RDAP @ nic.at

2017-09-15 · Alexander Mayrhofer · Head of R&D
Some (30 years) of History..

• WHOIS was never meant to be used that way
  – **1985**: „netwide directory service to ARPANET“ – RFC 812
    • Translating (person) names to contact information
  – **1995**: WHOIS++ - RFC1834
    • First attempt to standardize query / response format
    • Never saw much (any?) deployment
  – **2005**: IRIS – RFC3981ff
    • XML based „Internet Registry Information Service“
    • Never saw much deployment either – remember „CRISP“?
  – **2015**: RDAP – RFC7480ff
    • „This time we’ll get it right“ – JSON/HTTP/REST based
    • There’s deployment!! Yay!
  – **2025**: ?
RDAP involvement @ nic.at

• gTLDs
  – We operate several new gTLDs („Registry-in-a-Box“)
  – ICANN required (..) registries to deploy RDAP
  – Implementation – currently in testing stage
  – ICANN changed plans... News! RDAP pilot program!

• Standardization
  – IETF „regext“ group
  – RDAP profiles + extensions

• .at
  – Currently no plans / pressure to deploy RDAP
  – Not a software problem ... layer 7+
(a brief break from text-only)
Challenges!

• **Flexibility / Extensibility**
  – RDAP has a lot of „options“ – great!
  – But that also means a lot of decisions..
  – ICANN’s „RDAP Operational Profile“ (gTLDs..)

• **Search functionality**
  – RDAP is not only „lookup“ – it can do „search“ too
  – But do we want to offer that?
  – Does it collide with data protection regulations?

• **Authentication + Authorization**
  – Yay, we could authenticate/limit clients!
  – But… how do we manage access credentials?
  – Requires a policy („who sees what..?“)
Roadmap @ nic.at

• Participation in ICANN RDAP pilot?
  – gTLDs only
  – Currently under discussion – Q4/2017 or Q1/2018

• gTLD „production“ RDAP after pilot?
  – If required / granted by ICANN
  – Q3/2018 (?)
  – Will significantly push RDAP deployment (client side!)
  – Phasing out WHOIS?

• RDAP for .at?
  – No plans atm
  – „Let’s take a look, and then we’ll see“
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