

RDAP - Registrar Implementation

Mark Robertshaw - CTO Oxford Information Labs

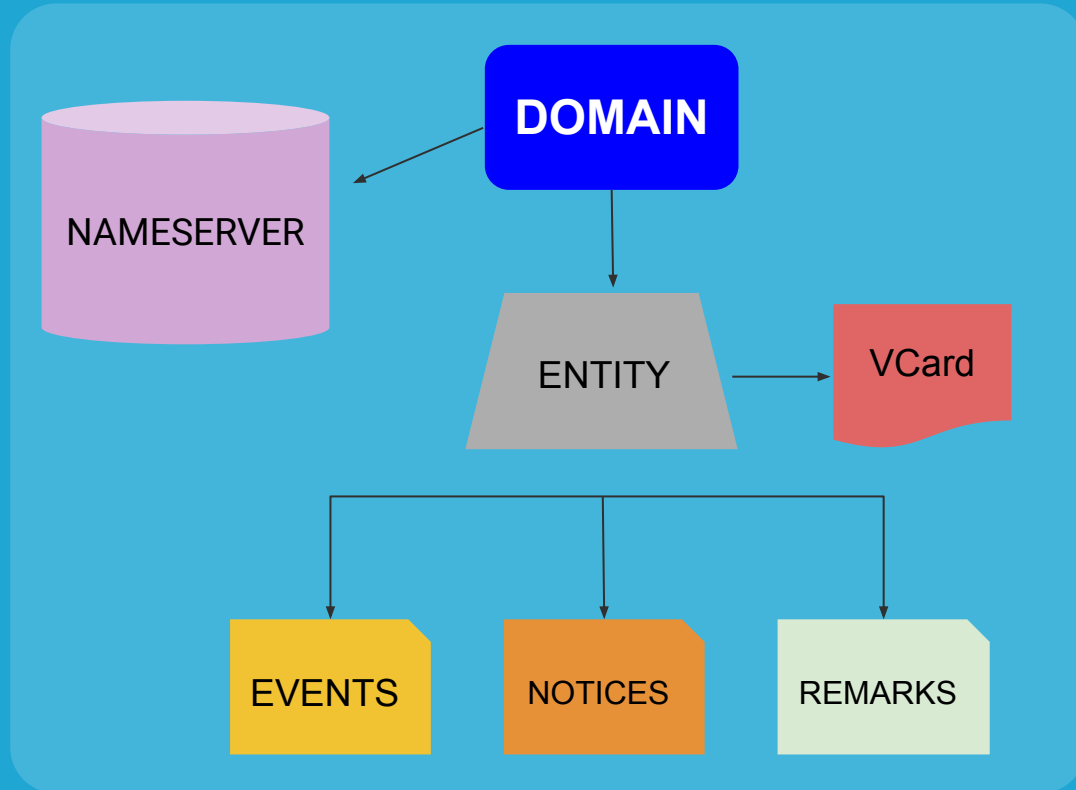
What is RDAP?

- **Registration Data Access Protocol**
- (Eventual) Replacement for WHOIS for accessing current registration data
- Standardised validatable data format for responses using modern web standards (JSON)
- Extensible data structure allowing future enhancement including secure access

Benefits as a Registrar

- Well defined and rigid data format for data interchange
- Easily validated using thirdparty tools available online
- Implementation as standard port 443 web service - simplifies deployment and edge cacheable
- Opportunity for more secure access to data over time

