TRTF work (IETF Feedbacks)
Vincent Levigneron/Stéphane Bortzmeyer
Background

✓ Zonemaster roots
  ✓ Aim to create a state-of-the-art checking tool for internet domain names
  ✓ Project started in October 2013
  ✓ Joint IIS/AFNIC-labs Team (requirements, specifications, implementation, …)
  ✓ Stable and publicly announced released in February 2015
  ✓ CENTR « Tests Requirements Task Force » created just after the first release

✓ Zonemaster in brief
  ✓ Opensource (GitHub) project written in Perl (+javascript)
  ✓ Process hundreds of tests
  ✓ Provides CLI/Web/API interfaces (can be tailored for your needs)
  ✓ Provides high/medium/low levels of output
  ✓ Outputs in English, French, Swedish
  ✓ IS BASED ON COMMON/DISCUSSED/PUBLIC/DOCUMENTED TEST SPECIFICATIONS
    https://github.com/dotse/zonemaster/tree/master/docs/specifications/tests
Other requirements sources...

✓ IANA Requirements
  ✓ IANA technical requirements for authoritative name servers
    ✓ Set of conformance criteria evaluated by ICANN for changes in IANA managed zones
    ✓ Check NS reacability, DNSKEY/DS matching
    ✓ Reference many RFCs
    ✓ [https://www.iana.org/help/nameserver-requirements](https://www.iana.org/help/nameserver-requirements)
  ✓ Processing time, in case of issue in delegation configuration, can be long
    ✓ It might be better to check conformances before sending a change request to IANA

✓ ICANN PDT
  ✓ IIS, new gTLD Pre-Delegation Testing (PDT) Service Provider for ICANN
    ✓ PDT addresses DNS, Whois, EPP, IDN, Data Escrow, Documentation

✓ Self-Test Tools
  ✓ For DNS, DNScheck is still the reference

✓ If PDT fails, gTLD is not delegated
The draft

✓ Zonemaster requirements → TRTF → draft-wallstrom-dnsop-dns-delegation-00.txt (February 2016)

✓ First intention was “informative document” about operational considerations.

✓ Authors: Patrik Wallström (IIS), Jakob Schlyter (Kirei)

✓ Purposes:
  ✓ Requirements to set up a fully functional DNS delegation for a domain name.
  ✓ Create a set of tests specifications for how to test a DNS delegation

✓ Organized in 8 categories
  ✓ Basic
  ✓ Address
  ✓ Connectivity
  ✓ Consistency
  ✓ Delegation
  ✓ DNSSEC
  ✓ Name Server
  ✓ Syntax
IETF Presentation of the draft

✓ During second session of DNSOP WG @IETF95 (Buenos Aires) by Vincent Levigneron (AFNIC)

✓ Goal is to reach consensus on:
  ✓ Organization of the document
  ✓ Categories of requirements (remove/add ?)
  ✓ RFC level of compliance (rephrase requirements as many as necessary)

✓ There are already some feedbacks on ML
  ✓ Add new requirements (about TTL values ?)
  ✓ Soften language (Limit MUST/SHOULD usage)
  ✓ Controversal requirements
    ✓ Domain names vs hosts names
    ✓ Way to check networks/ASNs…

✓ Is document ready to be a WG item ?

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IETF Feedback

✓ Strong support for this draft
✓ *Everybody seemed to support the initiative, but* …
  ✓ Some few are skeptical about the future success of this work
    ✓ DNS is now very complicated and this kind of work already happened in past DNS WGs… and it was a failure…
    ✓ Are we (DNSOP people) able to reach consensus on these things ?
✓ Some suggest it should stay an informational document *(remove MUST/SHOULD references…) when other suggest it could be a more normative BCP
✓ Requirements, in the document must clearly reference the previous DNS RFCs
✓ Despite these remarks, there has been a strong humming for that the document to be adopted as a WG item (no one against)
What’s next...

✓ Add missing parts in the next revision of the draft (name server section for instance)
✓ *Decide if it has to be an “informational document” or a more normative one* (modify text accordingly)
✓ Reach consensus on ML about set of requirements
✓ Check that all requirements point to DNS RFCs
✓ … *And provide a zonemaster profile tailored for this draft*
Thank you!