WEIRDS

Web Extensible Internet Registration Data Service

Working Group Update

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(working group co-chair, with Murray Kucherawy)

Acknowledgements:
Andy Newton and Steve Sheng

(I shamelessly copied from their decks)

WEIRD phois ontext

whois -h whois.sidn.nl nlnetlabs.nl

Domain name: nlnetlabs.nl

Status: active

Registrar:

Prolocation B.V.
Populierlaan 3B
2282KX RIJSWIJK ZH
Netherlands

DNSSEC: yes

Domain nameservers:

ns3.domain-registry.nl

open.nlnetlabs.nl

open.nlnetlabs.nl

omval.tednet.nl

2001:7b8:206:1::53

213.154.224.1

Record maintained by: NL Domain Registry

Copyright notice

[redacted for size]

query

How context dependent

number5

names

registration data How: Unstructured

What:
Policy and
context
dependent

What and How







Community AIRS CONTOS ICANN local

Chartered to...

Create a' how' that allows for various decisions about what

- Standardize a single data framework
- Deliver objects encapsulated in that framework over a RESTful service over HTTP
- Generally following the requirements from CRISP (RFC3707) but...

Chartered to... II

- producing a simple, easy-to-implement protocol, supporting internationalized registration data and, specifically for name registries, capturing the needs of internationalized domain names in the data model.
- possibility of differential service based on client authentication



RESTful?

- Representational State TransFer
 - GET, PUT, POST, DELETE
 - Resources represented by URIs
- On top of HTTP it provides you readily available libraries to do things like

http://whois.example.com/ip/192.0.2.0/operator/contacts/abuseor http://whois.example.net/domain/example.com/contacts/registrants

Deliverables

| Deliverable | Due | Status |
|---------------------------------|-----------|---|
| draft-ietf-weirds-using-http | Feb 2013 | WG last Call ends April 10 |
| draft-ietf-weirds-rdap-sec | Apr 2013 | |
| draft-ietf-weirds-rdap-query | June 2013 | |
| draft-ietf-weirds-json-response | Sep 2013 | Other documents are |
| draft-ietf-weirds-redirectds | Dec 2013 | Other documents are being adapted (search and object inventory) |

Major Issues

- Internationalization (II8N) issues related to returned data.
- vCard for JSON (jCard)
- Federated Authentication
- Search
 - Search patterns
 - 118N issues related to string comparison
 - Boolean logic, paging, and other features.

vCard for JSON 'Easy Issue'

- Transfer address information between entities is a well known problem
 - vCard spec solves that, multiple protocols want that available in JSON
- IETF chartered: jcardcal (delivery before next IETF)

II8N

- Steve Sheng reported on his comparison requirements from the Internationalized Registration Data Working Group Final Report against the WEIRDS specs.
- Preliminary findings:WEIRDS spec provide the framework for implementing the recommendations

This benefits from more expert eyes

| Fields | Internationalize? | Output Standard |
|----------------------------|-------------------|-----------------------------------|
| Domain Names | YES | Both A-label and U-label |
| Name Server Names | YES | Both A-label and U-label |
| Sponsoring Registrar | NO | US-ASCII |
| Telephone/fax | N/A | ITU.T E 164 |
| Email | YES | RFC 6531 |
| Registration Status | N/A | Exact EPP status where applicable |
| Dates | N/A | RFC 3339 |
| Entity Names and Addresses | YES | Local languages/scripts |

Search



- Issues
 - Sub-string searches
 - Prefix, suffix, mid-string, all
 - Unicode equivalences and matching
 - Boolean operators for multi-field searches
 - Paging support
- Direction seems to be: keep it simple
 - Prefix match on existing fields

Rough Consensus & Running Code Implementations

- rdap.org
- apnic (http://www.apnic.net/apnicinfo/whois_search/about/rdap)
- centralnic (https://www.centralnic.com/registry/labs/rdap)
- cnnic (http://rdap.restfulwhois.org)
- Lacnic (http://restfulwhoisv2.labs.lacnic.net/restfulwhois/)

Please Contribute

- After 2 BOFs the working group was chartered in June 2012
- Had 3 WG meetings (IETF 84-86)
- Active mailing list
- Please Write, Review, and/or Implement

Coordinates

- http://tools.ietf.org/wg/weirds
- General Discussion: weirds@ietf.org
 - To Subscribe: https://www.ietf.org/mailman/listinfo/weirds
 - Archive: http://www.ietf.org/mail-archive/web/weirds/