

Nov. 8, 2024

# IETF 121 SCHC WG

This session is being recorded



# Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (<https://www.ietf.org/contact/ombudsteam/>) if you have questions or concerns about this.

Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- [BCP 9](#) (Internet Standards Process)
- [BCP 25](#) (Working Group processes)
- [BCP 25](#) (Anti-Harassment Procedures)
- [BCP 54](#) (Code of Conduct)
- [BCP 78](#) (Copyright)
- [BCP 79](#) (Patents, Participation)
- <https://www.ietf.org/privacy-policy/>(Privacy Policy)



# Note Really Well

- IETF meetings, virtual meetings, and mailing lists are intended for professional collaboration and networking, as defined in the IETF Guidelines for Conduct (RFC 7154), the IETF Anti-Harassment Policy, and the IETF Anti-Harassment Procedures (RFC 7776). If you have any concerns about observed behavior, please talk to the Ombudsteam, who are available if you need confidentiality to raise concerns confident about harassment or other conduct in the IETF.
- The IETF strives to create and maintain an environment in which people of many different backgrounds and identities are treated with dignity, decency, and respect. Those who participate in the IETF are expected to behave according to professional standards and demonstrate appropriate workplace behavior.
- IETF participants must not engage in harassment while at IETF meetings, virtual meetings, social events, or on mailing lists. Harassment is unwelcome hostile or intimidating behavior—in particular, speech or behavior that is aggressive or intimidates.
- If you believe you have been harassed, notice that someone else is being harassed, or have any other concerns, you are encouraged to raise your concern in confidence with one of the Ombudspersons.

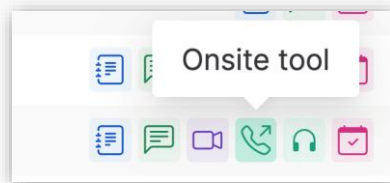


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# IETF 121 Meeting Tips

## In-person participants

- Make sure to sign into the session via Datatracker or the QR Code in this session.
- Use Meetecho (usually the “Meetecho lite”) client to:
  - join the mic queue
  - participate in shows of hands
- *Keep audio and video off if not using the onsite version.*



## Remote participants

- Make sure your audio and video are off unless you are chairing or presenting during a session.
- Use of a headset is strongly recommended.

# Resources for IETF 121 Dublin

- Agenda  
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:  
<https://www.ietf.org/how/meetings/preparation>
- If you need technical assistance, see the Reporting Issues page:  
<http://www.ietf.org/how/meetings/issues/>



# Agenda bashing (1/2)

- |       |  |      |
|-------|--|------|
| 9:30  | Opening, agenda bashing (Chairs) <ul style="list-style-type: none"><li>• Presenter name: Pascal Thubert</li><li>• Note-Well, Scribes, Agenda Bashing, WG / drafts Status</li><li>• IP protocol Number and Ethertype (moved from INTAREA)</li></ul>   | 10mn |
| 9:40  | ICMPv6 draft <ul style="list-style-type: none"><li>• Presenter name: Laurent Toutain</li><li>• Associated draft: draft-ietf-schc-icmpv6-compression</li><li>• Objective of the discussion: Revival Present ICMPv6 and its impact on the architecture document</li></ul>                      | 15mn |
| 9:55  | SCHC Rule Format for Forward Error Correction (FEC) in Fragmentation <ul style="list-style-type: none"><li>• Presenter name: Alexander Pelov</li><li>• Associated draft: draft-pelov-schc-fragmentation-fec-rule-format</li><li>• Objective of the discussion: Update of the draft</li></ul> | 20mn |
| 10:15 | Updating RFC 8824 <ul style="list-style-type: none"><li>• Presenter name: Marco Tiloca</li><li>• Associated draft: draft-tiloca-schc-8824-update</li><li>• Update of the draft</li></ul>   | 10mn |



# Agenda bashing (2/2)

- |       |   |       |
|-------|---|-------|
| 10:25 | Deep Space<br><ul style="list-style-type: none"><li>• Presenter name: Marc Blanchet</li><li>• Objective of the discussion: News of the Deep Space BoF and reqs on SCHC</li></ul>  | 10mn  |
| 10:35 | SCHC for networks susceptible to disruptions (was: Zero Energy Devices)<br><ul style="list-style-type: none"><li>• Presenter name: Edgar Ramos</li><li>• Associated draft: draft-ietf-schc-over-networks-prone-to-disruptions</li><li>• Objective of the discussion: call for adoption, repurposing</li></ul> | 10mn  |
| 10:45 | Secure and autonomic framework for SCHC context management in LoRaWANs<br><ul style="list-style-type: none"><li>• Presenter name: Maryam Hatami</li><li>• Objective of the discussion: Informational</li></ul>  | 15 mn |
| 11:00 | SCHC Action<br><ul style="list-style-type: none"><li>• Presenter name: Ana Minaburo</li><li>• Associated draft: draft-minaburo-schc-flow-compression</li><li>• Objective of the discussion: introduce a new parameter in the Rule: Action.</li><li>• Discuss impact on architecture.</li></ul>                | 10mn  |
| 11:10 | AOB   |       |



