

Beyond Whois

An Introduction to Project Jake

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Purpose of this talk

- A gentle introduction
 - Key ideas and principles
- An invitation to talk

Whois Was a Mess

- GDPR changed it. Still a mess. Just different
 - Lack of Clarity
 - Inefficient
 - Poor data on effectiveness
- Project Jake is a fresh look at the overall Whois ecosystem

Principles

- Flexible, multi-jurisdictional system

- Policies set locally
- Operations are distributed
 - No centralized control
- Common protocols



The Internet Way

What Everyone Wants

- Strong Privacy Protection
- Satisfy Legitimate needs
- Works pretty well
 - No wholesale errors
 - Trends toward good
- Local control over policy

What Data Holders Need

- Purpose of Request
- Does Requestor fit the Purpose?
- Can I **trust** the Requestor?
 - Who vouches for the Requestor?
 - Is the trust enforceable

Building Policies for Collection and Access to Registration Data

Two Halves – Collection and Disclosure

- Collection

- Required/optional data
- Validation (Accuracy)
- Sensitivity
- Subgroups

- Disclosure Requests

- Purpose
- Requestor fit
- Requestor trust

Collection Details – Collection, Validation & Sensitivity

❑ Collect/Optional/Don't Collect

❑ Validation

❑ Accept as given (V0)

❑ Check syntax (V1)

❑ Operational check (V2)

❑ Identity check (V3)

Some registrants want to be able to ask for higher levels of validation

❑ Sensitivity Levels

❑ Public (S0)

❑ “Private” (S1)

❑ Very private (S2)

❑ Ultra private (S3)

• Usually court order

Some registrants will ask for lower sensitivity

Collection Details – Hierarchies

- (Rr) Registrars collect data and have collection rules
- (Ry) Registries will usually have rules
- (PA) Policy authorities – govs, ICANN, et al – will also have rules
- These rules may be very specific, very loose, or something in between. These can be tested for consistency, i.e.

$$Rr \leq Ry \leq PA$$

Jake System Design

Principles

- Distributed System
 - No central operation
 - Requestors & Registrars connected via common protocols
- Evolution
 - Requestors: Retain, Analyse, Reuse
 - Registrars: Retain, Analyze, Optimize
- Enter into contracts when comfortable

Data Requests

- Authorized data requests come from different groups, e.g.
 - General Public
 - Public Safety agencies
 - Security researchers
 - Intellectual property attorneys
 - Secondary market buyers (“domainers”)
 - Merger and acquisition investigators
 - Etc.
- Each group has permission for specific subsets of data

Collector and Requestor Agreements

- The list of authorized groups
- The list of data requests authorized for each group
- Each collector honors all requests from each authorized group
- Requestor obligations (use, protection, recourse, payment)
- Are the registrar's rules consistent with
 - Registry's rules
 - Government's rules
 - Policy body's rules, e.g., ICANN, regional consortium, etc.

Your turn
Let's talk