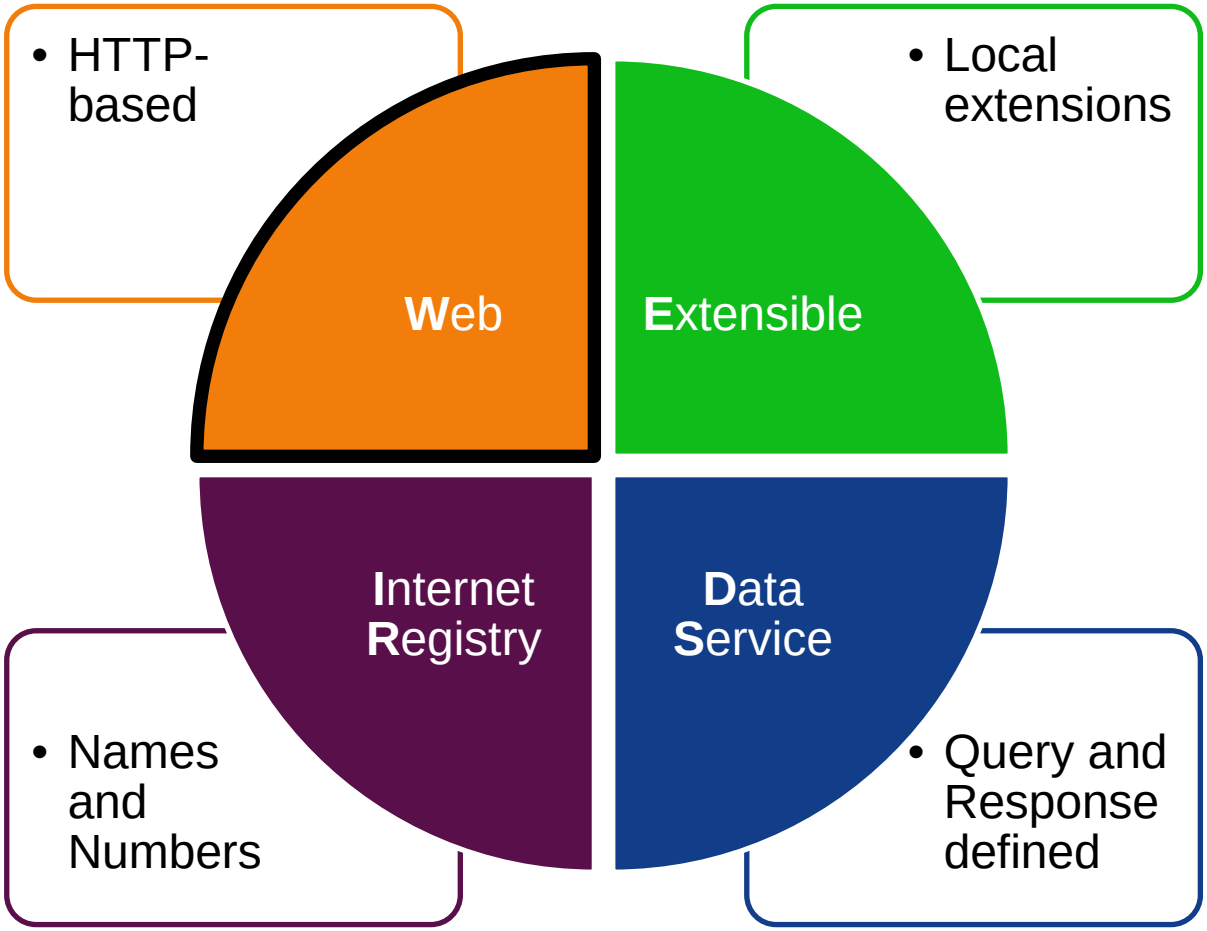
RDAP, by the WEIRDS WG

Registry Data Access Protocol

Web Extensible Internet Registry Data Service Working Group

APNIC

Introduction



