

# IETF 115 LPWAN

11 November 2022

This session is being recorded

IETF 115 London  
hosted by



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)

This session is being recorded

# IETF 115 Meeting Tips

## In-person participants

- Make sure to sign into the session using the Meetecho (usually the “Meetecho lite” client) from the Datatracker agenda
- Use Meetecho to join the mic queue
- *Keep audio and video off if not using the onsite version*
- **Wear masks unless actively speaking at the microphone.**



## 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 115 London

- Agenda  
<https://datatracker.ietf.org/meeting/agenda>
- Meetecho and other information:  
<https://www.ietf.org/how/meetings/115/preparation>
- If you need technical assistance, see the Reporting Issues page:  
<http://www.ietf.org/how/meetings/issues/>

12:00	Opening, agenda bashing (Chairs) <ul style="list-style-type: none"><li>• Note-Well, Scribes, Agenda Bashing</li><li>• Status of drafts / WG; need for rechartering</li><li>• Presenter: Alexander Pelov</li></ul>	15mn
12:15	Rechartering <ul style="list-style-type: none"><li>• Presenter: Pascal Thubert</li><li>• Topics: Review proposed work item</li></ul>	15mn
12:30	SCHC Convergence Profile (new work) <ul style="list-style-type: none"><li>• Presenter: Sergio Aguilar</li><li>• Associated drafts: draft-aguilar-lpwan-schc-convergence</li></ul>	10mn
12:40	Need for IDs - Impact on Architecture <ul style="list-style-type: none"><li>• Presenter: Chairs, Laurent Toutain</li><li>• Associated drafts: draft-ietf-lpwan-architecture</li><li>• Topics: Open Mike on need for IDs and their management</li></ul>	45mn
13:25	AOB	QSP

# WG Status

Date	Milestone	Associated documents
Dec 2022	Produce a Standards Track document to enable operations, administration and maintenance (OAM) to the LPWAN device, including support for delayed or proxied liveness verification (Ping)	
Feb 2022	Produce a Standards Track document for SCHC over NBIOT	<a href="#">draft-ietf-lpwan-schc-over-nbiot</a>
Oct 2021	Produce a Standards Track document for SCHC over SigFox	<a href="#">draft-ietf-lpwan-schc-over-sigfox</a>
Feb 2021	Produce a Standards Track document to define the generic data models to formalize the compression and fragmentation contexts for LPWANs	
Dec 2020	Produce Standard Track documents to apply SCHC IPv6/UDP over the baseline technologies	
May 2020	Perform SCHC Maintenance, including enabling SCHC mechanisms for Upper layer Protocols	

# Document's advancement

Getting Ready

Active Internet-Drafts (5 hits)			
<a href="#">draft-ietf-lpwan-architecture-02</a> LPWAN Static Context Header Compression (SCHC) Architecture	14 pages	2022-06-30	I-D Exists WG Document : Informational
<a href="#">draft-ietf-lpwan-schc-compound-ack-07</a> SCHC Compound ACK	21 pages	<a href="#">2022-10-21</a> New	I-D Exists WG Document : Proposed Standard
<a href="#">draft-ietf-lpwan-schc-over-nbiot-12</a> SCHC over NBIoT	23 pages	2022-09-22	IESG Evaluation::Revised I-D Needed Submitted to IESG for Publication : Proposed Standard Reviews: <a href="#">dnsdir</a> <a href="#">tsvart LC</a> <a href="#">ioldir LC</a> <a href="#">opsdir LC</a> <a href="#">secdir LC</a> <a href="#">intdir LC</a> <a href="#">artart LC</a> Feb 2022 Action Holders: <a href="#">Ana Minaburo</a> <a href="#">Éric Vyncke</a> <a href="#">27</a> <a href="#">Edgar Ramos</a>
<a href="#">draft-ietf-lpwan-schc-over-sigfox-13</a> SCHC over Sigfox LPWAN	36 pages	2022-10-10	I-D Exists WG Document : Proposed Standard Oct 2021
<a href="#">draft-ietf-lpwan-schc-yang-data-model-21</a> Data Model for Static Context Header Compression (SCHC)	54 pages	2022-10-09	RFC Ed Queue : <a href="#">EDIT</a> Submitted to IESG for Publication : Proposed Standard Reviews: <a href="#">ioldir</a> <a href="#">intdir LC</a> <a href="#">secdir LC</a> <a href="#">genart LC</a> <a href="#">yangdoctors LC</a> <a href="#">yangdoctors Early</a> <a href="#">opsdir LC</a>
RFCs (4 hits)			
<a href="#">RFC 8376</a> (was <a href="#">draft-ietf-lpwan-overview</a> ) Low-Power Wide Area Network (LPWAN) Overview	43 pages	2018-05	Informational RFC
<a href="#">RFC 8724</a> (was <a href="#">draft-ietf-lpwan-ipv6-static-context-hc</a> ) SCHC: Generic Framework for Static Context Header Compression and Fragmentation	71 pages	2020-04	Proposed Standard RFC
<a href="#">RFC 8824</a> (was <a href="#">draft-ietf-lpwan-coap-static-context-hc</a> ) Static Context Header Compression (SCHC) for the Constrained Application Protocol (CoAP)	30 pages	2021-06	Proposed Standard RFC
<a href="#">RFC 9011</a> (was <a href="#">draft-ietf-lpwan-schc-over-lorawan</a> ) Static Context Header Compression and Fragmentation (SCHC) over LoRaWAN	26 pages	2021-04	Proposed Standard RFC
Related Internet-Drafts (2 hits)			
<a href="#">draft-aguilar-lpwan-schc-convergence-00</a> SCHC Convergence Profile	13 pages	2022-10-24	I-D Exists New
<a href="#">draft-barthel-lpwan-oam-schc-04</a> OAM for LPWAN using Static Context Header Compression (SCHC)	13 pages	<a href="#">2022-10-24</a>	I-D Exists New

- **YANG Data Model:** In editor's queue, being processed
- **NB IoT:** Mostly passed as well
- **Compound Ack:** Ready to submit (Shepherd?)
- **SCHC o' SigFox:** Ready to submit (Shepherd?)
- **OAM:** Still alive (Authors?)
- **Architecture:** Progressed with role assignments;  
Now waiting for ID discussions
- **Convergence:** New work presented today



- **SCHC o Foo:** Over PPP, over IP, (ask for SCHC Ethertype?), MAVLink
- **FEC fragments:** Natural evolution of Bob's work (within current charter?)
- **SCHC Header:** How to convey SCHC Session Info over IP?
- **OAM:** How can OAM help?
- **Session Setup:** Rule discovery, Installation and Instantiation
- **YANG :** Optimizations for CoreConf
- **Secure Channel :** Securing SCHC Negotiation