RyCE Registration Data Access Protocol

Post-GDPR Protocol for Registry Operators
Why RDAP

• EU General Data Protection Regulation
• Addressed Austrian Registry Data Access Requirements
• Next-Generation Technology
• Credentialing and Access Control
• Multi-tier Data Access
• Easier Auditing
• ICANN Offered Pilot Program
Policy Development

• Identify available data
  • Registry generated data
  • Registrar provided data
• Identify Users and Purposes for data
• Creation of Data Sets
  • Private Data
  • Public Data
• Mapping data sets to users and purposes
• Mapping access controls to users and purposes
Technical Implementation

- Current ICANN WHOIS model adoption
  - Domain query
  - Registrar/Contact query
  - Nameserver query
- EPP Contact Disclose element incorporation
- Basic HTTP authentication (username and password)
  - https://demo:demo12345@rdap.ryce-rsp.com/rdap/domain/nic.wien/
- Extended to allow authInfo for domain transfers
  - https://rdap.ryce-rsp.com/rdap/domain/nic.wien/?authinfo=test
- Currently uses Live Registry Data
Lessons Learned

• Technically almost everything is possible
• Policy is key, local and international
• One size does not fit all
• No global standard for credentialing, centralised authentication, certificate based authentication
• Constant development, but slow due to no real-world uptake or examples to learn from
• Data unavailability in a world of privacy/proxy
Future Implementation

• WHOIS/RDAP interpreter
• Federated Access (OAuth)
• Expand user category and data access
• Implement credentialing mechanism
• Create front-end user interface
• Refine data access and user categories based on GDPR experiences
Contact Us and Feedback

- Website: https://rdap.ryce-rsp.com/
- Email: rdap-feedback@dns.business

Special Thanks

- ICANN
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- RDAP Pilot Working Group Members
Questions?