RDAP Data Structure



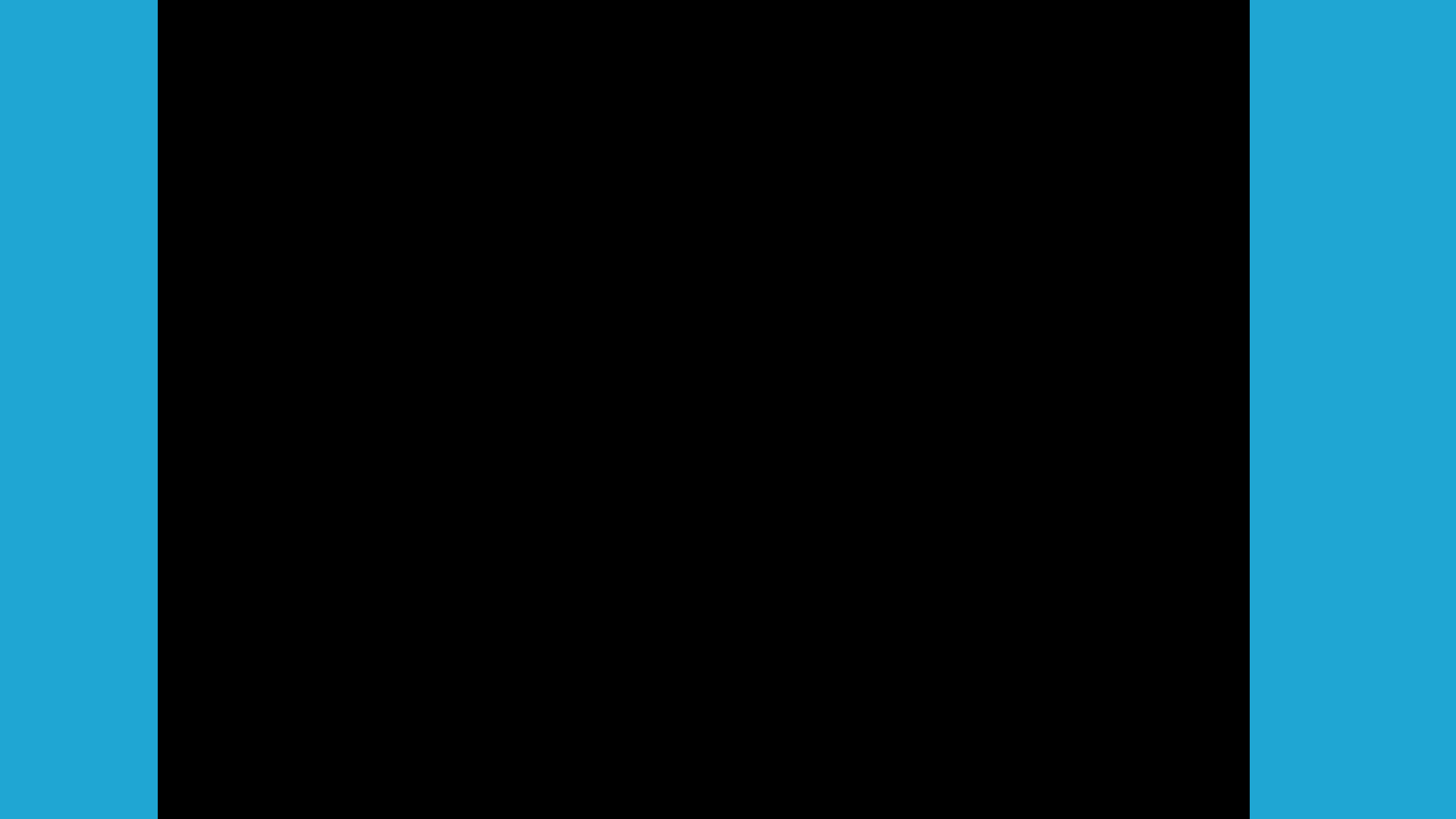
Implementation notes

- Event tracking for assets provides rational created / updated dates
- Support for GDPR redacted data and Privacy Proxy for Contacts
- Rational encoding of Registrar and ICANN specific assets and policies as Notices and Remarks
- VCard format for contacts very verbose!

Deployment

- Implementation as standard web service - slotted into existing web service cluster for core registrar services
- Ability to employ thirdparty edge network protection (DDOS, Rate Limiting, Caching) due to use of port 443 unlike WHOIS services (port 43)

Quick Demo



Any Questions?