

A Next Generation Registration Directory Service (RDS)



EWG Briefing for the IETF by Chris Disspain

Monday Nov 4, 2013

Mandate and Purpose

- + ICANN Board directives
 - + Implement the WHOIS Review Team recommended improvements
 - + Redefine the purpose and provision of gTLD registration data
- + Expert Working Group (EWG) formed to assess the need for Next Generation Registration Directory Service (RDS) and recommend a new approach



Why Update WHOIS?

Protocol Challenges

- Lack of standardized command, output, and error structures
- No consistent data model
- Support for internationalization and localization
- Lack of security features

Other Challenges

- Consistency
- Accuracy
- Privacy (or lack thereof)
- Limited standards for privacy/proxy services
- One size fits all approach
- Limited validation & verification of data elements
- Purpose for access not tied to data elements displayed

EWG Key Findings



- + Initial Report published on 24 June

<https://www.icann.org/en/groups/other/gtld-directory-services/initial-report-24jun13-en.pdf>

- + Based on detailed analysis of users and purposes
- + Recommends paradigm shift
 - + Abandon one-size-fits-all WHOIS system
 - + Replace by purpose-driven system to improve privacy, accuracy & accountability
- + Buenos Aires Status Report to be published 8 Nov

Policy Requirements for the Next Generation WHOIS

- EWG recommendations to facilitate & focus future policy discussions on an issue that has been contentious for 10+ years
- GNSO to develop new policy recommendations based on EWG Work
- EWG is developing ***design principles*** for evaluation in the GNSO policy process

EWG Recommended Principles – Accountability



- + All parties in the domain name ecosystem have responsibilities
- + Current, accurate, timely data
- + Reachable for timely resolution of domain name problems
- + Responsible for registration and use
- + Repercussions for misusing data or providing inaccurate data

EWG Recommended Principles – Data Elements

- + Collected by registrars
- + Stored by registries
- + Purpose-based collection



Data Element	Purposes
Registrant Name/Organization	Domain Name Control Personal Data Protection Technical Issue Resolution Internet Services Provision Individual Internet Use Business Domain Name Purchase/Sale Legal Actions Domain Name Research Regulatory/Contractual Enforcement Abuse Mitigation

- + Allow for extensibility

EWG Recommended Principles – Validation and Accuracy



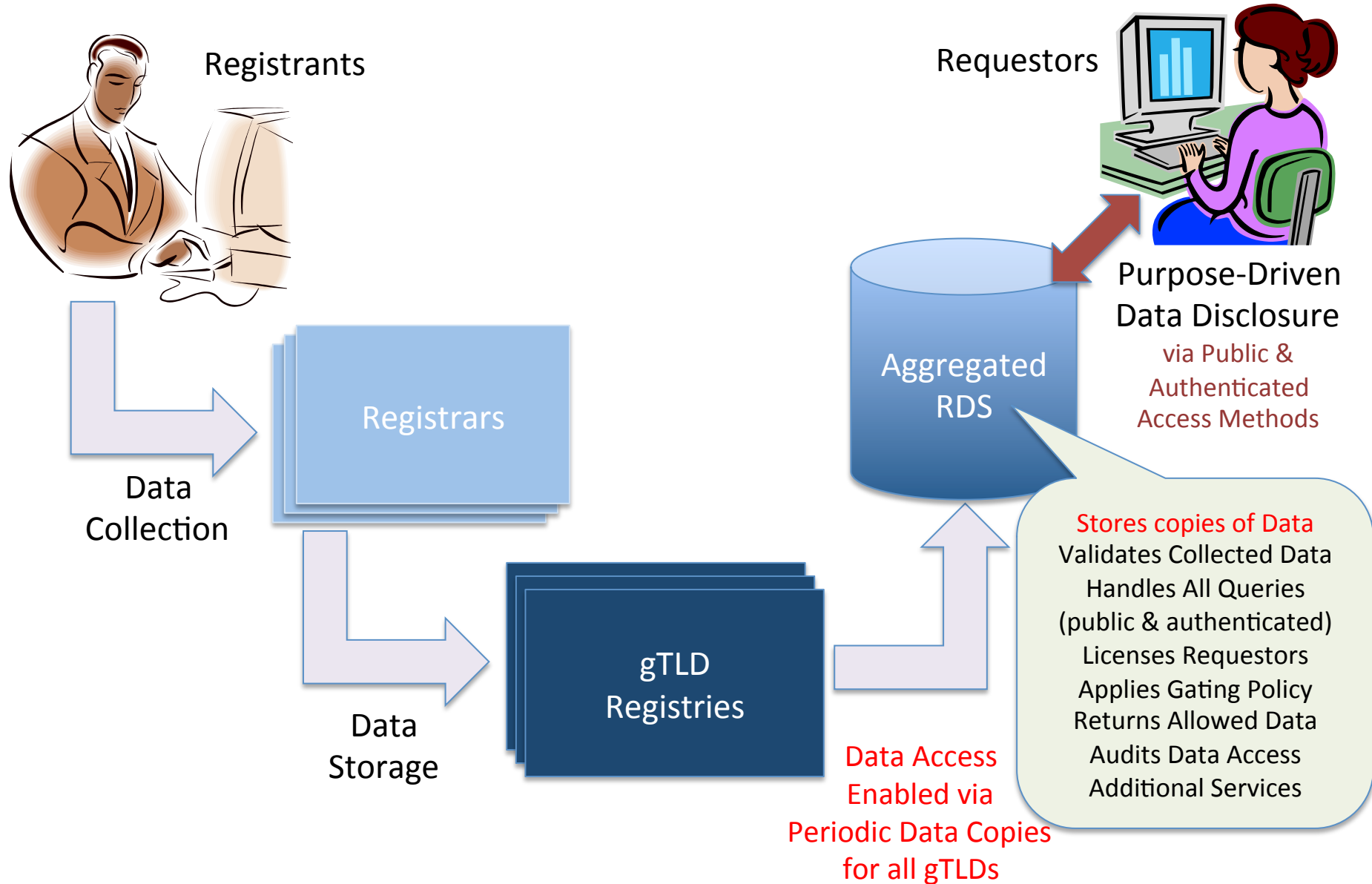
- + Registration data should be validated syntactically when collected
- + Name/contact should also be validated operationally
- + Optional feature for registrants to pre-validate a reusable registrant name/organization/contact
- + Periodic time-stamped re-validation
- + Standard validation service

