

Internet Engineering Task Force Overview

June 2019



The IETF and Related Organizations

IETF Mission

<https://www.ietf.org/about/mission/>

The mission of the IETF is to make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet.

[[RFC 3935](#)]



The IETF is ...

- A Standards Development Organization (SDO)
- With self-selected individual participants, no formal membership
- No formal voting (but we do hum...)
- No formal government role
- Driven by market-based adoption (a *real* standard is one people use)
- Focused on Internet technologies
- Bottom-up... and unique!

IETF Areas

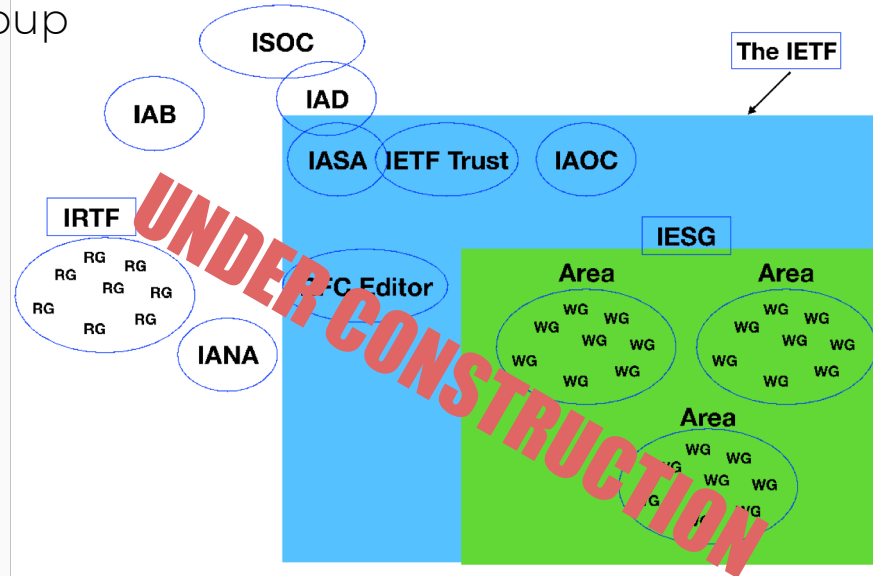
Applications and Real-Time (ART)	<ul style="list-style-type: none">• Application protocols and architectures• Real-time (communication) and non-real-time
Transport (TSV)	<ul style="list-style-type: none">• Mechanisms related to data transport on the Internet<ul style="list-style-type: none">- Includes congestion control
Routing (RTG)	<ul style="list-style-type: none">• Routing and signaling protocols
Internet (INT)	<ul style="list-style-type: none">• IPv4/IPv6, DNS, DHCP, mobility
Operations and Management (OPS)	<ul style="list-style-type: none">• Network management• Operations: IPv6, DNS, security, routing
Security (SEC)	<ul style="list-style-type: none">• Security protocols and mechanisms
General (GEN)	<ul style="list-style-type: none">• Activities focused on supporting and updating IETF processes

The IETF and Consensus

- IETF mantra:
 - “We reject kings, presidents and voting. We believe in rough consensus and running code.”
- Rough consensus is achieved when all issues are addressed, but not necessarily accommodated
- Dissenting opinions are heard, but are not controlling
- Humming: a way of measuring consensus that is not voting
- Session chair is responsible for building consensus
- WG mailing list consensus has to be taken into account
- “On Consensus and Humming in the IETF”, P. Resnick, [[RFC 7282](#)]

Alphabet soup

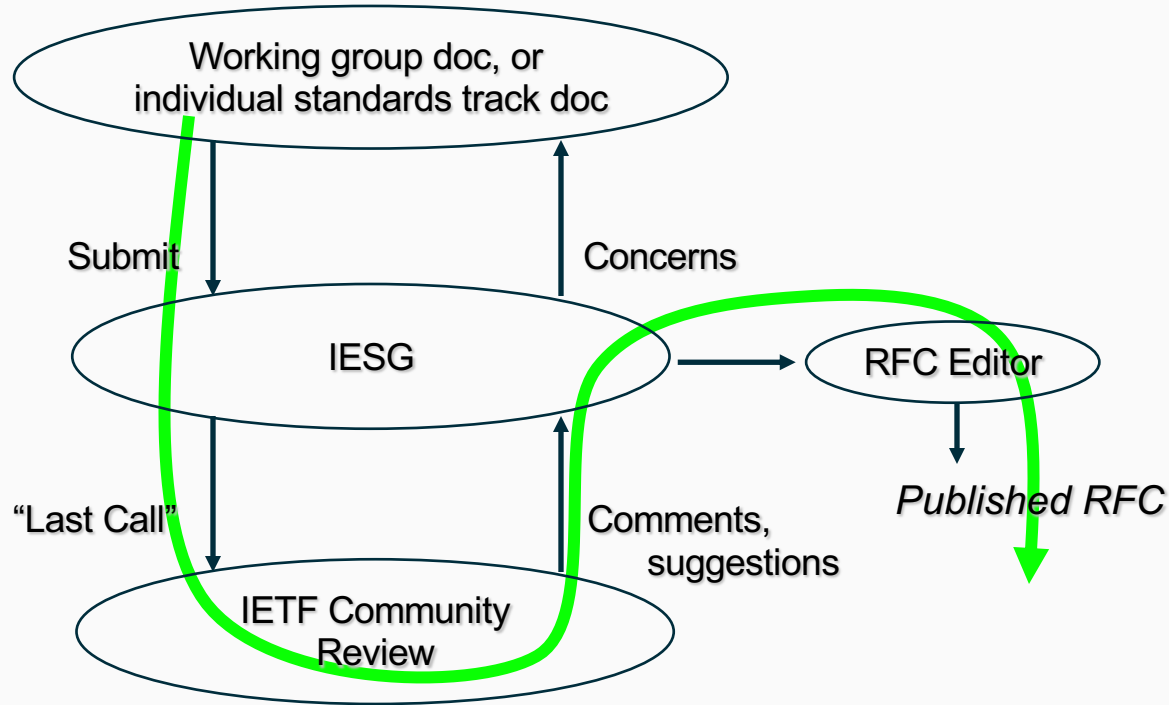
- **IESG** -- Internet **E**ngineering **S**teering **G**roup
 - Areas and Working Groups here!
- **IRTF** -- Internet **R**esearch **T**ask **F**orce
 - Research Groups here!
- **IAB** -- Internet **A**rchitecture **B**oard
- **IETF LLC** -- **IETF Administration LLC**
- **IETF Executive Director**



