History and Background
How it Works: Registry Operations

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Key Milestones in the History of Registration Data Services

- 1984: Defense Data Network Network Information Center (DDN-NIC) at Stanford Research Institute (SRI) handled all domain registration services
- 1999: Separation of registry and registrar functions
- 2000 - Present: Introduction of new gTLDs

Previous Attempts to replace Whois

- 1995: WHOIS++
- 1997: RWhois
- 2005: IRIS
Registration Data Directory Services: What We Need

- Distributed model
- Authoritative data
- Data protection
- Scalability and security
- Standards-based solution
Current Model
Proposed Model

Data Source Directory

Auth Provider

RDDS Service

Authoritative Data Source

Examples:
- Registries
- Registrars
- Resellers
- Proxy Services
- RIRS
How can RDAP meet these needs?

Potential Public (Non-authentication) RDAP Flow
How can RDAP meet these needs?

Potential Authentication and Authorized RDAP Flow