

Update on DNSSEC Activities at the IETF
ICANN 58 – Copenhagen
March 15, 2017



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Internet Engineering Task Force (IETF)

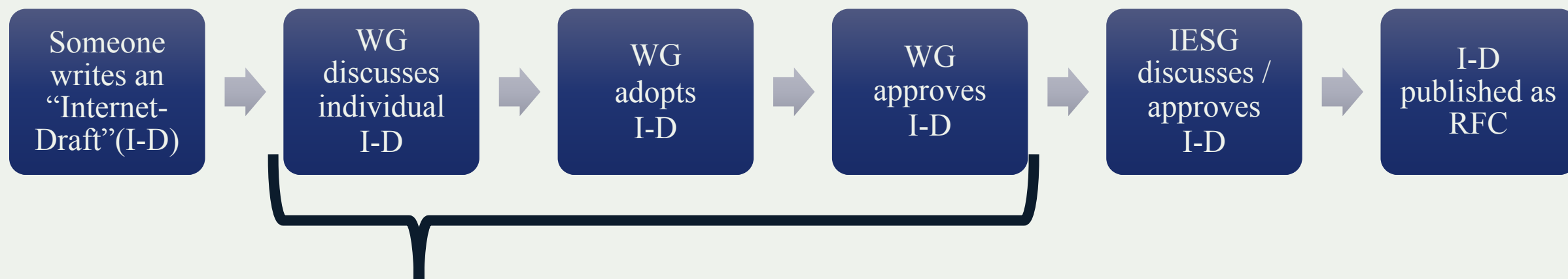
- Internet Engineering Task Force creates the standards used for the Internet
 - Request for Comments (RFCs)
- IETF activity organized into “Working Groups” (WGs)
- WGs established with a “charter” of the standards they are expected to create
- WGs “closed” when the standards are completed and published
- “Birds of a Feather” sessions (BOFs) occasionally take place to bring new work into the IETF
- Anyone can participate in a WG via the email list
- Anyone can submit an “Internet Draft”



Primary Task Of Working Groups

Creation of standards documents (RFCs)

Simplified version... (leaving out a few end steps)



The activities that typically happen at a face-to-face IETF meeting.



IETF Meetings

- IETF working groups do their primary work by email
- Three times a year the IETF gathers in different parts of the world to meet face-to-face for one week
- Upcoming meetings
 - IETF 98 – Chicago – March 2017
 - IETF 99 – Prague – July 2017
 - IETF 100 – Singapore – November 2017



DNS Security Activity at IETF in 2017

- **DNS Operations (DNSOP)**
 - Focused on operations and deployment aspects of DNS
 - Primary place where DNSSEC-related activity occurs
 - RFC 8078 – Managing DS Records with CDS/CDNSKEY - <https://tools.ietf.org/html/rfc8078>
 - Aggressive NSEC Caching - <https://tools.ietf.org/html/draft-ietf-dnsop-nsec-aggressiveuse-08>
- **DANE**
 - Created DANE protocol for TLS
 - In the process of finishing up its work
- **DNS Privacy (DPRIVE)**
 - Focused on DNS privacy – ex. DNS over TLS
 - RFC 7858 – DNS over TLS - <https://tools.ietf.org/html/rfc7858>
 - RFC 8094 – DNS over DTLS - <https://tools.ietf.org/html/rfc8094>
- **CURDLE**
 - RFC 8080 – EdDSA for DNSSEC - <https://tools.ietf.org/html/rfc8080>

IETF 98 - Chicago

- March 26-31 - <https://www.ietf.org/meeting/98/index.html>
- DNS-related activity:
 - **IETF 98 Hackathon** – Saturday and Sunday
 - **DNS Operations (DNSOP)**
 - Monday, March 27 – 13:00-15:00 CST
 - Remote participation possible
 - <https://tools.ietf.org/wg/dnsop/>
 - **Security Area (SAAG)**
 - NSEC5 draft / discussion

Thank you.

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