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)
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 2001:7b8:206:1::53
  open.nlnetlabs.nl 213.154.224.1
  omval.tednet.nl
Record maintained by: NL Domain Registry

Copyright notice
[ redacted for size ]
What and How

Protocol

Make How more structured and standardize it

Policy

Enable What to be context and regulatory specific

Community
RIRs ccTLDs ICANN local
Chartered to...!

• 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/abuse
  - http://whois.example.net/domain/example.com/contacts/registrants
## Deliverables

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Due</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>draft-ietf-weirds-using-http</td>
<td>Feb 2013</td>
<td>WG last Call ends April 10</td>
</tr>
<tr>
<td>draft-ietf-weirds-rdap-sec</td>
<td>Apr 2013</td>
<td></td>
</tr>
<tr>
<td>draft-ietf-weirds-rdap-query</td>
<td>June 2013</td>
<td></td>
</tr>
<tr>
<td>draft-ietf-weirds-json-response</td>
<td>Sep 2013</td>
<td></td>
</tr>
<tr>
<td>draft-ietf-weirds-redirectds</td>
<td>Dec 2013</td>
<td></td>
</tr>
</tbody>
</table>

*Other documents are being adapted (search and object inventory)*
Major Issues

• Internationalization (I18N) issues related to returned data.

• vCard for JSON (jCard)

• Federated Authentication

• Search
  • Search patterns

• I18N issues related to string comparison

• Boolean logic, paging, and other features.
vCard for JSON

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

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/apnic-info/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


• General Discussion: [weirds@ietf.org](mailto:weirds@ietf.org)

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