IETF WERIDS Working Group

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The Need for a New Protocol



- WHOIS (RFC 3912) has never been internationalized
- WHOIS has no data framework
 - Every service you query could present certain data differently
 - No standard for expressing dates or phone numbers, for example



The Need for a New Protocol



- WHOIS does not have capabilities to support differentiated access
 - All clients look the same
 - Difficult to give particular clients (law enforcement, security vendors) privileged access
 - "Privileged" might only mean faster responses or no rate limits

IETF WEIRDS (Web Extensible Internet Registration Data Service)

Chartered to:

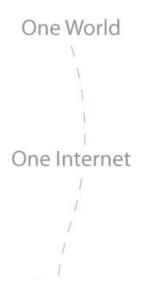


- Standardize a data framework
- Deliver objects encapsulated in that framework over a RESTful service over HTTP
- Generally use the requirements from CRISP (RFC 3707) as a guide
- Produce a simple, easy-to-implement protocol, supporting internationalized registration data



IETF WEIRDS (Web Extensible Internet Registration Data Service)

Chartered to:



- Include capability of differential service based on client authentication
- Address the needs of both number and name registries



What is RESTful?

- REpresentational State Transfer
 - Uses HTTP (simple interface)
 - Stateless
 - Resources are represented by URIs
 - Can be layered
 - Cacheable

Where the data is.

What type of data it is.

The ID of the data.

http://whois.arin.net/rest/poc/KOSTE-ARIN





Running Code, Already?

Number registries have running code



 Some (e.g., ARIN) now receive more queries to RESTful service than to traditional port 43 WHOIS



WG Status



- Working Group Chartered in April 2012
- Working on 5 core RFCs now
 - Use of RDAP over HTTP
 - Query format (a URI)
 - Query reply (JSON)
 - Security considerations
 - Redirects
- Scheduled to complete by December 2013



Process Overview



- WG comes to consensus on document content
- Document is assigned to a shepherd
 - Shepherd does a review, solicits outside reviews if needed, runs checklist
- Document referred to sponsoring Area
 Director for review
 - Unless revisions are needed, Area Director initiates IETF-wide Last Call, open for two weeks



Process Overview



- On completion of Last Call, document is placed on an *IESG* Telechat (every two weeks)
 - IESG is a committee of the fifteen Area
 Directors
 - IESG may approve or request changes
- Once approved, document enters RFC Editor queue (3-6 weeks)
 - Final editing, last chance for changes
- RFC published

Get Involved



- Next Meeting: IETF 85 -- November 4-9, Atlanta, GA
- http://datatracker.ietf.org/wg/weirds
 - Charter
 - Drafts
 - Contact information
 - Mailing list



Thank You



One World One Internet

Questions

