

Exploring Replacements for WHOIS – A Next Generation Registration Directory Service (RDS)



EWG Workshop with the ICANN
Community
Monday, 24 March, 2014



ICANN

Singapore

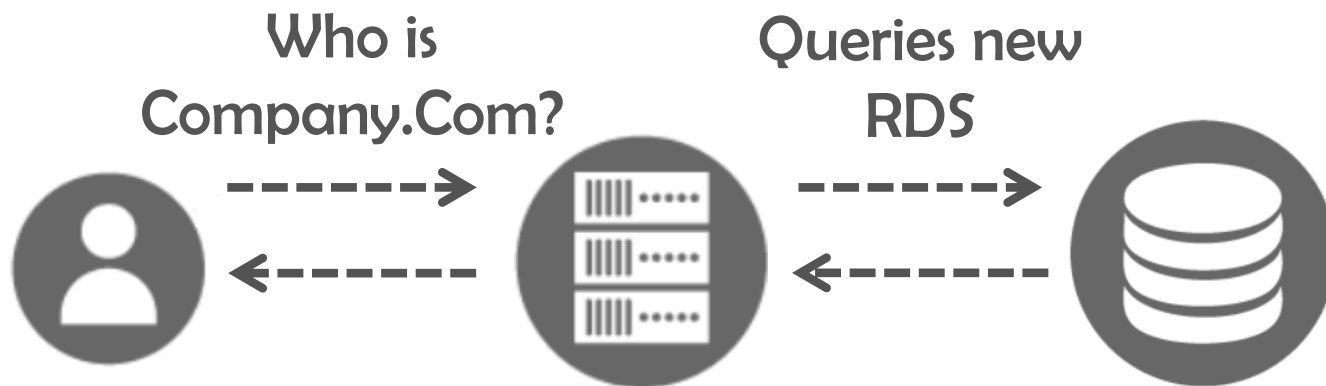
No. 49
23-27 MARCH 2014



RDS Workshop Agenda

- Recent Activity and Plans
- Community Input on RDS Risk and Benefits
- Q&A

What is the RDS?



Domain Name: company.com
Organization: Company Inc.

Street: 100 Corporate Parkway
City: Mountain View
State/Province: CA
Postal Code: 94043
Country: US
Phone: +1.6501234567

Email: dns-admin@company.com
.....etc.....

Returns public,
verified accurate
information about
Registrant

To authorized users,
may also return
gated data

Recent EWG Progress

- Status Update Report Nov 2013
 - Dialog with Community at ICANN 48
 - Public Comment closed 28 February
- Research Phase Jan-Feb 2014
 - Whois Data Validation/Verification ccTLD Practices Survey and Commercial Services RFI
 - RDS User Accreditation RFI
 - RDS Model Cost Comparison
 - Whois Privacy/Proxy Service Provider Practices Questionnaire

EWG Plans

- EWG reconvened in Singapore to review research results & comments
- RDS Risk Survey launched to gather input on potential risks and benefits
- All inputs to be carefully considered as EWG refines RDS recommendations
- EWG is scheduled to deliver its final report to the ICANN Board in June 2014
- Report will serve as focused input to on-going policy development

RDS Risk Survey

- **Why:** This survey is a chance to tell the EWG about risks and benefits that the RDS might have for YOU.
- **Who:** You are invited to participate if you PROVIDE OR USE Whois data.
- **Results:** Findings will be used to refine recommendations to reduce risks and as input to a full risk assessment.

<http://tiny.cc/risk-ewg-survey>

Process

- Gather broad community input via on-line survey and interactive webinars
- Findings and preliminary analysis will be included in the EWG's final report
- If ICANN pursues RDS implementation, a formal risk assessment would
 - Analyze identified possible risks
 - Rank and prioritize them
 - Assess their impacts and interactions, and
 - Identify steps to reduce risk.

Invitees include...

