What is the NDN?

The NDN is being developed using open source software to minimise participation costs.

The NDN uses metadata, i.e. data about data, to support searching and provide detail on information resources.

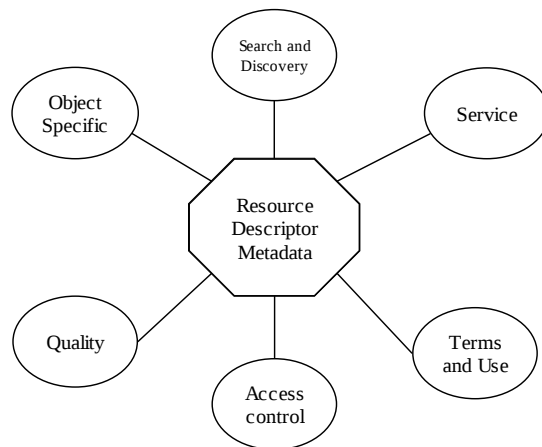
Metadata can include intellectual content descriptions, quality descriptions, and security or rights descriptions.

The NDN promotes knowledge management within and across organisations.

National Data Network

- National Data Network Data Management
 - Search and Discovery metadata
 - Object specific metadata
 - Service metadata
 - Quality metadata
 - Terms and Use metadata
 - Access control metadata

National Data Network



National Data Network

- Search and Discovery metadata
 - Uses Dublin Core Extended metadata set Plus
 - 50 Dublin Core elements
 - 3 NDN elements
 - 1 AGLS element for compatibility with AGLS
 - 10 mandatory fields
 - Basic search does a text search across the Dublin Core metadata fields Plus
 - Discovery metadata is required for all Information Resources exposed by the NDN

National Data Network

- Object Specific metadata
 - This metadata is specific to the information resource that is exposed
 - It provides more information regarding aspects of the Information Resource than is provided by the Discovery metadata
 - The format of this type of metadata can be:
 - Link to website with the information
 - A file attached to the Information Resource

National Data Network

- Service metadata
 - Metadata that is required for the access to a specific Information resource that is provided by a service
 - Types:
 - URL to a website that provides a service
 - WSDL to describe a SOAP web service
 - URL to a Restful web service
 - NDN Nodes can protect SOAP web service endpoints by way of the NDN Gateway (a SOAP web service router)

National Data Network

- Quality metadata
 - Information Resources of a Statistical nature will need to provide quality metadata
 - This metadata will allow users of the Information Resources to assess if the data is fit for their purposes
 - This Quality metadata will be based on:
 - OECD Quality metadata standard for Statistical data
 - 19000 Quality metadata standard for Geospatial data

National Data Network

- Terms and Use metadata
 - This metadata is to define the conditions under which the user of the Information Resource can use the Information Resource
 - These conditions may be:
 - Acceptance of Creative Commons license
 - Agreement to pay of use of the Information Resource
 - Agree to abide you a click here agreement

National Data Network

- Access control metadata
 - The custodian is provided with a set of 3 ACLs
 - **S** – restrict searching of the Information resource to a limited audience
 - **A** – restrict acquisition of the Information resource to a limited audience
 - **V** – restriction of the viewing of Objects Specific metadata to a limited audience.
 - This metadata data is optional. The default values are for Public availability

National Data Network

Questions?

Contact

Wayne Richards

wayne.richards@abs.gov.au

