Project Jake

Precise Specification of Collection and Access Rules for Registration Data

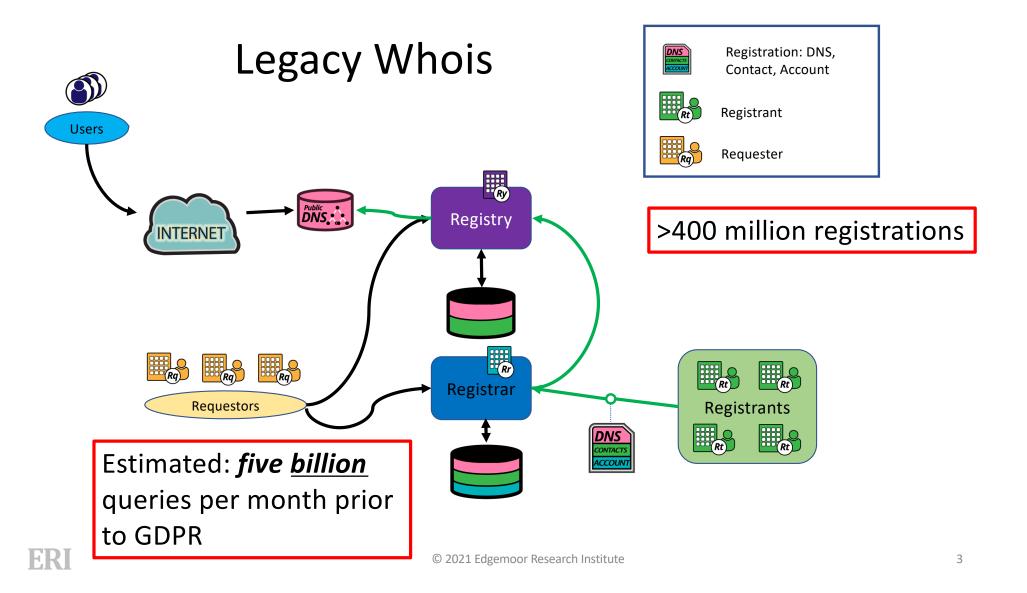
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ROW 10 Presentation 8 June 2021



Jake, BBQ, Edgemoor Research Institute

- Project Jake
 - Rework RDDS from the ground up
- BBQ Group
 - An ad hoc group of experts working sans portfolio
- Edgemoor Research Institute
 - New non-profit home for this work and related projects
 - https://www.edgemoorresearch.org under construction
 - Email: info@edgemoorresearch.org or steve@shinkuro.com





Complaints

Inaccurate data

Harassment

Lack of responses

Cost of Operation



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Rework from the ground up



Project Jake: Tools for Expressing/Analyzing...

- Rules for Collecting and Labeling Registration Data
- Request Templates
- Interaction among Rule hierarchies
- Interaction between Collection/Labeling Rules and Requests
- Emphasis is on data details: collection, responses
- Purpose, accreditation, authorization, etc. are complementary