- Natural Person (Individual) Registrants
- Legal Person (Business) Registrants
- Proxy Service Providers
- Protected Registrants
- Domain Name Registrars
- Domain Name Registries
- Third-Party Whois Providers
- Internet Technical Staff
- On-Line Service Providers
- Individual Internet Users
- Business Internet Users
- Internet Researchers
- Intellectual Property Owners
- Law Enforcement Agencies
- Operations/Security Incident Investigators

ANYONE who may be impacted by the proposed RDS can respond to this survey

Participants are asked about...

- Possible risks and benefits that RDS implementation could have:
 - **Technical:** Changes to processes that use or provide registration data today,
 - **Legal or Financial:** Changes to costs and legal considerations associated with registration data,
 - **Operational:** Changes in speed of access to or availability of registration data, and
 - **Security or Privacy:** Changes that could affect the privacy of domain name registration data.
- Ways to reduce risks or increase benefits.

Example: Potential Risks

Using all four columns below, please:

- Select ALL Security or Privacy Risks that potentially impact YOU.
- Select TWO (2) risks that could have the biggest impact on you.
- Select TWO (2) risks most likely to occur.
- Select ANY newly-introduced RDS risk that is not already a known Whois risk.

You are encouraged to add to these examples by describing other risks using rows h-j.



Potential Security or Privacy Risks	Might impact you?	Two most impactful?	Two most likely?	New with RDS?
a) My registration data might be more vulnerable to external attack.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) My registration data might be more accessible to law enforcement.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) I might be required to provide a valid email address to register a <u>gTLD</u> domain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) I might have to declare that I am a legal or natural person to register a <u>gTLD</u> domain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Other Security or Privacy Risk (describe below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Other Security or Privacy Risk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EXAMPLES

PLEASE ADD YOUR OWN!

Example: Potential Benefits

6) Using all four columns below, please:

- Select ALL Technical Benefits that potentially impact YOU.
- Select TWO (2) benefits that could have the biggest impact on you.
- Select TWO (2) benefits most likely to occur.
- Select ANY newly-introduced RDS benefit that is not already a known Whois benefit.

You are encouraged to add to these examples by describing other benefits using rows f-h.

Potential Technical Benefits	Might impact you?	Two most impactful?	Two most likely?	New with RDS?
a) My registration data might be easier to maintain.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Registration data that I access might be more accurate.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Access to registration data might be more uniform and consistent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) I might have better access to gated data that I really need.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) I might no longer be required to provide port 43 public <u>whois</u> access.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f) Other Technical Benefit (describe below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Other Technical Benefit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EXAMPLES

Tell us what you think!

- Please take this opportunity to identify possible positive and negative impacts on YOU as a USER or PROVIDER of Whois data
- Successful risk assessment ultimately depends on broad stakeholder input
- Two ways to share your insights
 - Interactive Webinars – early April
 - On-line Survey – closes May 15

<http://tiny.cc/risk-ewg-survey>

Questions? Comments?