Who does what?

- **IESG:** responsible for technical management of IETF activities and the Internet standards process
- **IRTF:** a parallel organization focused on longer-term research topics for the Internet
- **IAB:** provides oversight of the Internet architecture and the standards process
- **IETF LLC:** provides the corporate legal home for the IETF, the IAB, and the IRTF; provides fiscal and administrative su

IETF Submission



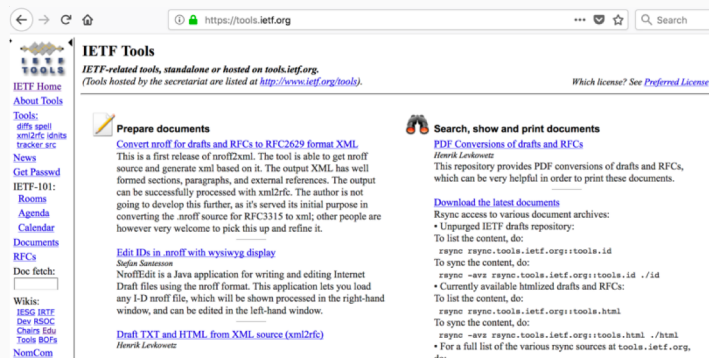
Information

The Tao of IETF

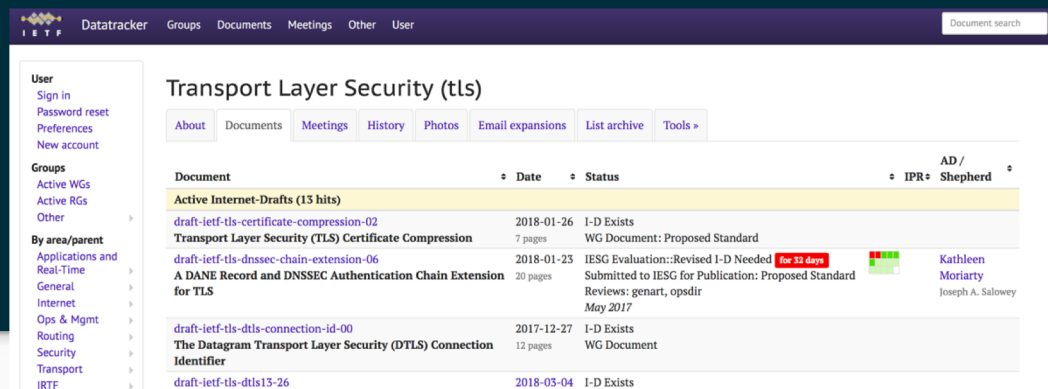
<https://www.ietf.org/about/participate/tao/>

Process-oriented tutorials

<https://www.ietf.org/about/participate/tutorials/process/>



The screenshot shows the IETF Tools page. It features a sidebar with navigation links like IETF Home, About Tools, Tools, and Wikis. The main content area is titled 'IETF Tools' and includes sections for 'Prepare documents' (converting .nroff to XML), 'Search, show and print documents' (PDF conversions), and 'Download the latest documents' (Rsync access to document archives).



The screenshot shows the IETF Datatracker page for 'Transport Layer Security (tls)'. It includes a sidebar with navigation links like User, Groups, and By area/parent. The main content area displays a table of documents, including 'draft-ietf-tls-certificate-compression-02', 'draft-ietf-tls-dnssec-chain-extension-06', and 'draft-ietf-tls-dtls-connection-id-00'. The table columns are Document, Date, and Status.

IETF Datatracker

<https://datatracker.ietf.org/>

Tools Page

<https://tools.ietf.org/>

IETF108 in Madrid 25-31 July 2020

Host: Ericsson

- Start participating now, register in your preferred WGs!
- Soon webpage with lots of local info

Questions?