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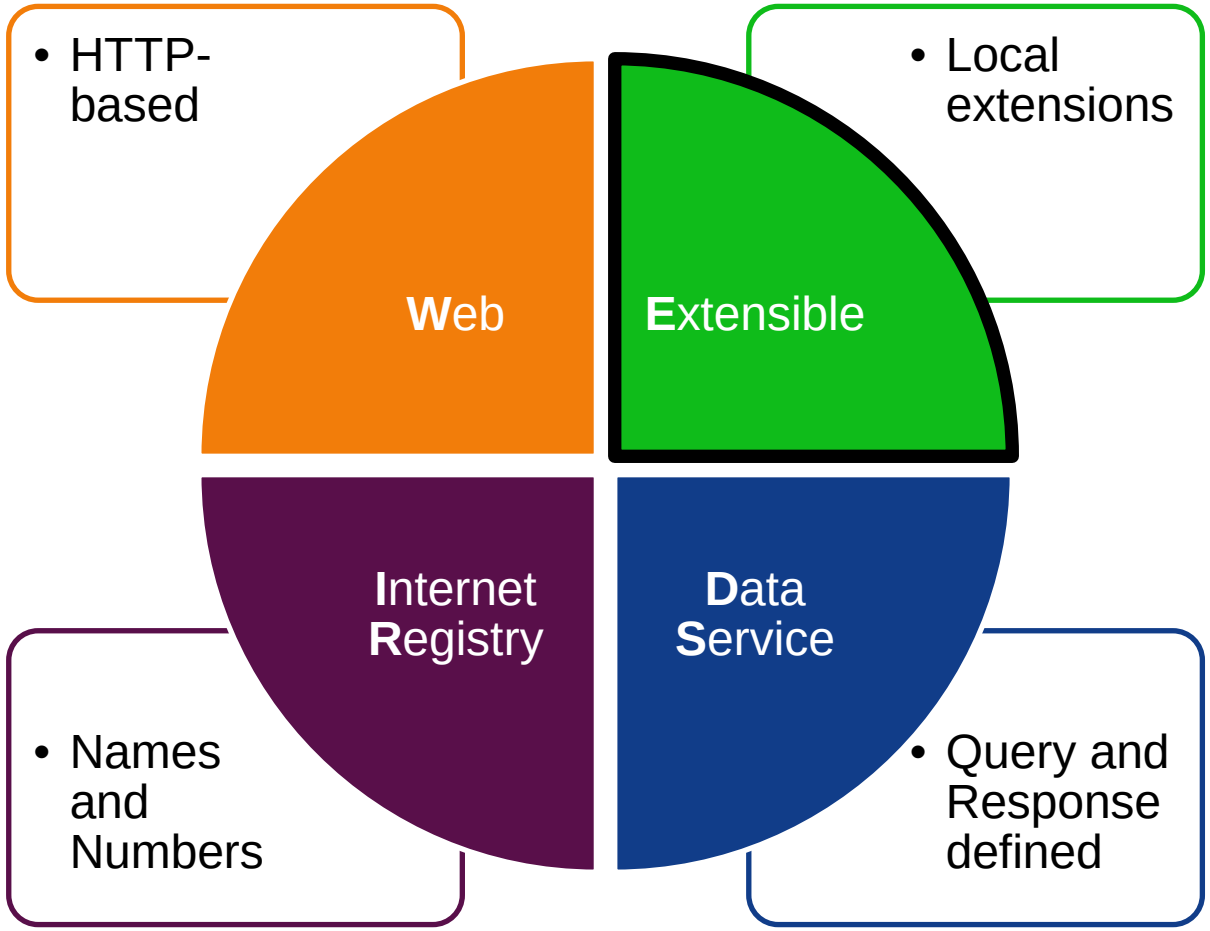

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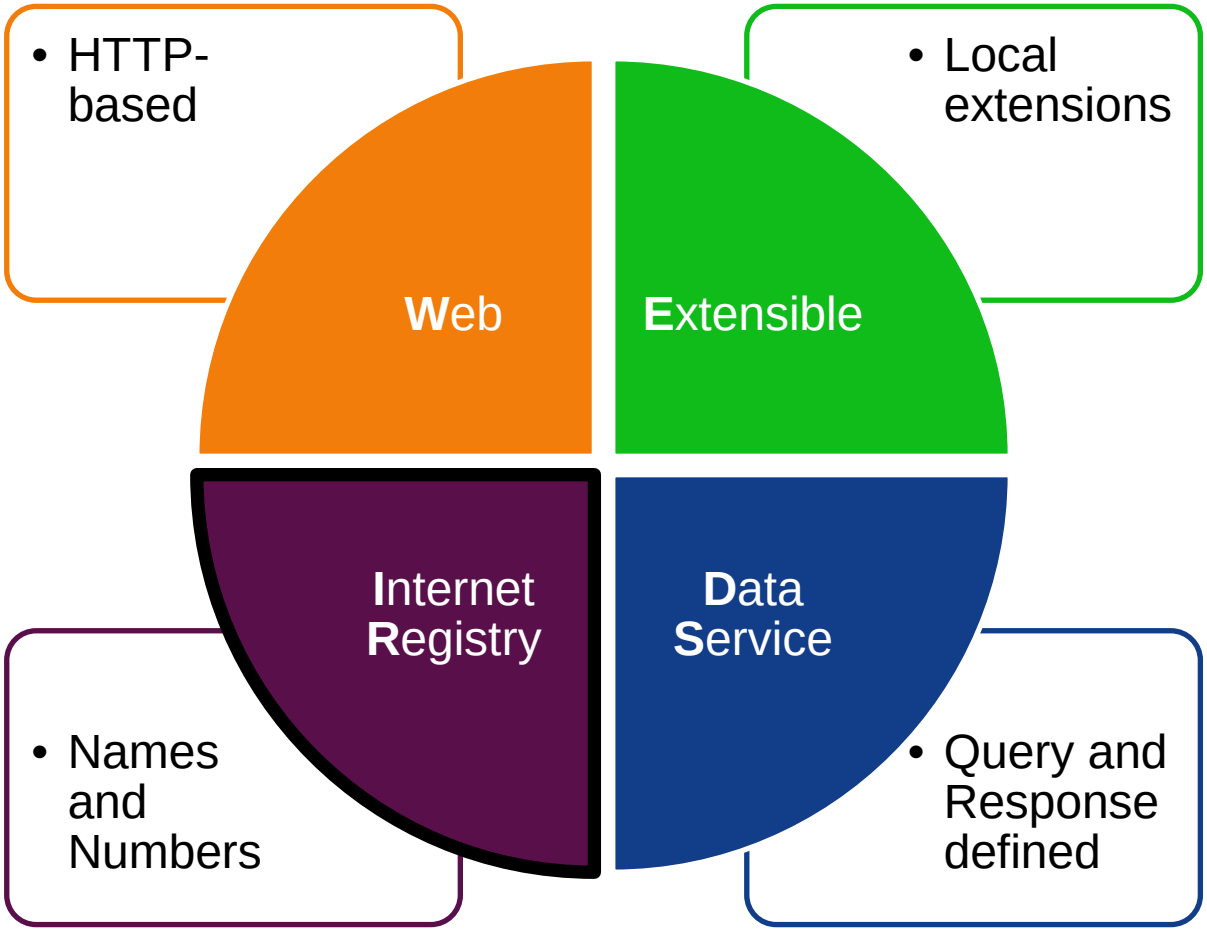

