



# IETF 105 (July 2019)

Sanjay Mishra, IG, 9<sup>th</sup> 10<sup>th</sup> Sep., 2019



# IETF 105, July, 20-July 26, 2019, Montreal, Canada

- Hackathon @Montreal (July 20/21, 2019):
  - Over 300 participants worked on over 40 projects representing most IETF working groups
  - Hackathon Presentations: <https://github.com/IETF-Hackathon/ietf105-project-presentations>
  - Hackathon Blog: [https://www.ietf.org/blog/how-many-words/?primary\\_topic=6&](https://www.ietf.org/blog/how-many-words/?primary_topic=6&)
- Applied Networking Research Workshop (July 22, 2019)
  - Covered several topics including HTTP/2 vs QUIC; QUIC Measurements, DNS, DOT, DOH: <https://irtf.org/anrw/2019/program.html>
- Potential new work in the IETF
  - IETF 105 Preview: [https://www.ietf.org/blog/ietf105-preview/?primary\\_topic=6&](https://www.ietf.org/blog/ietf105-preview/?primary_topic=6&)
    - MOPS: To focus on Operational issues related to the deployment, engineering, and operation of media streaming: <https://datatracker.ietf.org/meeting/105/materials/slides-105-mops-mops-ietf-105-chair-slides-02>



# Applications and Real-Time Area

## Applications Doing DNS (ADD)

Issue: Traditionnel DNS uses plain text to port 53. DOT and DOH add encryption to DNS. Traditionnel DNS model is disrupted. Several issues come to fore, for example,

- Web servers notionally in the role of resolving DNS servers
- Potential for local DNS resolver bypass

But, There is a tussle that

- Some issues might/should be in scope for IETF

Agenda: <https://datatracker.ietf.org/meeting/105/materials/agenda-105-add-04>

Mail Archive: <https://mailarchive.ietf.org/arch/browse/add/>

Meeting Minutes: <https://datatracker.ietf.org/meeting/105/materials/minutes-105-add-00.html>

## Secured Telephony identity Revisited (STIR)

Issue: verification of the calling party's authorization to use a particular TN

- STIR working group has received considerable attention from service providers, regulators, and the press because it addresses some of the root causes of the illegal robocalling which has crippled the telephone network (at least in the US)

Agenda: <https://datatracker.ietf.org/meeting/105/materials/agenda-105-stir-01>

Meeting Minutes: <https://datatracker.ietf.org/meeting/105/materials/minutes-105-stir-00>

STIR Primer: [https://www.ietf.org/blog/stir/?primary\\_topic=6&](https://www.ietf.org/blog/stir/?primary_topic=6&)

Current Status:

- Published as [RFC 8224](#) in 2018. This RFC defines a mechanism for securely identifying originators of SIP requests and obsoletes [RFC 4474](#) (defined SIP Identity header field)
- Other key work includes RFC 8225 , [RFC 8226](#) and [RFC 8588](#)



# Applications and Real-Time Area

## CDN Interconnection (CDNI)

CDNI working group charter was expanded to include additional work, specifically:

- Defining Control Interface and Metadata extension to incorporate HTTPS based delegation techniques into CDNI
- Extensions proposed by Streaming Video Alliance (SVA) for adding dynamic announcements for request routing and features for content management. The RFC includes:
  - [HTTPS Delegation in CDNI](#)
  - [Streaming Video Alliance's proposed extensions to Request Routing in CDNI](#)
  - [Streaming Video Alliance's proposed extensions to CDNI-Triggers](#)

Agenda: No Meeting in Montreal

Mail Archive: <https://mailarchive.ietf.org/arch/browse/cdni/>

Meeting Minutes: No meeting in Montreal

## HTTPBIS WG

The HTTP Working Group met over two sessions. The First session focused on Active Drafts. The session focused on HTTP/1.1 (core RFC modularization)

Key Active Drafts:

- [Using TLS 1.3 with HTTP/2](#)
- [Cache HTTP Response Header](#)
- [HTTP Client Hints](#)
- [HTTP/3 Priorities Proposal:](#)
  - Build on H2 priority with similar construct to (tree structure) to give same weightage to all nodes of a tree at same level
- New Work:
  - [HTTPSSVC Record](#)

Agenda: <https://datatracker.ietf.org/meeting/105/materials/agenda-105-httpbis-00>

Meeting Minutes: <https://github.com/httpwg/wg-materials/blob/gh-pages/ietf105/agenda.md>



# Security

## TLS

TLS working group humming along:

- [Issues and Requirements for SNI Encryption in TLS](#)
- [Applying GREASE to TLS Extensibility](#)
- [Exported Authenticators in TLS](#)
- [TLS Certificate Compression](#)

Other key work:

[Delegated Credentials for TLS](#)

Agenda: <https://datatracker.ietf.org/meeting/105/materials/agenda-105-tls-01>

Meeting Minutes: <https://datatracker.ietf.org/meeting/105/materials/minutes-105-tls-00>

## ACME

Various work in progress, but notable item includes generation of short-term certificates and a new method for delegation:

- [Short-Term Certificate](#)
- [STAR Delegation](#)

Agenda: <https://datatracker.ietf.org/meeting/105/materials/agenda-105-acme-04>

Meeting Minutes: <https://datatracker.ietf.org/meeting/105/materials/minutes-105-acme-01>



# Transport

## QUIC

QUIC Wiki:

- <https://github.com/quicwg/base-drafts/wiki/Related-Activities>

Current implementation Drafts (13<sup>th</sup> implementation Draft):

- <https://github.com/quicwg/base-drafts/wiki/13th-Implementation-Draft>

Tracking current Implementations:

- <https://github.com/quicwg/base-drafts/wiki/Implementations>

Hackathon at IETF 105:

- Interop Report (19 implementations)
  - <https://datatracker.ietf.org/meeting/105/materials/minutes-105-quic-00#hackathon--interop-report>

Agenda:

- <https://github.com/quicwg/wg-materials/blob/master/ietf105/agenda.md>

Meeting Minutes:

- <https://datatracker.ietf.org/meeting/105/materials/minutes-105-quic-00>



# IETF 106, Singapore Nov 16 – Nov 22, 2019

- IETF 106, Singapore, 16 Nov to 22 Nov
- Key Dates
  - Early Bird Registration: Sep 30, 2019
  - Cut-off Date for BOF requests: Oct 4, 2019
  - Preliminary Agenda: Oct 18, 2019
  - Final Agenda: Oct 25, 2019
  - Cut-off Date for submitting Internet Drafts: Nov 4, 2019
  - <https://www.ietf.org/how/meetings/106/>



