



NSF Campus Cyberinfrastructure PI and Cybersecurity Innovation for Cyberinfrastructure PI Workshop

October 3-4 | Albuquerque, New Mexico

NSF Program: CC*

Program Area: Storage

Award Number: 1659310

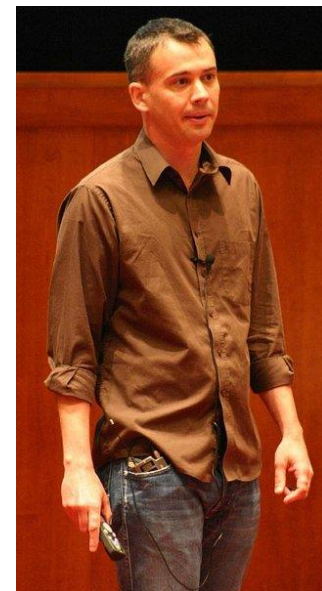
PI: Rob Quick

co-PIs: Larry Lannom (CNRI), Bridget Almes (Tufts)

Project Title: Robust Persistent Identifiers (RPID)

Project Goals:

- Stand up and support a robust PID testbed consisting of a linked handle service, data type registry, and APIs. This testbed will be responsive to data driven priorities in science and education.
- Stimulate and enable evaluation of powerful new complementary outputs of the Research Data Alliance.
- Provide packaged testbed software allowing others to easily set up a similar testbed environment.



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<https://rpidproject.github.io/rpid/>



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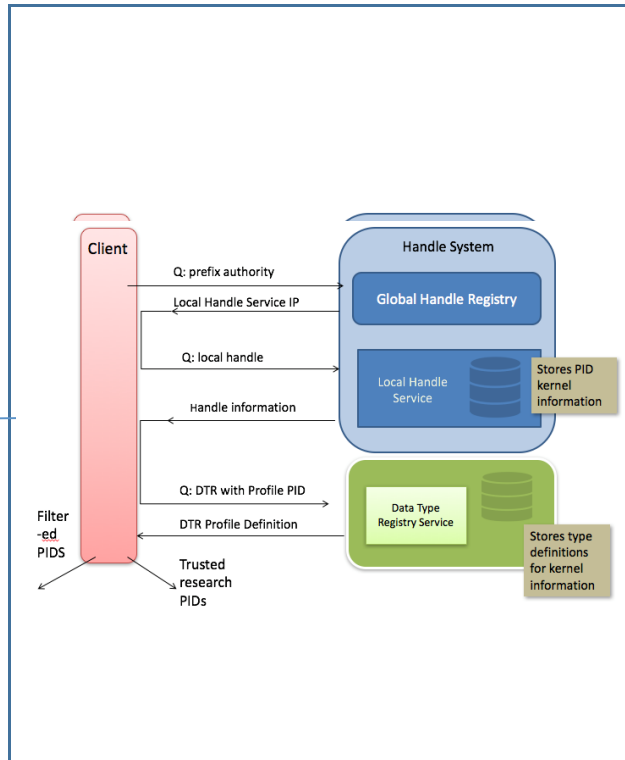
Quad Chart for: *Robust Persistent Identifiers*

Challenge:

- In a world of increasing PID use, we will soon be awash with billions of PIDs that all resolve to data objects using various inconsistent and unpredictable approaches, making it difficult to build higher level services that cross the various approaches.

Deliverables:

- Stand up and support a robust PID testbed.
- Package software associated with a testbed for easy reinstallation.
- Apply the RPID approach to leverage PID Kernel Information with a variety of diverse use cases.



Broader Impact:

- The advancements developed and tested here we believe have the transformative magnitude to stimulate an entire ecosystem of new discovery services for research data.

Metadata tag:

- <https://rpidproject.github.io/rpid/>
- *RPID Handle Service*
 - <http://rpid-handle.grid.iu.edu:8000/>
- *RPID Data Type Registry*
 - <http://rpid-dtr.grid.iu.edu:8080>
- *Need collaborators!*
- *Most development work being done by students in the Indiana University School of Informatics, Computing, and Engineering*