Three places to use Framework/Model

Inside Organization

Within PDP Working Group

External

Internal

- Draft descriptions
- Analysis, Comparisons
- Development of Company position

Discussion/Negotiation

- Proposal of possible policies
- Comparison/Contrast with others

Decisions/Documentation

- Public documentation
- Reference of actual operation

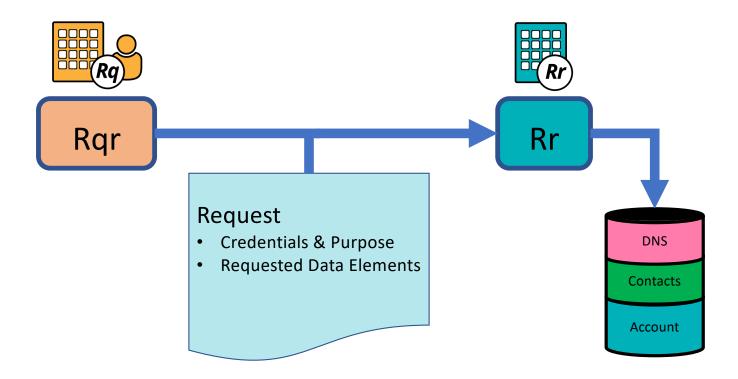


The Big Picture

- Co-operatives
- Collection Rules
- Request Templates
- Data Dictionary

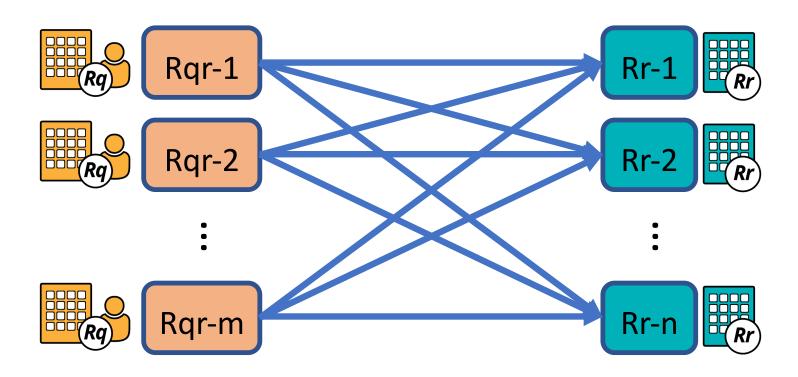


