RDA

Recommendation on PID Kernel Information

The Challenge:

Global middleware infrastructure is insufficient for robust data identification, discovery, and use. While infrastructure is emerging within sub-ecosystems such as the DOI ecosystem of services purposed for data and literature objects (i.e., DataCite, CHORUS, CrossRef), in general the layers of abstraction that have made the Internet so easy to build on, is lacking for data especially for computer (machine) automated services. The PID Kernel Information recommendation wants to advance a small change to middleware infrastructure by injecting a tiny amount of carefully selected metadata into a Persistent ID (PID) record.

Produced by: PID Kernel Information WG

https://www.rd-alliance.org/groups/pid-kernel-information-wg

What is the solution?

The PID Kernel Information working group determined which from amongst thousands of relevant metadata elements are suitable to embed in the PID record. They produced a set of guiding principles, architectural considerations, use cases and a fundamental metadata schema to manage information in Persistent Identifier records for scalable middleware infrastructure and automated processes.
This recommendation lays out principles to guide in the identification of information suitable for inclusion in the PID record. The recommendation also includes a draft profile with illustrating examples and cases for adoption in practice.

What is the impact?

This carefully chosen and placed information has the potential to stimulate development of an entire ecosystem of third party services that can process the billions of expected PIDs and do so with more information at hand about an object (no need for costly link following) than just a unique ID.

Find out more about this Recommendation

July 2019