

RIF-CS to DCI crosswalk

ARDC has implemented a process to make available Research Data Australia records to the Data Citation Index (DCI). Research Data Australia contributors are able to opt-in to this service. For more information on the process, see [Getting Started with the Data Citation Index](#).

This page provides information on the metadata transform or cross-walk, from RIF-CS to DCI schema (see Table 1 and associated notes in Appendix 1). It is intended to complement and augment the guidance provided in the [Research Data Australia Content Providers Guide](#). Records that comply with best practice and incorporate the DCI specific guidance provided below, should validate against the DCI schema. It is preferred that in the RIF-CS citationInfo element, the citationMetadata type format is used. This will ensure the DCI mandatory elements and data citation are accurately represented in the DCI. The screenshot below shows an "exemplar" record in DCI (Fig. 1).

Data Source Administrators (DSAs) can access a [simple web service](#) that enables the preview of records in their data source that have been transformed to the DCI metadata format using the mapping. To use the web service, in the [Production](#) or [Demo](#) environment, you need to have DSA permissions.

Fig 1: Exemplar record in the Data Citation Index

The screenshot shows a record in the Web of Science interface. The title is "Rottnest Island lakes, swamps and coastal bird counts December 1981 to September 2007". The author is Denis Saunders. The record is from the CSIRO Data Access Portal, with a DOI of http://dx.doi.org/10.4225/08/572C4DB0E05C2. It was viewed on 01 Jun 2016, published in 2016, and is version v3. The abstract describes bird counts on Rottnest Island. Keywords include "Rottnest Island Birds; Transequatorial Migratory Wading Birds; ecology; Biological Sciences". The document is classified as a "Data set" in English. The accession number is DRCI.DATA2016183009715526. Geospatial information is provided in a table below.

Descriptor Term
northlimit=-31.99
southlimit=-32.0003
westlimit=115.434
eastLimit=115.56
projection=WGS84

Time: 1981 - 2007

Table 1. RIF-CS to DCI transform v.3

▼ [Click here to expand...](#)

* indicates the element is required by DCI

indicates the element will be used to populate the citation element in DCI using the following convention: *Author/s (Year): Title. Source. Source URL*

Note: where more than one RIF-CS element can be used to populate a DCI element, the options are given in preferred order.

Follow the hyperlink to see additional DCI encoding advice about the RIF-CS element.

DCI element name	DCI description	Maps to RIF-CS element
Record ID*	The unique and persistent identifier for the record as it appears in the repository /database. This will be used to identify changed/updated records in future updates received	registryObject:key
Date provided*	Date record was extracted for Clarivate Analytics	System generated
Repository Name*	Name of repository/database from which record was extracted	registryObject@Group This will be used to associate the record with the correct repository record
Owner*	Owner of the data repository/database	registryObject@Group
Author*#	Names of the authors/persons/groups /organization responsible for creating the data - the people who should gain credit from the data citation. Typically one or more name strings, ideally parsed into Lastname, Forename, Suffix. Group Authors can be included	registryObject:collection:citationInfo: citationMetadata:contributor OR relatedObject:Party:name: relationType=IsPrincipalInvestigatorOf OR relatedObject:Party:name: relationType=author OR relatedObject:Party:name: relationType=colInvestigator OR relatedObject:Party:name: relationType=isOwnedBy OR relatedObject:Party:name: relationType=hasCollector OR registryObject@Group
Author role	One role per author as an attribute of the Author element. Role in creating the data resource, e.g., Editor, Creator, Curator, Repository Manager, Principal Investigator etc. If possible indicate the role to be applied across all authors if not available on individual records	relatedObject:Party:relation (where Type is one of those specified under Author above)

Researcher ID	ResearcherID (from http://www.researcherid.com) or ORCID ID if available	registryObject:Party:identifier:type=[any] (where the party is mapped to "Author" in the citation) any party identifier will be transferred
Author address	One address per author if available, with identification of which author it refers. Ideally provide parsed into Organization, Address, City, ZIP/Postcode, Country. If unable to provide parsed, provide complete address string with elements separated by commas or line breaks	relatedObject:Party:physical address relatedObject:Party:electronic address
Title*#	Title of the data resource featured in the record. This could be a data study, data set, or other data resource. Data studies with multiple data sets should ideally be supplied with the data sets as separate records referencing the parent study; if this is not possible, a combined record for the data study can include references to the data sets used in the study.	registryObject:collection:name (Title as displayed in RDA)
Source URL*#	Full URL/DOI or other web URI which can be used to link to the resource	registryObject:collection:citationInfo: citationMetadata:identifier: type="doi" OR registryObject:collection:citationInfo: citationMetadata:identifier: type="handle" OR registryObject:collection:citationInfo: citationMetadata:identifier: type="uri" OR registryObject:collection:citationInfo: citationMetadata:identifier: type="purl" OR registryObject:collection:identifier:type="doi" OR registryObject:collection:identifier:type="handle" OR registryObject:collection:identifier:type="uri" OR registryObject:collection:identifier:type="purl" OR registryObject:collection:citationInfo: citationMetadata:identifier: type="url" OR registryObject:collection:location:address: electronic:type="url"