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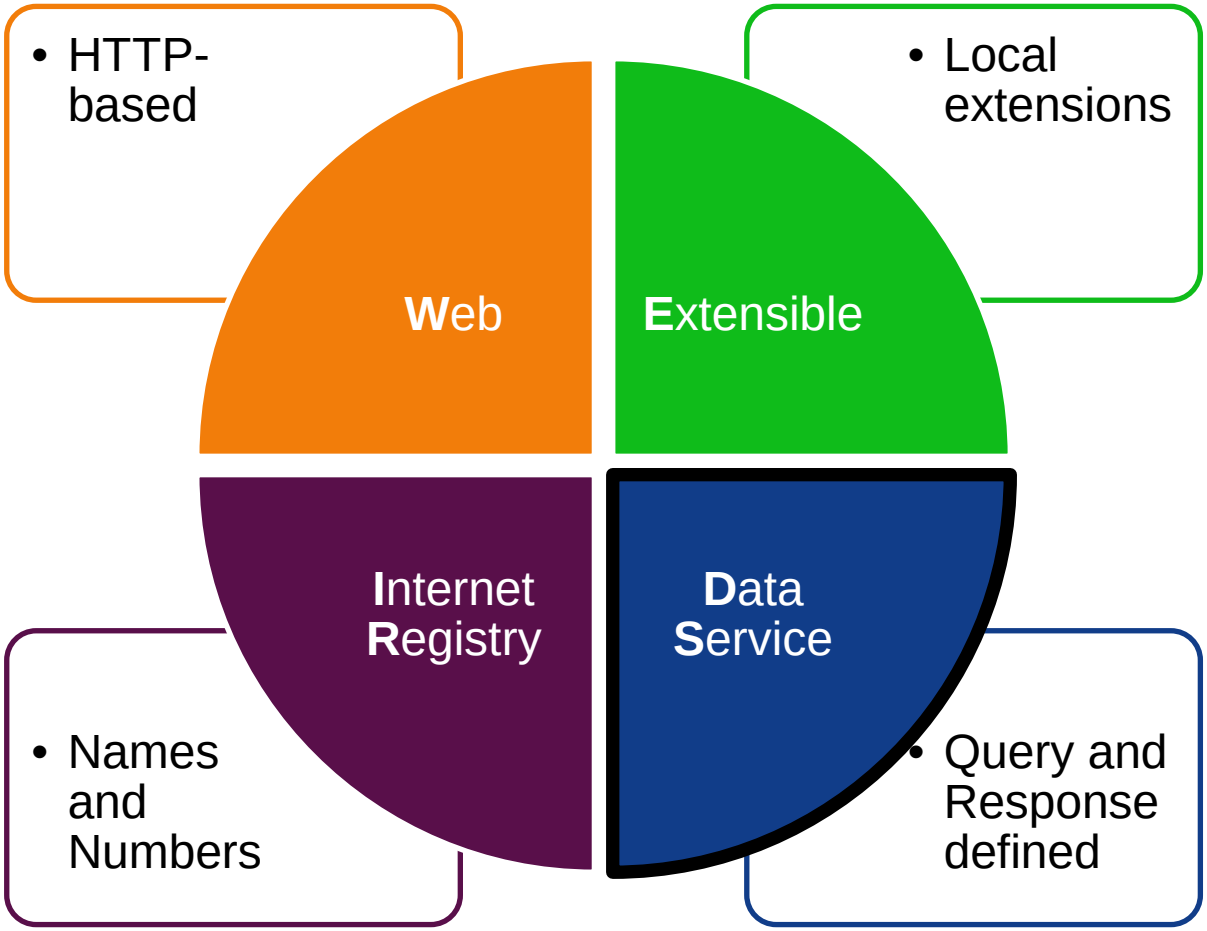


RDAP vs WHOIS

FEATURE	WHOIS	RDAP
Extensible for registry-specific data	✔	✔
Structured query and response format		✔
International character set support		✔
Authorization and Authentication		✔
Redirection to authoritative sources		✔
Lightweight transactional protocol	✔	✔
Data dictionary for core data		✔
Read-only protocol	✔	✔

Key Benefits

- Internationalization support (IDNs, UTF-8)
- Standardization of queries and responses
- Authorization and Authentication support
  - Differential service levels for, eg, LEA
- Redirection to authoritative sources
  - http://rdap.org/ presents single query point for:
    - APNIC, ARIN, Lacnic, CentralNIC, and Verisign
- These are *technical* challenges for WHOIS

Policy Enablement

- RDAP *enables* policy decisions, but does not make them
  - Which data must be presented in a result?
  - What (class of) user can view data?
  - How frequently may a user ask for data?
  - What languages/scripts should be supported?
  - What search terms are permitted?