EWG Recommended Principles – Data Disclosure

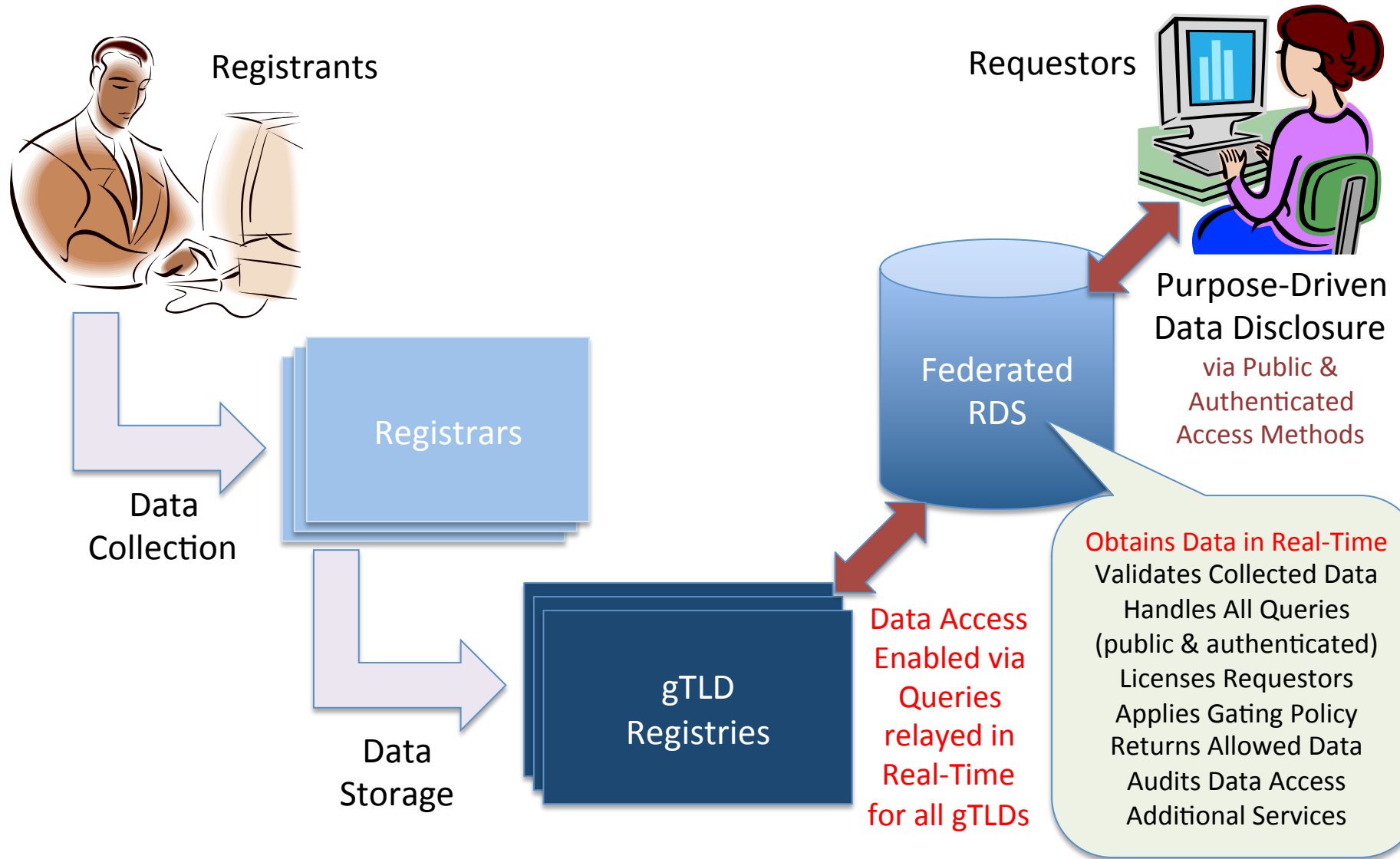
- + Copied from registries
- + Stored in the Aggregated RDS or queried real-time from registries (Federated RDS)
- + Purpose-based disclosure
- + Public access to minimum data set, with restrictions to deter harvesting
- + Gated access to other data, based on requestor identity and purpose