Requests





Registrars and Requesters



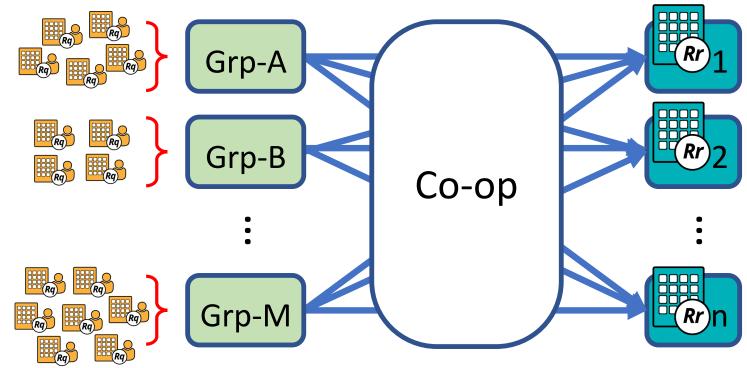


Accredited Groups and Co-operative Agreements

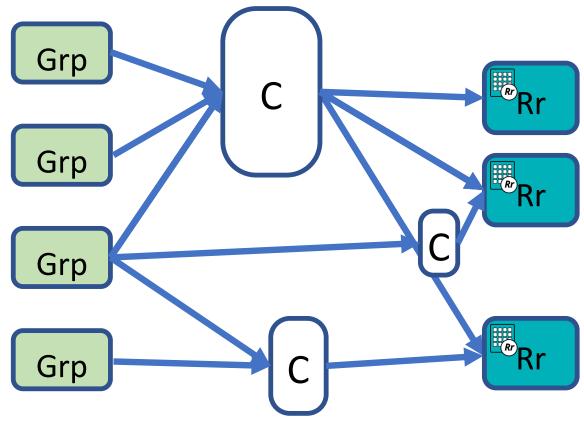
Groups LEA

- IPC
- Security
- M&A
- Public

•

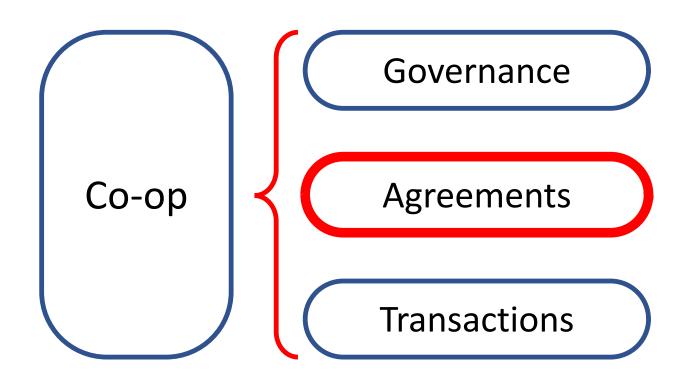


Multiple Co-operatives



ERI

Components of a Co-operative



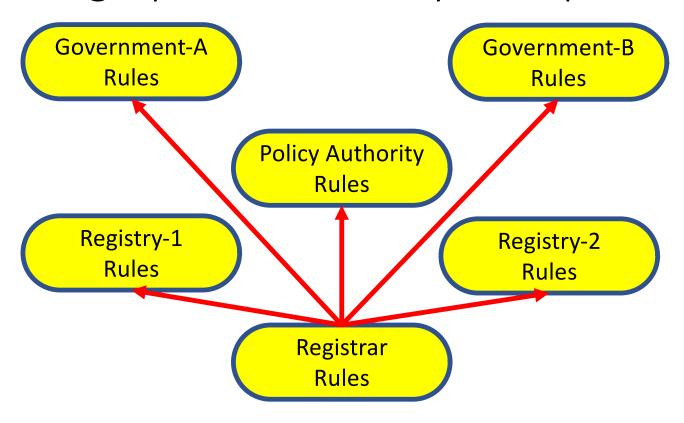


Authorized Request Agreements

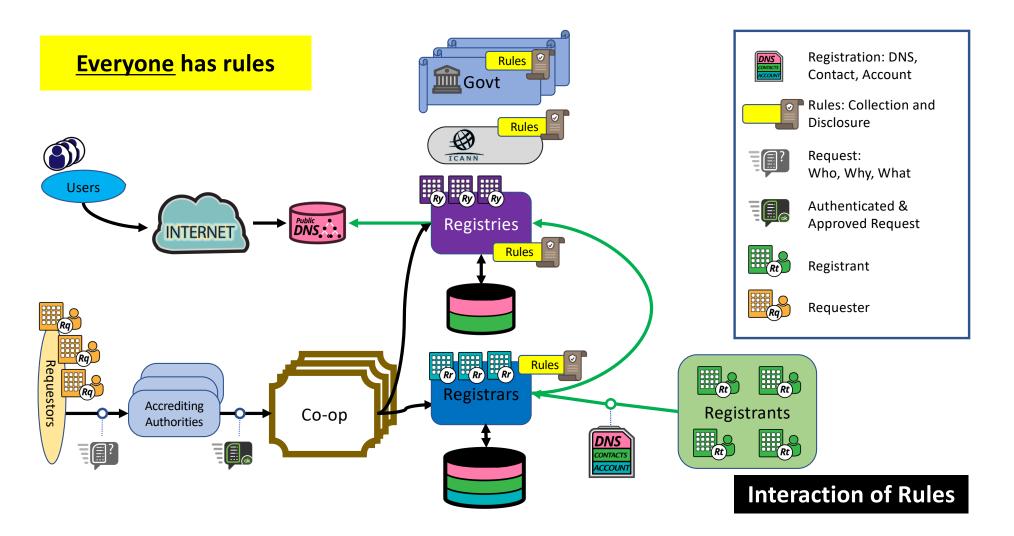
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Grp-A	X		
Grp-B	Х	Х	
•••			
Grp-m	х		Х