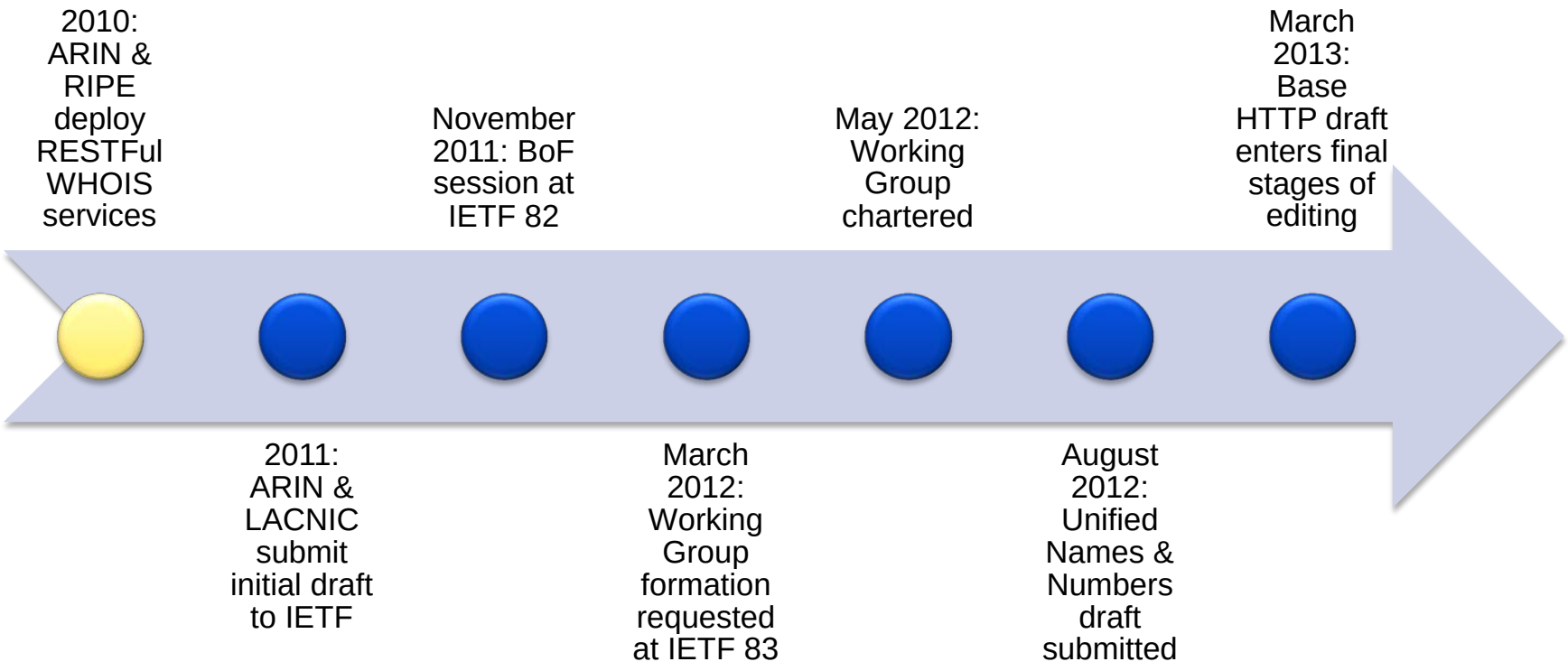
Data Quality

- RDAP does not alter data
  - RDAP defines how to transport and frame data
- Data quality projects are orthogonal to RDAP
  - contact verification processes continue
- RDAP is constrained by existing data
  - Addresses will be structured where possible
  - But unstructured as a fallback!