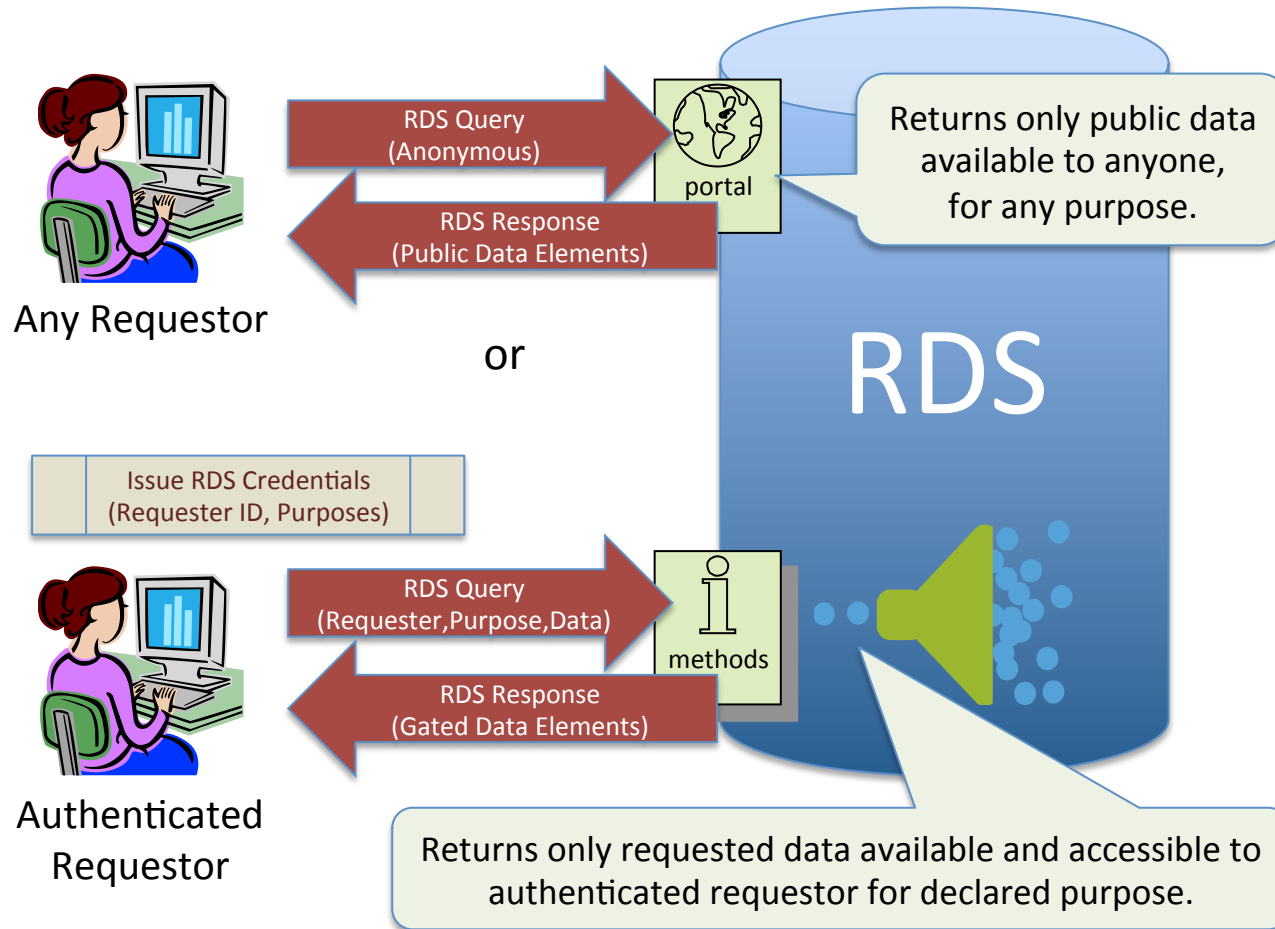
Aggregated RDS Model



Federated RDS Model



Recommended Principles – Access Methods



Implications for Protocols

Informed by/Connected to IETF Efforts

- Referral Whois (RWhois)
 - RFC 1714 (1994), RFC 2167 (1997)
- Whois++
 - RFC 1834 et al. (1995)
- Internet Registry Information Service (IRIS)
 - RFC 3981 et al. (2005)
- Registration Data Access Protocol (RDAP)
 - WEIRDS working group (2012+)
- EWG is informed of IETF work and has explored compatibility with its recommendations

Implications for Protocols

- Intent is to work with applicable protocols wherever possible
- EWG is evaluating applicable protocols (EPP & RDAP)
 - EPP: Standard 69, RFCs 5730 - 5734
- Initial analysis suggests both EPP & RDAP can be used
 - May require a few extensions, additions, or use of RDAP “remarks”

Implementation & Deployment Issues

- Registries & Registrars roles a focal point
- What about TLD registries?
 - ccTLDs may or may not
 - Unclear who will implement or deploy the new ARDS
 - Depends upon model ultimately selected by Board (Centralized, Federated, or something else)
 - EWG evaluating models to see which one can satisfactorily address all recommended design principles

What is the status of other WHOIS-related work being done by ICANN?

Other policy work on improving WHOIS continues to be conducted:

