

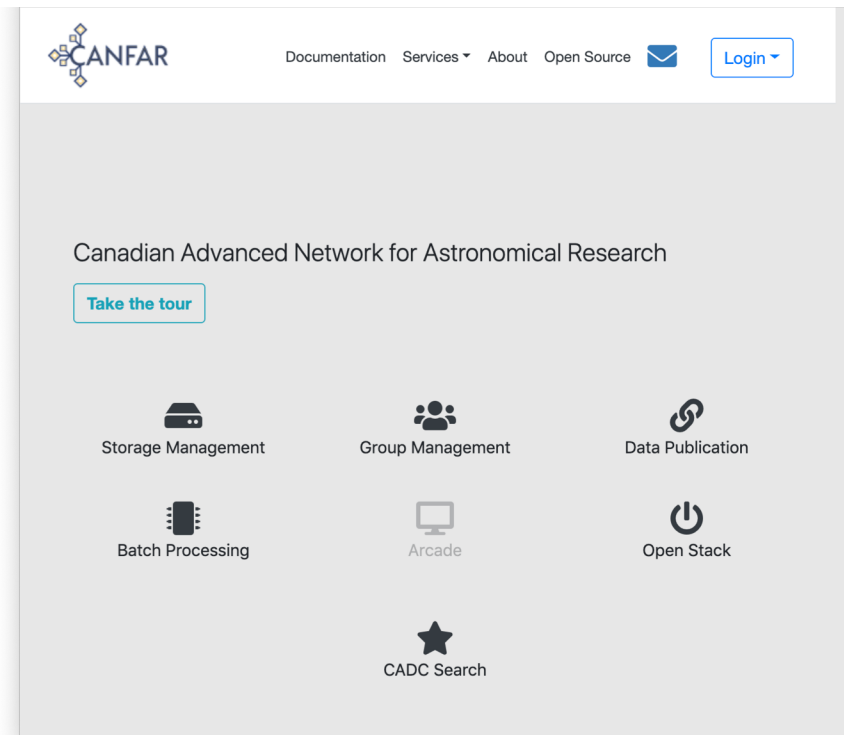
A Self-Serve DOI Service in CADC/CANFAR Built With IVOA Services

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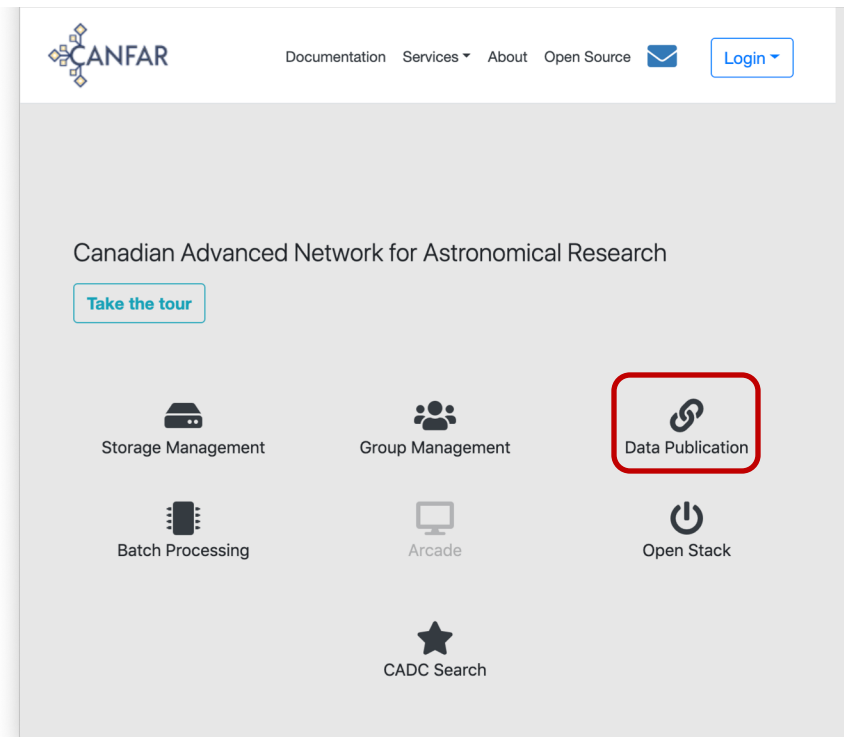
DOI Service Overview

- Motivation: Responding to the express needs of our user community
- Guiding principals:
 - Data organisation completely in the hands of the user
 - No metadata other than the DOI to the paper itself
- A CANFAR service
 - A science platform for Canadian astronomy
 - In operation since 2011
 - Re-using the user storage service and group management service
- CADC is the operations centre for CANFAR
 - Authorized by DataCite Canada to issue DOI's
- Manually minting DOIs since 2013



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- Self-serve service since March 2019



Demo ...

- DataCite view

<https://search.datacite.org/works?data-center-id=cisti.cadc>

Workflow

1. Authenticate
2. Request
 - generate a DOI
 - create the directory structure and DataCite XML
 - create the RW group and add the user to it
 - Create DOI-reviewer user account and a read group for that account
3. Upload and organise data
4. Give publisher the DOI-reviewer account and password
5. Publish
 - Step 1: Lock data directory and make it publicly readable
 - Step 2: Publish to DataCite
6. Augment with Publication DOI

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- The CANFAR DOI self-service

<https://www.canfar.net/en/>

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 - Enables the self-serve
- Service dynamically generates landing pages from DataCite XML document
 - No duplication of metadata



Using VOspace

- Data organisation as a directory structure in user's hands
- Existing Group Management allows:
 - Service to create R/W and R groups
 - Requester to add R/W members
 - Allows CADC to create anonymous reviewer access account
- Extra attributes stored as node properties of top-level directory
 - The Journal Reference, DOI state and requesting user ID are stored as properties of the vospace nodes.

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- The CANFAR user storage service view

<https://www.canfar.net/storage/list/AstroDataCitationDOI/CISTI.CANFAR>