# SCHC Document's advancement

Document	Date	Status	IPR	AD/Shepherd
<b>Active Internet-Drafts (4 hits)</b>				
<a href="#">draft-ietf-schc-8824-update-03</a>	88 pages <a href="#">2024-10-21</a>	I-D Exists		
<a href="#">Static Context Header Compression (SCHC) for the Constrained Application Protocol (CoAP)</a>	<b>New</b>	WG Document		
<a href="#">draft-ietf-schc-icmpv6-compression-00</a>	21 pages <a href="#">2024-10-21</a>	I-D Exists		
<a href="#">Static Context Header Compression (SCHC) for the Internet Control Message Protocol (ICMPv6)</a>	<b>New</b>	WG Document		
<a href="#">draft-ietf-schc-over-networks-prone-to-disruptions-00</a>	19 pages <a href="#">2024-08-26</a>	I-D Exists	<b>1</b>	
<a href="#">Static Context Header Compression and Fragmentation over networks prone to disruptions</a>		WG Document		
<a href="#">draft-ietf-schc-protocol-numbers-00</a>	9 pages <a href="#">2024-06-25</a>	I-D Exists		
<a href="#">Protocol Numbers for SCHC</a>		WG Document		
		Reviews: <b>intdir Early</b> <b>tsvart Early</b>		
<b>Expired Internet-Drafts (3 hits)</b>				
<a href="#">draft-ietf-schc-architecture-02</a>	25 pages <a href="#">2024-04-11</a>	Expired	<b>2</b>	
<a href="#">Static Context Header Compression (SCHC) Architecture</a>		WG Document		
<a href="#">draft-ietf-schc-access-control-00</a>	13 pages <a href="#">2023-12-13</a>	Expired	<b>1</b>	
<a href="#">SCHC Access Control</a>		WG Document		
<a href="#">draft-ietf-schc-over-ppp-00</a>	10 pages <a href="#">2023-07-25</a>	Expired	<b>4</b>	
<a href="#">SCHC over PPP</a>		WG Document		
<b>Related Internet-Drafts and RFCs (2 hits)</b>				
<a href="#">draft-pelov-schc-fragmentation-fec-rule-format-00</a>	12 pages <a href="#">2024-09-10</a>	I-D Exists		
<a href="#">SCHC Rule Format for Forward Error Correction (FEC) in Fragmentation</a>				
<a href="#">draft-ietf-intarea-schc-protocol-numbers-02</a>	9 pages <a href="#">2024-04-08</a>	Replaced by <a href="#">draft-ietf-schc-protocol-numbers</a>		
<a href="#">Protocol Numbers for SCHC</a>		WG Document		



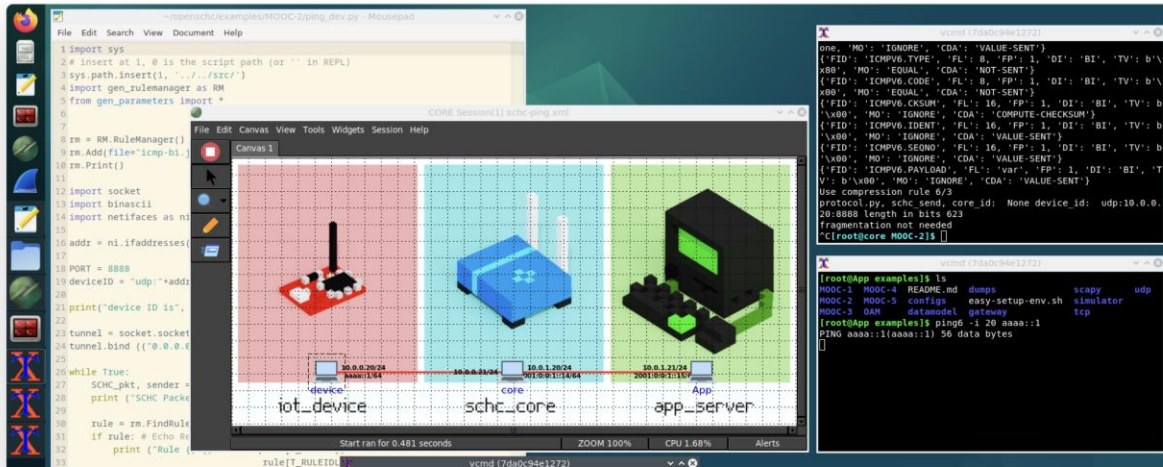


# OpenSCHC VM

Welcome to the OpenSCHC Virtual Machine website! Here, you can download a VM based on Debian 12 (x64) containing the CORE network simulator with the SCHC deployment scenario. This environment enables hands-on exercises, complementing *The book of SCHC* for effective learning.

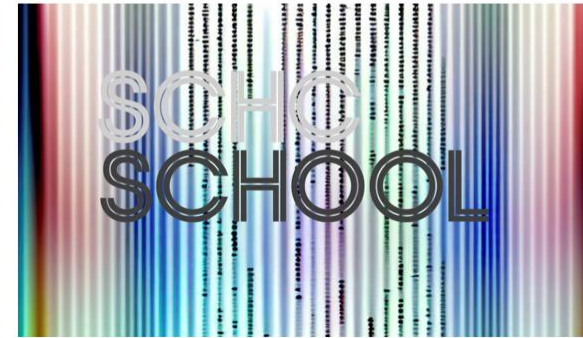


Coming soon: Enroll in our free MOOC on Coursera – stay tuned!



## THE BOOK OF SCHC

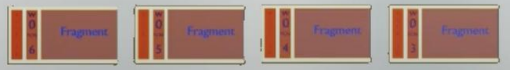
Paul OULTRY



# Sender

Window 0

Window 1



# Receiver

# SCHC Protocol numbers

Issue

[INTDIR Early review by Joseph Touch](#) ✗ Not ready

[TSVART Early review by Mirja Kühlewind](#) ✗ Not ready

[IOTDIR Early Review due 2024-09-01](#) Requested

Proposal

UDP

No real use case

Drop the UDP port number req

TBD sections

Should point on a service

SCHC Architecture

Should be part of it or  
Normative reference

Would delay the allocation

Need better case for IP  
protocol number

explain why SCHC-encoded packets cannot be  
distinguished from IP packets, either from previous  
context or that such context is not available

Refine use case