- + Thick WHOIS Policy Development Process (PDP)
GNSO approved thick WHOIS requirements for all gTLDs in the standard format required under the 2013 Registrar Accreditation Agreement
- + PDP on Privacy and Proxy Services- GNSO drafting charter to commence work
- + PDP on Translation and Transliteration of Internationalized Registration Data- GNSO finalizing charter to commence work

Next Steps for the EWG



- + EWG to publish Status Report by ICANN's Nov. Meeting
- + Research to Commence on Topics- ccTLD validation practices, commercial validation services, risk/impact analysis, proxy provider practices & detailed costs analysis
- + EWG expects to wrap up after ICANN's March Singapore meeting w/ delivery of Final Report
- + Community debate and discussion
- + ICANN Board to evaluate & send to the GNSO for follow-up policy work if appropriate

How to Learn More

Buenos Aires Public Sessions: Wed Nov 20 2013:

<http://buenosaires48.icann.org/en/schedule/wed-rds>

and workshop:

<http://buenosaires48.icann.org/en/schedule/wed-ewg-wrap-up>

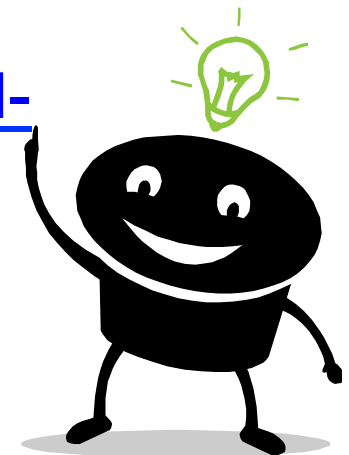
Calls, briefings, meetings upon request

Initial Report:

<http://www.icann.org/en/groups/other/gtld-directory-services/initial-report-24jun13-en.pdf>

Announcement:

<http://www.icann.org/en/news/announcements/announcement-3-24jun13-en.htm>



Questions?

Thank You