



OPEN SCIENCE
AND RESEARCH

PIDs and National PID Services

Nordic Workshop on Data Citation Policies and Practices
Helsinki, 23.11.2016

Esa-Pekka Keskitalo, National Library of Finland
esa-pekka.keskitalo@helsinki.fi



Message

- Use PIDs when you can.
- There is help available.
- PID is a responsibility.
- PIDs are evolving.

A PID Identifies a Resource



123 = XYZ

PID IS
A STRING

A "RESOURCE" CAN
BE MANY THINGS

PID Identifies the Sameness and the Difference

- It identifies a resource.
- It differentiates between resources.
- It shows that two resources are identical.
- It is a base of a link to a resource.

Names vs Addresses

- Identifiers are names.
- Names are not addresses.
- Addresses are not names.
- Addresses cannot manage duplicates.
- Addresses cannot manage handover.

A good identifier


- Globally unique
 - Persistent
 - Actionable
 - Given to a stable resource
- Achieved by
 - Standards
 - Good practices
 - Infrastructures

Orcid – Researcher Identifier

- Implementation in Finland facilitated by CSC.
- Provides researcher
 - a unique identifier and
 - a presence on the web.
- <http://orcid.org>

Toni Virtanen

ORCID ID

 orcid.org/0000-0001-5191-2438

Country

Finland

Other IDs

Scopus Author ID: 16317852800

ResearcherID: E-9181-2015

Education (2)

Sort

University of Helsinki: Helsinki, Finland

2011-06 to present

Doctor of Psychology (Institute of Behavioural Science)

Source: Toni Virtanen

Created: 2015-05-05

University of Helsinki: Helsinki, Finland

2003-08 to 2010-06-17

Master of Psychology (Institute of Behavioural Science)

Source: Toni Virtanen

Created: 2015-05-05

Works (17)

Sort

Alternative performance metrics and target values for the CID2013 database

2015 | conference-paper

DOI: [10.1117/12.2079100](https://doi.org/10.1117/12.2079100)

EID: 2-s2.0-84923684287

URL: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84923684287&partnerID=M...>

Source: Scopus to ORCID

Preferred source

CID2013: A database for evaluating no-reference image quality assessment algorithms

2015 | journal-article

DOI: [10.1109/TIP.2014.2378061](https://doi.org/10.1109/TIP.2014.2378061)

EID: 2-s2.0-84919897464

ISNI – International Standard Name Identifier

- Implementation underway at the National Library
- Complements Orcid
 - Artists and other non-researchers
 - Dead researchers
- May be assigned to organizations.

ISNI: 0000 0001 2147 8925

Name:

Gianson, Tobe

Hajj, Vera

IAnsson, Tuve

Janson, **Tove**

Janson, Tuve

Jānsone, T.

Jānsone, Tūve

Jansson, Tčve

Jansson (Tove)

Jansson, Tove Marika

Jansson, Tuve

Janssonová, **Tove**

Tove

Tove Janson

Tove Jansson (en finlandssvenska
serieskapare)

Tove Jansson (escritora, ilustradora, historietista y pintora finlandesa en idioma sueco)

Tove Jansson (finnische Fantasy-Schriftstellerin)

Tove Jansson (Finnish children's writer and illustrator)

Tove Jansson (Fins kunstschilder)

Tove Jansson (Finsk børnebogsforfatter og illustratør)

Tove Jansson (fińska pisarka)

Tove Jansson (scrittrice e pittrice finlandese)

Янссон, Т

Янссон (Т.М; 1914-2001)

Янссон, Туве

תּוֹבֵה יַאֲנָסוֹן

טובה ינסון

ינסון, טובה

توفي يانسون

تووه يانسون

يائسنن، توو

토베 안손

トーベ・ヤンソン

ヤンソン, トーベ

托芙.扬松

朵貝·楊笙

Dates:

1914-2001

DOI – Digital Object Identifier

- Prevalent in scientific publishing: many services only know DOIs
- Will be implemented by the <http://ojs.tsv.fi> journal platform
- Needs a registration agency, e.g. Crossref

URN – Uniform Resource Name

- A URN is a URI that identifies a resource by a name in a particular namespace.
- URN does not have a namespace of its own but uses existing, standard namespaces.

URNs Are Based on Existing ID Systems

- ISBN → URN:ISBN
 - ISBN:978-952-03-0282-5
 - URN:ISBN:978-952-03-0282-5
 - <http://urn.fi/URN:ISBN:978-952-03-0282-5>
- Other namespaces: ISSN, OID, UUID, etc.

NBN, a flexible namespace for URNs

- Administered by national libraries
- May be used for all kinds of identifying needs
- Get your own sub-namespace from the National Library, e.g. urn:nbn:jyu:...
- Make a URN:NBN: <http://urnsource-kk.lib.helsinki.fi/cgi-bin/urn.cgi>

Actionable = Resolved

- Urn.fi resolving service
- http://urn.fi/URN:NBN:FI:RAI-OdeonA228038_02 →
<http://www.doria.fi/handle/10024/66605>
- If you assign a URN, you must register it at urn.fi

Registration of URNs

- Must be done automatically
- New items and status changes
- Through a XML file
- Through Dspace REST API
- Other methods if needed

Development of URN Services

- Funded by the ATT Initiative
- Better documentation
- Easier implementation
- Robustness, resilience
- <https://www.kansalliskirjasto.fi/en/services/expert-services-of-data-description/urn>

In the Future

- Resilient PID resolution and management.
- Trivially easy PID services.
- More services based on PIDs.
- More PIDs around. They do not run out.

This document

<http://urn.fi/URN:NBN:fi-fe2016112129503>

<http://orcid.org/0000-0002-4411-8452>

Me