

A DNS Based Approach to Persistent Identification

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PURL URN Handle ARK







The 1990's













All problems in computer science can be solved by another level of indirection.

- David Wheeler

It is easier to move a problem around ... than it is to solve it.

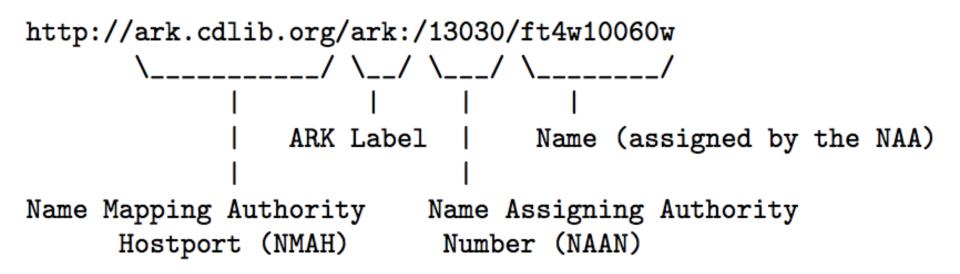
- RFC 1925, "Fundamental Truths of Networking"



Persistance is purely a matter of service, and is neither inherent in an object nor conferred on it by a particular naming syntax. The best an identifier can do is lead users to those services.

- John A. Kunze





From Kunze, John A., Towards Electronic Persistence Using ARK Identifiers, 2003,

https://confluence.ucop.edu/download/attachments/16744455/arkcdl.pdf



Excursion: The DOI



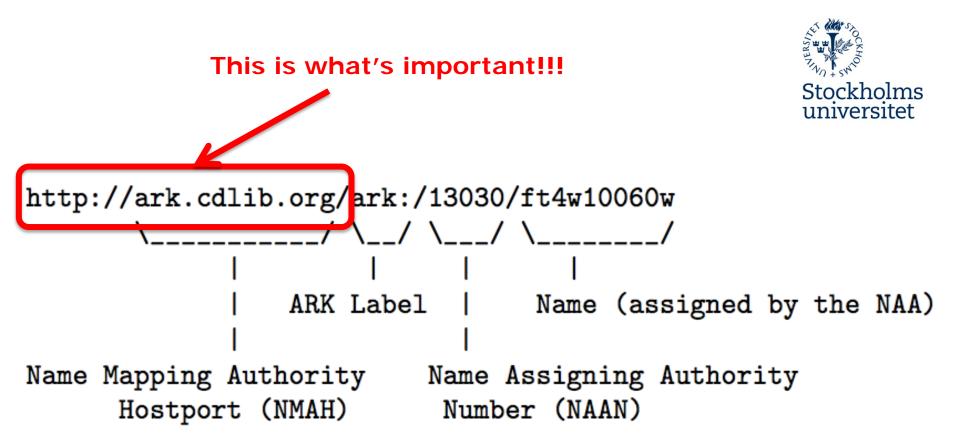
The DOI technology built on the CNRI handle system is only one piece of the persistence puzzle. An equally important piece is the social contract that all members agree to. Members must keep their content available and the URLs registered at CrossRef up to date.

http://www.crossref.org/10quarterly/quarterly_dec13.ht ml



Persistence is a function of organizations, not of technology; a persistent identifier system requires a persistent organization and defined processes.

- http://www.doi.org/factsheets/DOIHandle.html



From Kunze, John A., Towards Electronic Persistence Using ARK Identifiers, 2003,

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If your pants fit, why use suspenders?



Recognize that http and DNS are fundamental parts of our ecosystem Realize that DNS is sufficient to provide persistent, globally unique identifiers Redirect our efforts to improve, rather than supplement, DNS



The real domain authorities are going to be selected by some political processes that are not identified well enough, in any of the drafts we have considered ... There just ain't no way that us techies are going to be allowed to dictate domain structures.

- Einar Stefferud, namedroppers list, May 1984