

# Introduction to the ARDC DOI Service

## Service Scope

The DOI service:

- Is for publicly-funded Australian research organisations or data centres relevant to Australian research, such as those run by Government agencies or Universities.
- May be used to assign DOIs to data and associated workflows, software, models, and grey literature, provided the citable item has the required metadata.
- Enables an organisation to maximise the benefits of having their data citations tracked through citation indices.
- Creates a persistent link that points to the institutional repository or other location as set out in the metadata ([see example](#)).

### Resource types in scope:

- Research datasets and collections, associated workflows, software and models
- Grey literature such as theses, reports, unpublished conference papers, newsletters, creative works, preprint journal articles, technical standards and specifications for which the institutional repository is the primary publication point

### Resource types out of scope:

- Published peer reviewed journal articles, ephemera, teaching and learning materials and book chapters



- The ARDC provides the mechanism to allow minting, resolution and updating of DOIs through the DataCite infrastructure.
- ARDC or DataCite does not manage the DOIs themselves.
- Processes and policies need to be put in place by those utilising the service to ensure that appropriate maintenance practices underpin persistence.

The DOI service is available as:

- **Machine to Machine (M2M) service** - it is a set of RESTful (*Representational State Transfer*) web services that allow registered clients to mint, update & retrieve Digital Object Identifiers (DOIs) that identify research data and grey literature. By embedding the service within data management workflows, clients are able to treat datasets as citeable unique objects in the same way as DOI identified publications.
- **Manual minting service** - a service available via [DataCite Fabrica](#) user interface. This interface not only allows you to manually mint new DOIs and update DOI metadata, it also allows users to view a listing of all the DOIs you have minted through the DOI service, either via the API or the interface.

The service ensures that a standard level of metadata is always associated with ARDC DOIs through the use of a mandatory metadata schema, while also allowing clients to further enrich descriptions through the use of non-mandatory metadata schema elements.