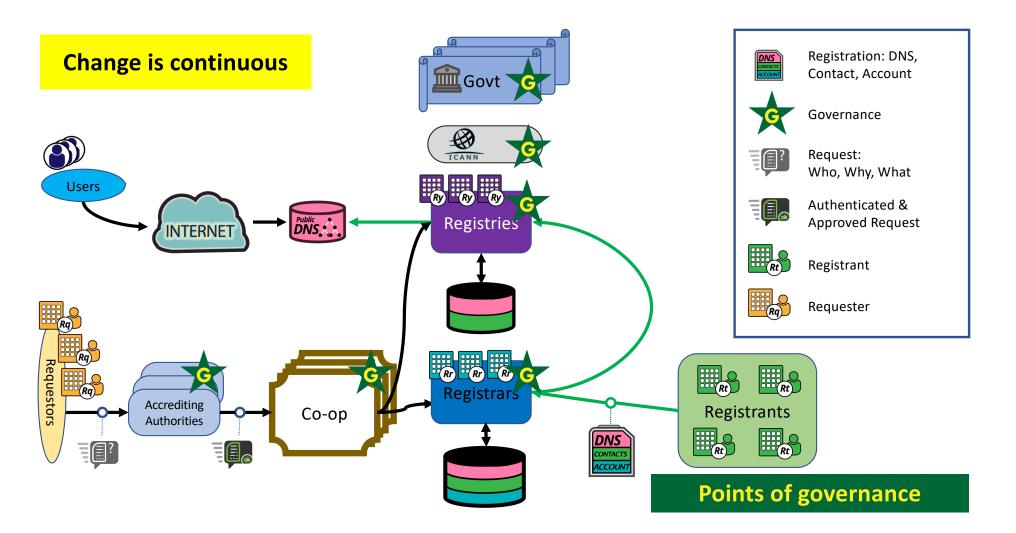


Looking Upward to Satisfy Multiple Rules









Collection/Labeling Rules



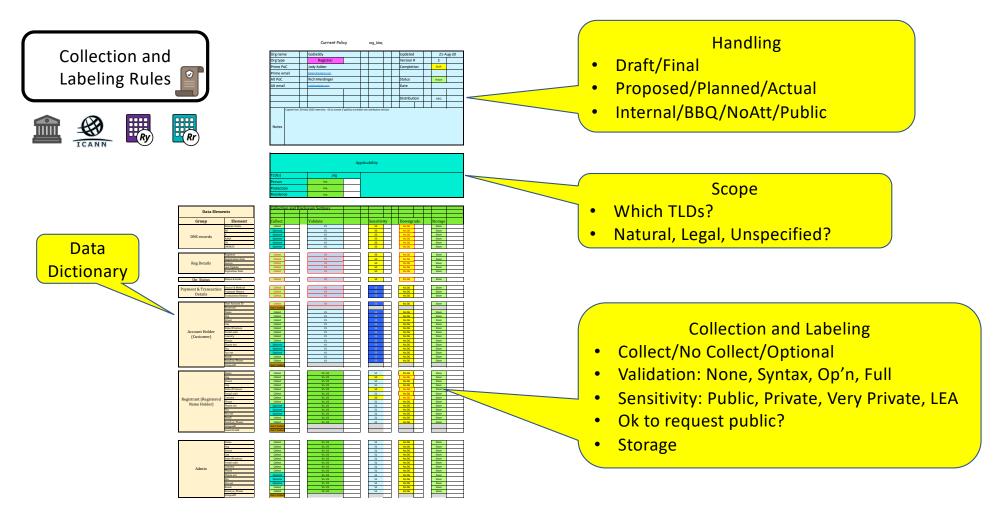
Collection & Labeling Rules

- Collection/Labeling of each element
 - Required, optional or not collected
 - Sensitivity:
 - Public
 - Private
 - Very private
 - Legal process required
 - Registrant choice to make public
 - (Validation, transfer upward)

- Scope of each rule set
 - TLDs
 - Legal/Natural/Unspecified
 - Normal/ProtectedUnspecified

Sensitivity plays a key role in response to requests





Requests



Illustrative Request Templates

Anonymous Public Request

- No ID or authorization
- · Only public data
- Normal Logging

Authorized Contact Data

- Rqr Credentials & ID
- Approved Data Elements
- "Private" data
- Normal Logging

Full Access

- Rgr Credentials & ID
- All data
- All sensitivity levels
- Protected Logging

Available to anyone for any purpose. Very limited amount of data.

Example: Intellectual property attorney.
Specific purpose and rules of use.

Example: Law
Enforcement during an
exigent circumstances
search.



Request Sequence

Who

- Accrediting Authority
- Purpose
- Legal Requirements
- Credential



Request Template

- Categories
- Sensitivity Levels
- Search ok?
- Logging
- Manual vs Auto
- Exigent ok?



Specific Request

- Domain
- Contact
- Email
- Exigent

Arranged in advance

When needed



Request Template: Trademark Attorneys and similar Org name GoDaddy Org type Registrar Prime PoC Prime email Alt PoC Per Request Notes ID_Req? Required DNS Include Search_name? RegOp Include Search_email? No Forensic None Domain Org Include Contact Name Include Email Email Include Processing Manual Phone Include Exigent OK? Not Permitted Location UniqueID Logging Do Not Track None Sensitivity S2 Manual **Processing Notes** Prefilled Template



General Classes of Requests

	Speed	Processing Cost
Anonymous requests (Legacy Whois)	Fast	Low
Public requests with identity and attribution	Fast	Low
Automated Credentialed Requests	Fast	Low/Medium
Credentialed Requests with Manual Review	Slow	High
None of the above	Very Slow	Very High

Automation is Important



Data Dictionary



Data Dictionary

- Data Dictionary of approximately 90 Defined Data Elements
 - Publicly defined; common definitions
 - Each collector uses its own subset of the data elements
- Data Elements are grouped into several Categories
 - Kind (e.g. DNS/locks/contacts)
 - Degree (street address vs country)
 - Categories play a key role in response to requests



The Current Data Dictionary >90 Data Elements with Categories & Subcategories

- DNS: NS, A, AAAA, DS, DNSKEY
- RegOp: Reg date, exp date, ...
- Forensic: Account ID, Account holder, payments, IP address at reg'n time
- Contacts:
 - Registrant
 - Admin
 - Tech
 - Billing



- Name
- Organization
- Phone(s)
- Email
- (Email or Phone)

- Location:
 - Country
 - State/Province
 - City
 - Post & Street Address



Tools



Tools

- Specification of Collection and Labeling Rules
 - A registrar might have multiple sets of rules
- Comparison of competing rules
- Analysis of hierarchy
 - Look upward at registry, policy authority, government rules
- Specification of Request Templates
 - Provides a way for Requesting communities to say what they would like
- Display of effect of collection/labeling rules and request templates



Engagement

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