RIR Cooperative Work

- NRO Engineering Coordination Group
  - Meets face to face at IETFs
  - Teleconferences as needed
  - E-mail list for more frequent communication
- WEIRDS is a collaborative outcome of the ECG
  - Survey of RIR WHOIS systems
  - Common model for data and API
  - Outcome taken to IETF for standardization

History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November 2011: BoF session at IETF 82
March 2012: Working Group formation requested at IETF 83
May 2012: Working Group chartered
August 2012: Unified Names & Numbers draft submitted
March 2013: Base HTTP draft enters final stages of editing

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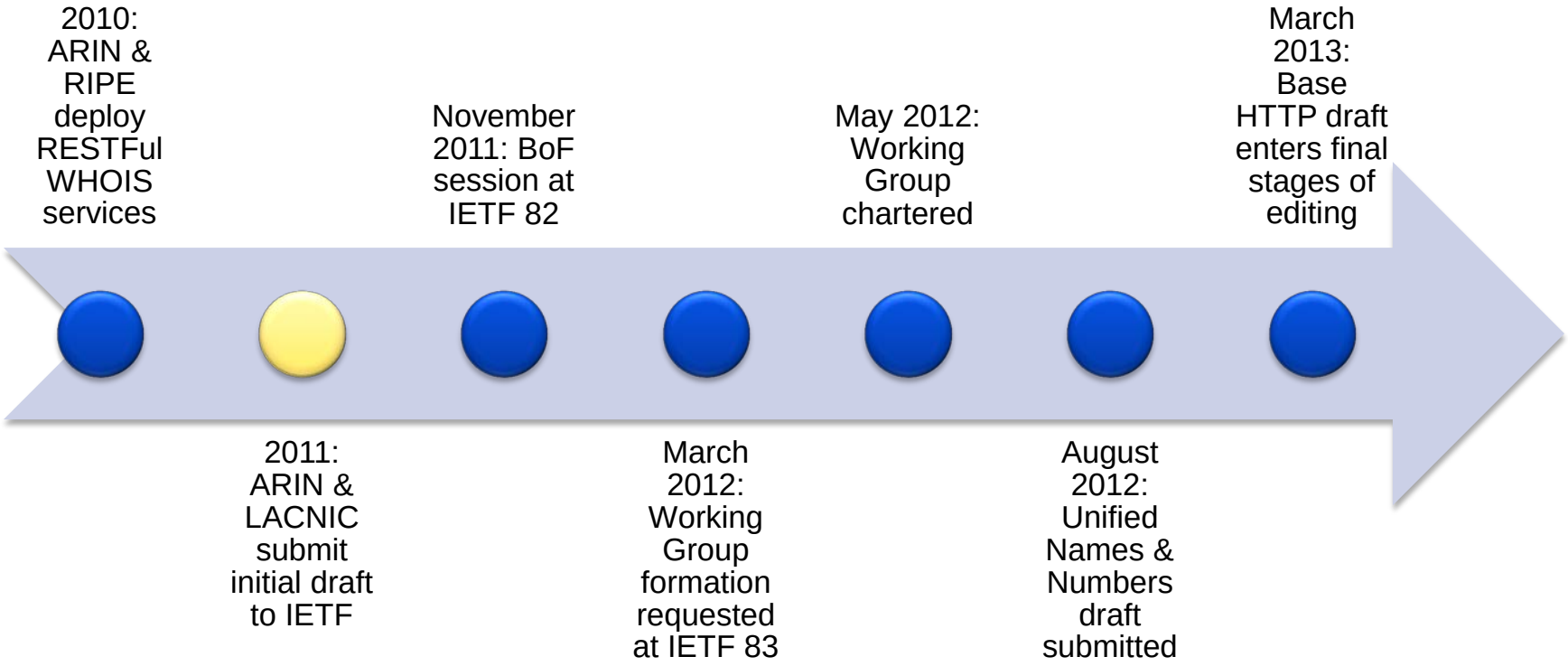
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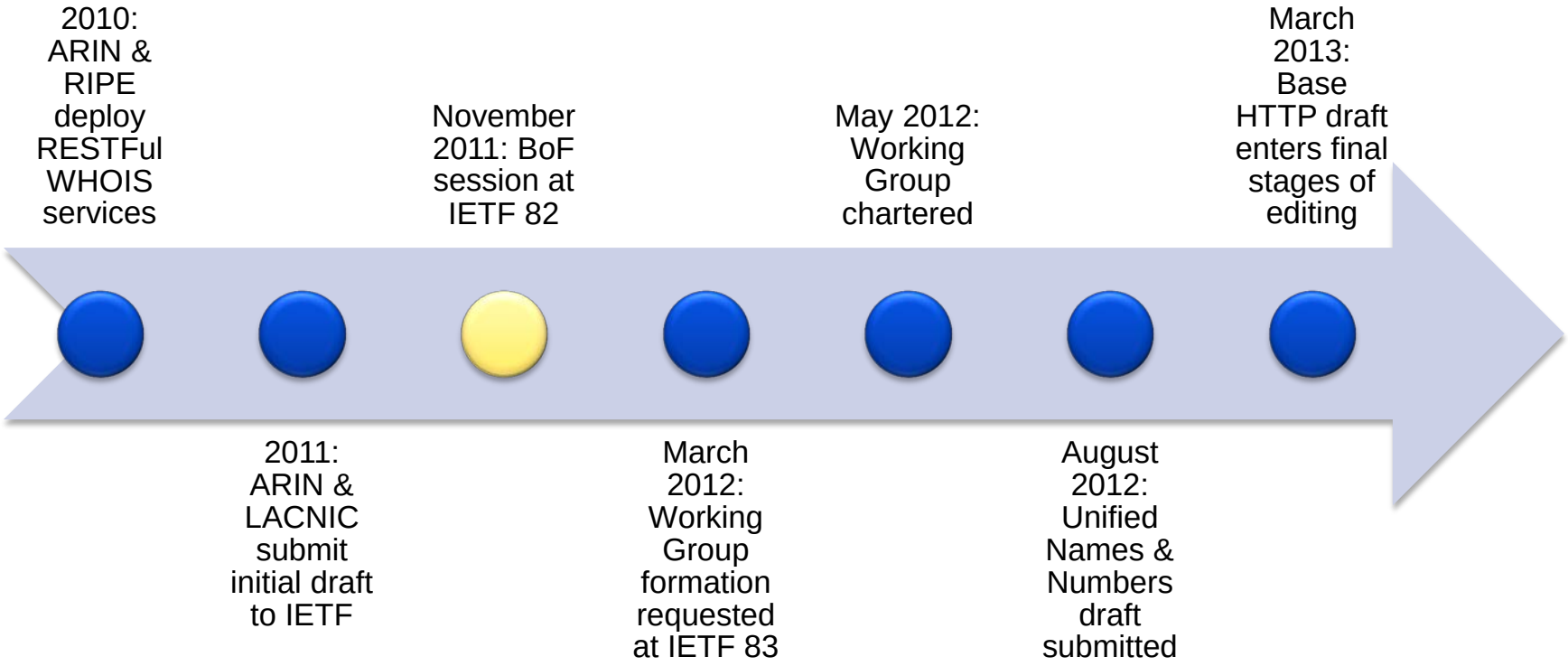
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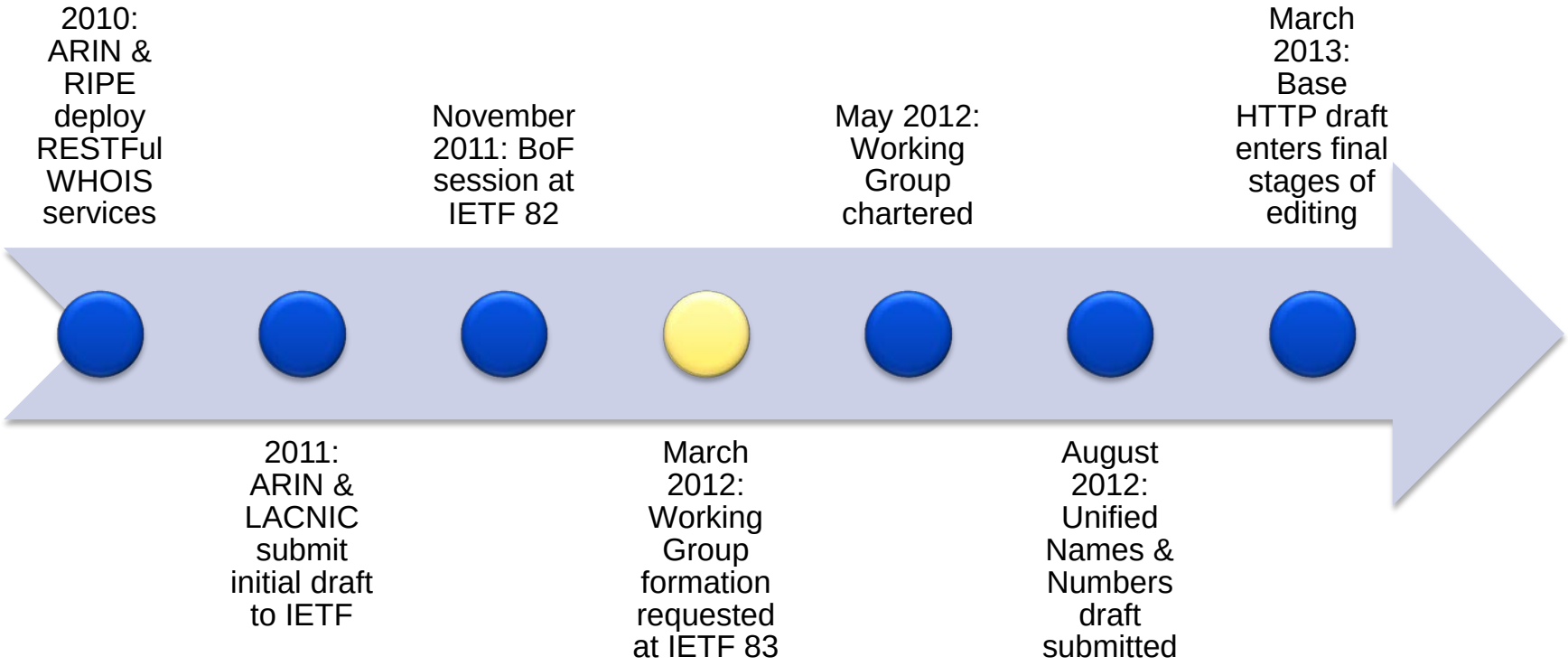