#ICANN49



Background Material

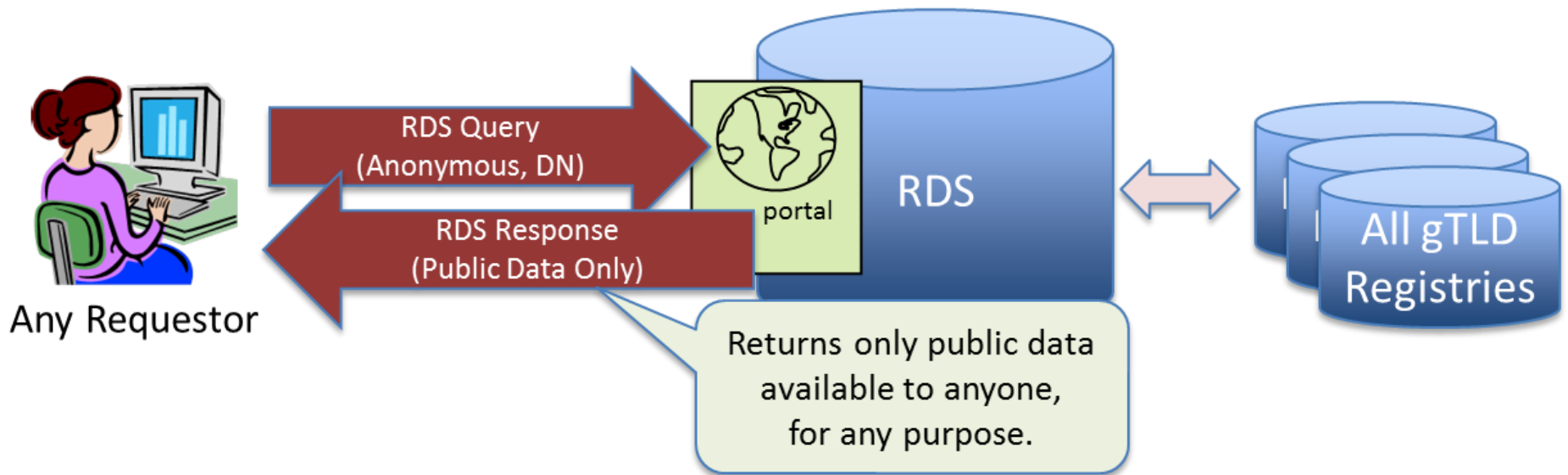
#ICANN49



What is the RDS?

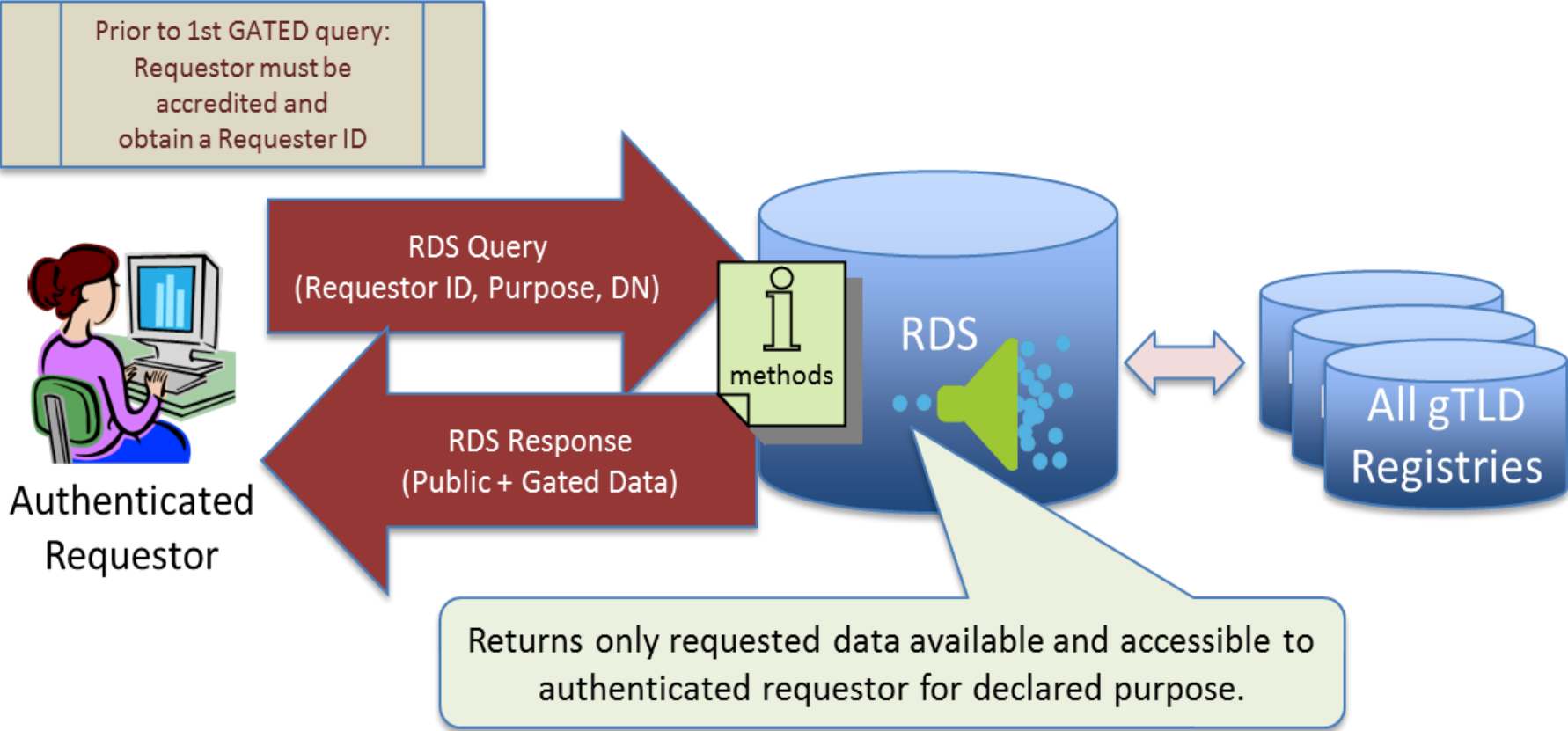
- Next-Generation Registration Directory Service (RDS)
 - Clean-slate approach
 - Based on analysis of users, purposes, and data needs
- Recommended paradigm shift
 - Abandon one-size-fits-all WHOIS approach
 - Replace with a new purpose-driven system to improve privacy, accuracy & accountability

