



How can R&E Networking & IETF work together?

Marcomms edition

Greg Wood

Director of Communications and Operations
IETF Administration LLC

Two questions For discussion

Why should the Internet Engineering Task Force and NREN communities be better connected?

How can the the NREN community and IETF communities work together?



Make the Internet work better by producing high quality, relevant technical documents that influence the way people design, use, and manage the Internet.

We build technical excellence, and we are proud to publish the **highest quality work** that moves the world forward.

We develop **Internet standards**.

We invite new minds to join in **defining the future**.

Examples of IETF Protocols in Action:

Domain Name System **DNS, DNSSEC**

Email **IMAP, POP, SMTP**

World Wide Web transport **HTTP, HTTP/2**

Internet Protocol **IPv4, IPv6**

Web browser-based communication **RTCWEB**

Instant Messaging **XMPP**

Transmission Control Protocol **TCP**

Open Shortest Path First **OSPF**

Border Gateway Protocol **BGP**



Current areas of IETF Work

IETF Security & Privacy

Integrating security and privacy into Internet protocols

TLS 1.3 ACME

TLS 1.3 adoption in the first 5 months since release was greater than the first 5 years of the previous version.

Internet Of Things

Addressing the wide variety of devices and uses

MUD

MUD is a focus for IoT security by organizations like the US NIST.

New Transport Technology

Adapting network transport protocols for modern applications

QUIC

QUIC already has been implemented by web browsers and platforms and its use is expected to rapidly increase.

Automated Network Management

Improving the management of networks growing in size and complexity

YANG

Thousands of models have been contributed by a broad community of contributors.

Who and why?

Some ideas

R&E network engineers

Stay up-to-date on and influence emerging networking technologies

Computer science and network engineering students

Learn about new technologies and meet leaders in the field

Researchers and faculty

Participate in leading-edge applied networking research from industry and academia



Opportunities Possibilities

Working Groups

Anyone can join any IETF working group mailing list at anytime

IETF Hackathons

Develop “running code” alongside experts, [next edition](#) is online 20-24 July

IETF Meetings

Gather with leading technologists from around the world, [IETF 108](#) on 25-31 July 2020 (student pricing available)

Applied Network Research Workshop

IRTF-led [ANRW2020](#) event provides a forum for researchers, vendors, network operators, and the Internet standards community



Two questions For discussion

Why should the Internet Engineering Task Force and NREN communities be better connected?

How can the the NREN community and IETF communities work together?





Thank you

Greg Wood
ghwood@ietf.org