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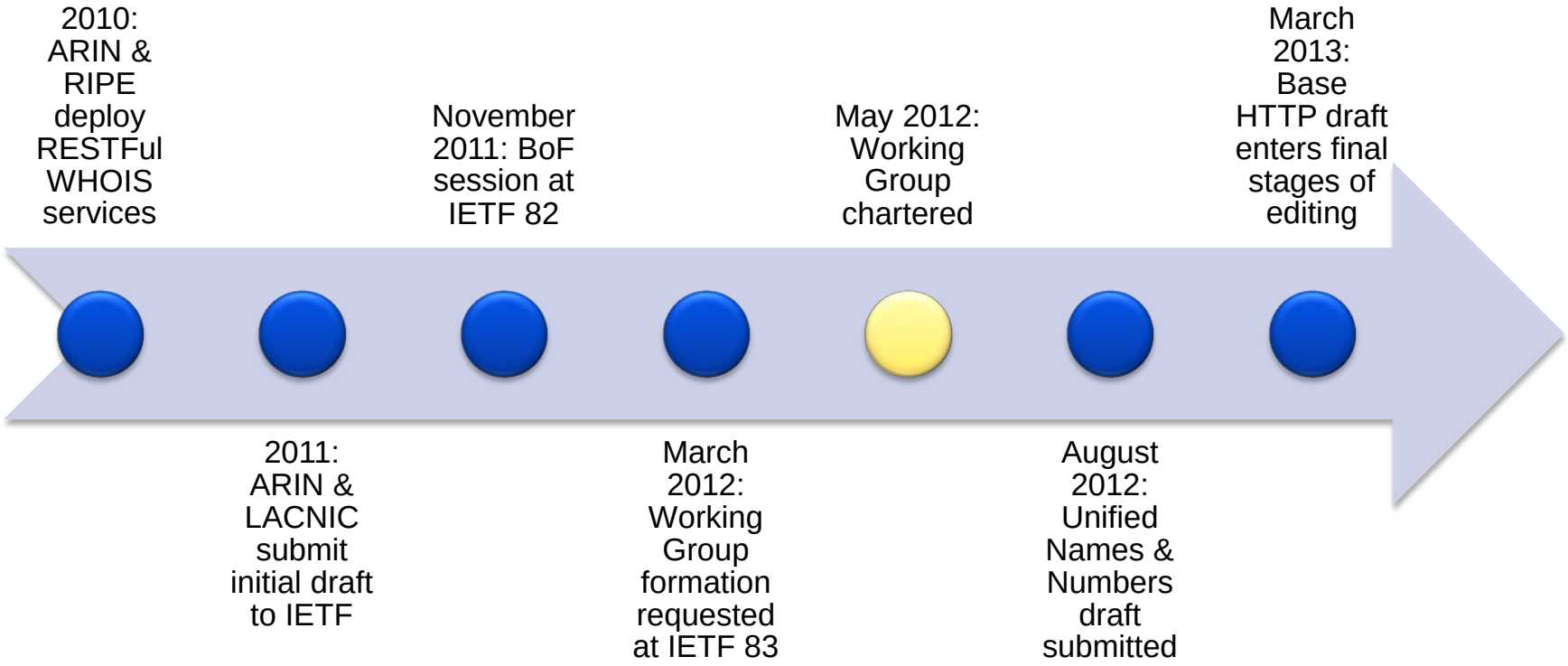
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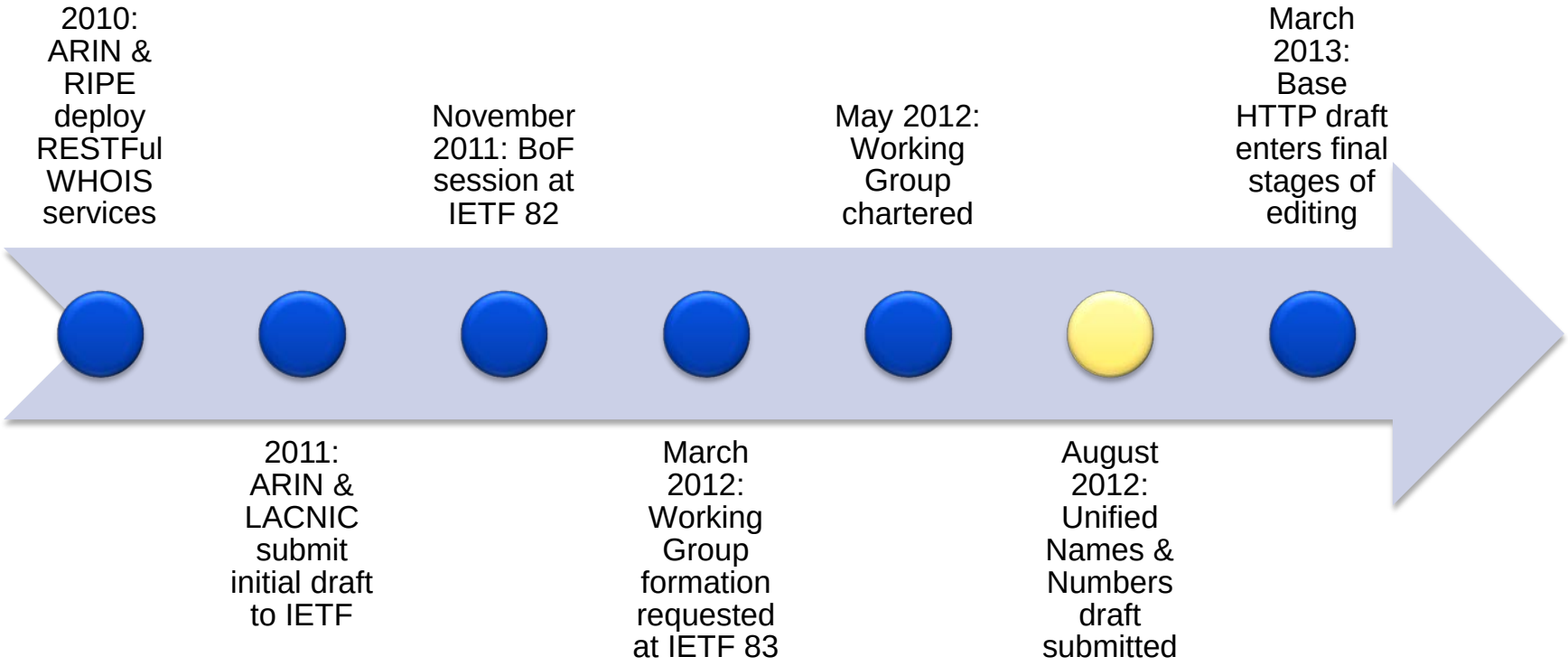
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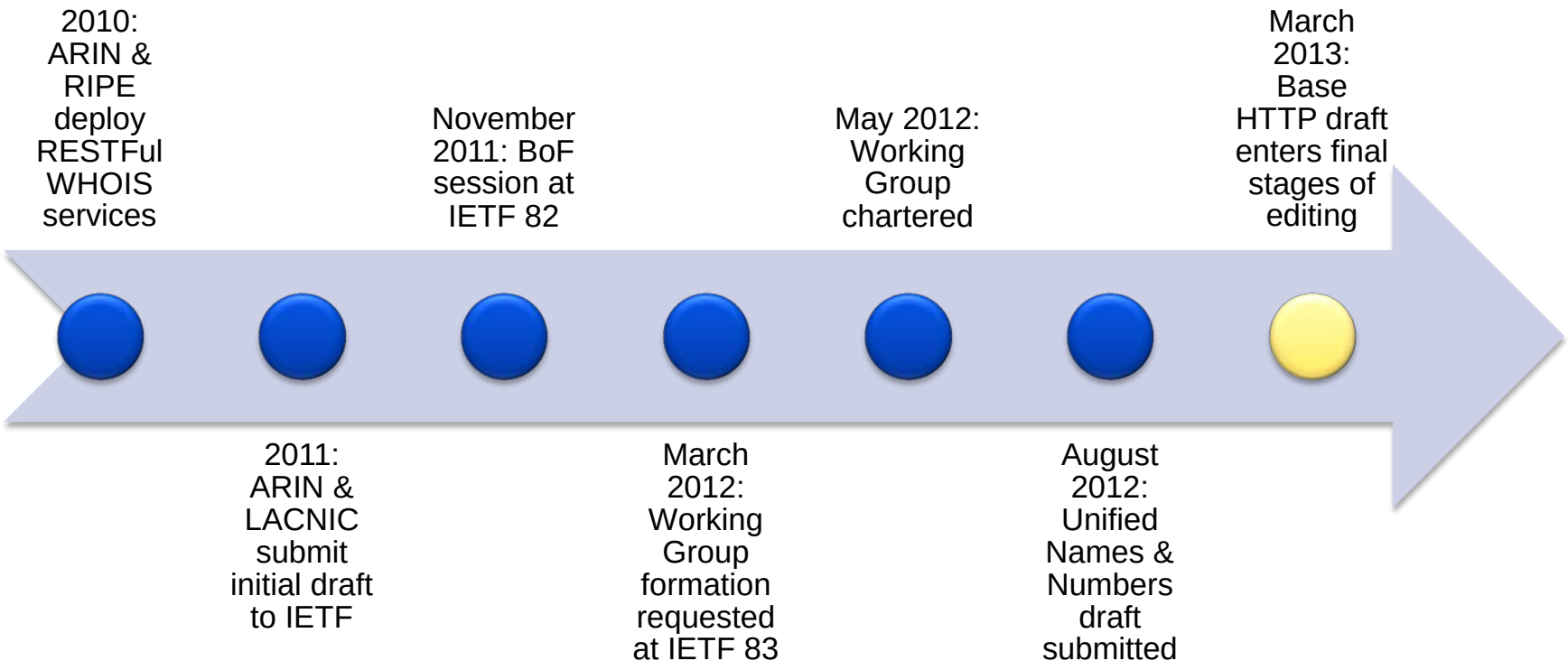
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Open Source Initiatives

- Open Source development, CNNIC+ICANN partnership
  - http://www.restfulwhois.org/
  - Target completion: December 2013

- Open Source 43+80 server, lead by RIPE NCC
  - To be made available this year
  - Target completion: August 2013

Summary

- Key benefits are technical
  - I18n, structure, authentication
- Policy enabling technology, not policy making
- Cooperative work by names and numbers

Thank you

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APNIC