Source*#	Publisher/distributor of the data resource. This may be the repository itself or could be a third party supplier or institution; also include any recognised abbreviation of the publisher if available.	registryObject:collection:citationInfo:citationMetadata:publisher OR registryObject@Group
Year*#	A publication year for the data is required to enable citation tracking. Provide either the: Date the data resource with the given title was created by the Author(s) - not the date provided to Clarivate Analytics or Date the data resource with the given title was deposited in the online collection	registryObject:collection:citationInfo:citationMetadata:date:type= "publication date" OR registryObject:collection:citationInfo:citationMetadata:date: type="issued" OR registryObject:collection:citationInfo:citationMetadata:date:type= created OR registryObject:collection:dates:type=issued OR registryObject:collection:dates: type=available OR registryObject:collection:dates: type=created OR registryObject:Collection@dateModified OR registryObject: Collection@dateAccessioned OR YYYY the record was ingested into RDA
Abstract*	Description of the digital resource	registryObject:collection:description:type=" full" AND/OR registryObject:collection:description:type=" brief" Where present, the types below will also be transformed registryObject:collection:description:type=" SignificanceStatement" registryObject:collection:description:type=" Notes" registryObject:collection:description:type=" Lineage"
Parent record reference	ID of parent record (E.g. if dataset is related to a study etc.) and the parent /child are provided as a separate records	registryObject:relatedObject:key: relationType=isPartOf
Version	Version identifier for the version of the data	registryObject:collection:citationInfo:citationMetadata:version

Rights/ Licensing	Any rights restriction or licensing statements for the data (eg CC)	registryObject:collection:rights: type=rightStatement AND registryObject:collection:rights: type=accessRights AND registryObject:collection:rights:type=licence
Language	Language of the data set in the repository	Default to English
Author keywords	Any author keywords provided by the data creator to describe the data	registryObject:collection:subject
Geospatial data	Geographical location of the study, including country, or geospatial coordinate data	registryObject:coverage:spatial
Time	Time period relating to the data	registryObject:coverage:temporal
Methodology	Method employed in obtaining the data	registryObject:collection:relatedInfo:type="reuseInformation"
Named person	Personal or organisational names relating to the subject of the data	registryObject:collection:subject:type="AU-ANL:PEAU" AND registryObject:collection:subject:type="orcid"
Grant No.	Grant number(s)	registryObject:activity:identifier[@type='arc' or 'nhmrc'] (where relation Type =isOutputOf)
Funding organisation	Funding organisation(s)	registryObject:activity:party:title (where relation Type =isFundedBy AND where activity relation Type=isOutputOf)
Citations	Data relating to the bibliographic citations and references associated with the data resource. If possible bibliographic fields should be sent separately, but a concatenated reference is also acceptable. PubMedID can be provided as a substitute for a full citation	registryObject:collection:relatedInfo:type="publication"

Appendix 1. Notes to clarify and optimise RIF-CS encoding for the Data Citation Index

✓ [Click here to expand...](#)

RIF-CS Group

- Displays in DCI as "Repository Name"
- Displays in DCI as "Source" where citationInfo:citationMetadata:publisher is not provided
- "Source" will be used to populate the Publisher element in the DCI citation statement where citationInfo:citationMetadata:publisher is not provided
- "Repository Name" is used to link all provider records to the appropriate DCI repository record.

RIF-CS Related Object (Parties)

- The DCI information model does not provide for separate records for related parties, activities and services. So, where citationMetadata is not provided in the RIF-CS, related Parties of specified Types are used to populate the required "Author" element in DCI.
- As this element is used to form the citation statement in DCI, care should be taken to select the appropriate Type for each related Party so that only those who should be credited in the citation statement are included.

- The accepted Types are documented in the transform table.

RIF-CS Related Info (type=publication)

- Displays in DCI as "Citations". Do not confuse with RIF-CS Citation Information.
- While this element is optional in DCI, it is highly recommended that this information be provided where possible as it allows Clarivate Analytics to create bi-directional links between a record in the DCI to records for related publications held elsewhere in the Web of Science suite of products. For users, this enables easy navigation between related resources in the Web of Science.
- Where possible, provide a PubMedID for a related publication as this is sufficient information for Clarivate Analytics to link to a related publication. Otherwise, include a fullCitation for the related publication as a Note in the relatedInfo element and choose relation type=isCitedBy as per the (fictitious) example below.
- <relatedInfo type="publication">
- <identifier type="DOI">10.1016/j.amjmed.2014.06.036</identifier>
- <title>Acute porphyrias in the USA: features of 108 subjects from Porphyria Consortium</title>
- <relation type=isCitedBy</relation>
- <notes>Bonkovsky, HL, Maddukuri, VC, Yazici, C. (2014) Acute porphyrias in the USA: features of 108 subjects from Porphyria Consortium. American Journal of Medicine, vol 16, 2014, p.1-6</notes>
- </relatedInfo>

RIF-CS Citation Information

- Displays in DCI as "How to cite this resource". Do not confuse with DCI Citations.
- Where it is provided, citationMetadata is the preferred source of content for the DCI citation elements including: Author (Year) Title. Publisher. Identifier.
- Where citationMetadata is not provided, the elements making up the citation will be populated according to the transform table. Note that the Publisher will be inferred from RIF-CS Group.