Public Access to Some Registration Data



- **Purpose-based disclosure**
- **Public Access to minimum set**
- **Gated Access to other data...**

Gated Access to More Sensitive Registration Data



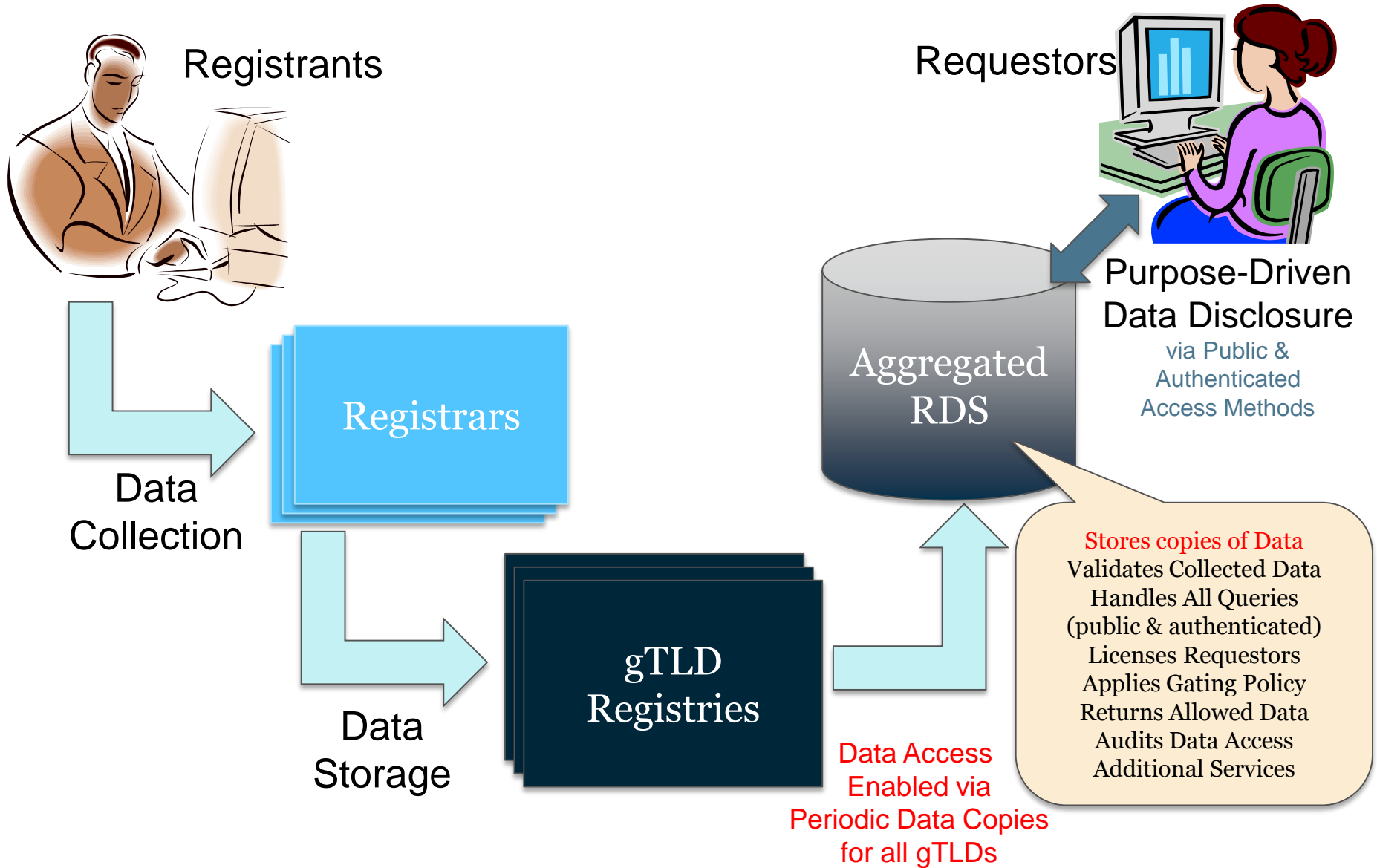
Sample RDS Record

Registry or Registrar Source	Registrant Source	Optional Role Based Contacts
Registration Status	Domain Name	Contact Name
DNSSEC Delegation	Name Server	Contact Role
Client Status	Registrant Name	Contact ID
Server Status	Registrant Type	Contact Organization
Registrar	Registrant Contact ID (issued by RDS-accredited Validator)	Contact Street
Reseller	Registrant Organization	Contact City
Registrar Jurisdiction	Registrant Company Identifier	Contact State/Province
Registry Jurisdiction	Registrant Email	Contact Postal Code
Registration Contract Language	Registrant Street	Contact Country
Creation Date	Registrant City	Contact Phone
Original Registration Date	Registrant State/Province	Contact Phone Ext
Registrar Registration Expiration Date	Registrant Postal Code	Contact Email
Updated Date	Registrant Country	Contact Fax
Registrar URL	Registrant Phone	Contact Fax Ext
Registrar IANA Number	Registrant Phone Ext	Contact SMS
Registrar Abuse Contact Email	Registrant Fax	
Registrar Abuse Contact Phone	Registrant Fax Ext	
URL of the Internic Complaint Site	Registrant SMS	

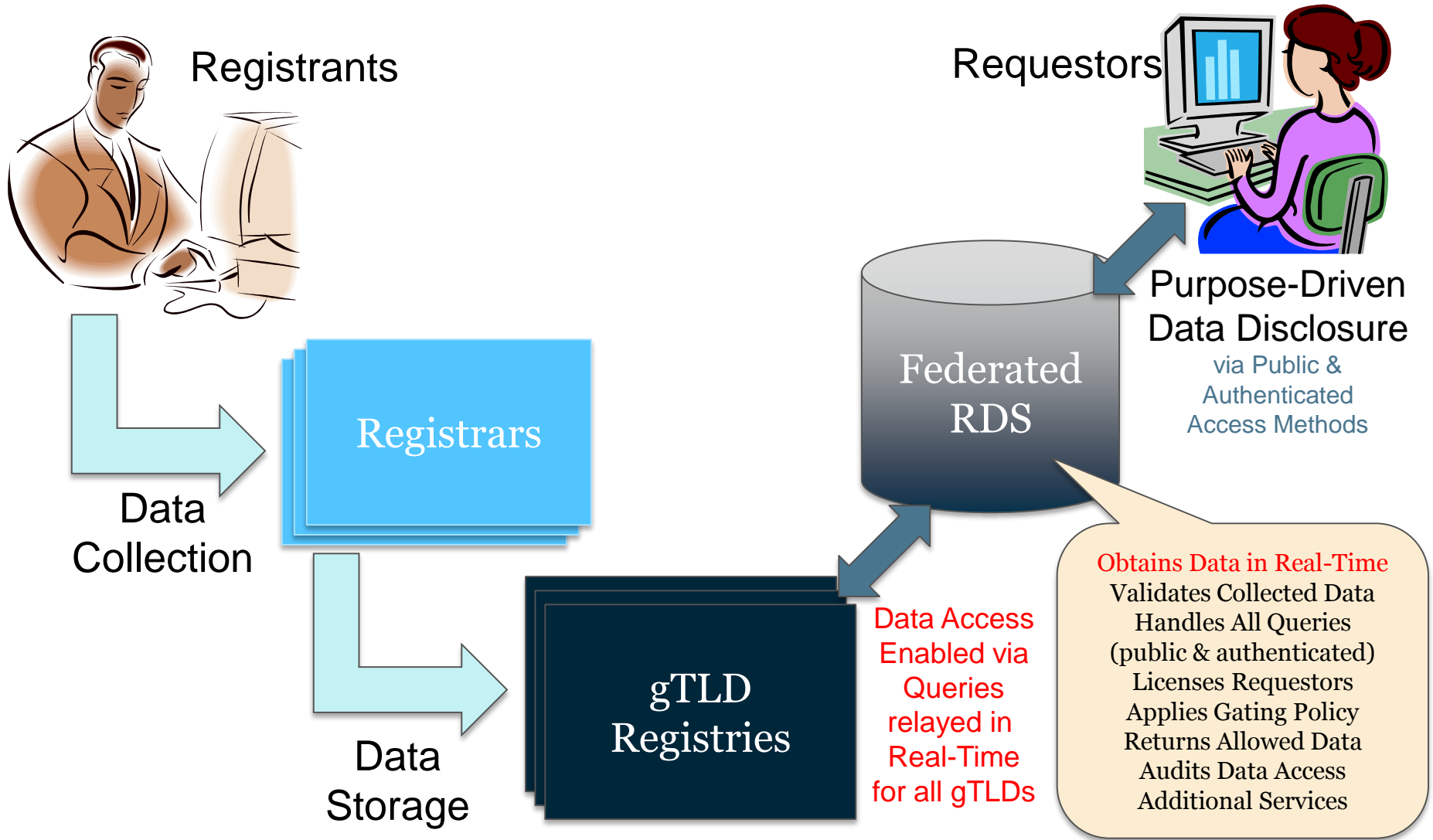
KEY: Bold Elements Always Public/Rest May Be Gated

Shaded Optional to Collect/Rest mandatory to Collect

Possible Models: Aggregated RDS



Possible Models: Federated RDS



Additional Resource Links

- Buenos Aires Public Session Recording
<http://buenosaires48.icann.org/en/schedule/wed-rds>
- Initial Report Announcement
<http://www.icann.org/en/news/announcements/announcement-3-24jun13-en.htm>
- Status Update Report Announcement
<http://www.icann.org/en/news/announcements/announcement-11nov13-en.htm>
- Public Research Page
<https://community.icann.org/display/WG/EWG+Public+Research+Page>
- Public Comments Page
<http://www.icann.org/en/groups/other/gtld-directory-services/share-24jun13-en.htm>