

LPWAN WG

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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.

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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)



I E T F

Reminder:

Minutes are taken *
This meeting might be recorded **
Presence is logged ***

* Please contribute to the minutes at: <https://codimd.ietf.org/notes-ietf-interim-2021-lpwan-01-lpwan#>

** Recordings and Minutes are public and may be subject to discovery in the event of litigation.

*** From the Webex login

Agenda bashing

- [16:05] Administrivia [10min]
- o Note-Well, Scribes, Agenda Bashing
 - o WG Status
 - o IETF 110: Do we meet?

*

- [16:15] SCHC over LoRaWAN [5min]
- [16:20] CoAP over SCHC
- [25min] [16:45] Open Bar / AOB
- [QS]

WG Status

Milestones

Date	Milestone
Jul 2021	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 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

Documents advancement

Document	Date	Status	IPR	AD / Shepherd
Active Internet-Drafts (5 hits)				
draft-ietf-lpwan-coap-static-context-hc-16 LPWAN Static Context Header Compression (SCHC) for CoAP	2020-10-20 31 pages	IESG Evaluation::AD Followup for 173 days Submitted to IESG for Publication: Proposed Standard Reviews: genart, iotdir, opsdire, secdire, tsvart		Éric Vyncke Pascal Thubert
draft-ietf-lpwan-schc-over-lorawan-13 Static Context Header Compression (SCHC) over LoRaWAN	2020-10-30 28 pages	Approved-announcement to be sent::Revised I-D Needed for 61 days Submitted to IESG for Publication: Proposed Standard Reviews: genart, iotdir, opsdire, secdire, tsvart	1	Éric Vyncke Dominique Barthel
draft-ietf-lpwan-schc-over-nbiot-03 SCHC over NB-IoT	2020-07-13 23 pages Expires soon	I-D Exists WG Document		Éric Vyncke
draft-ietf-lpwan-schc-over-sigfox-04 SCHC over Sigfox LPWAN	2020-11-02 14 pages	I-D Exists WG Document		Éric Vyncke
draft-ietf-lpwan-schc-yang-data-model-03 Data Model for Static Context Header Compression (SCHC)	2020-07-10 42 pages Expires soon	I-D Exists WG Document		Éric Vyncke
RFCs (2 hits)				
RFC 8376 (was draft-ietf-lpwan-overview) Low-Power Wide Area Network (LPWAN) Overview	2018-05 43 pages	Informational RFC		Suresh Krishnan Alexander Pelov
RFC 8724 (was draft-ietf-lpwan-ipv6-static-context-hc) SCHC: Generic Framework for Static Context Header Compression and Fragmentation	2020-04 71 pages	Proposed Standard RFC		Suresh Krishnan Pascal Thubert
Document	Date	Status	IPR	AD / Shepherd
Related Internet-Draft (1 hit)				
draft-barthel-lpwan-oam-schc-02 OAM for LPWAN using Static Context Header Compression (SCHC)	2020-11-02 14 pages	I-D Exists		

IETF 110

- Virtual CET time (Prague)
- Deadline requesting a meeting in 3 weeks:
Friday 22nd of January
- Go ?

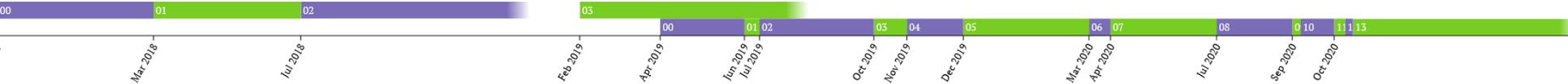
Status: draft-ietf-lpwan-schc-over-lorawan

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Document Progress



Document	Type	Active Internet-Draft (lpwan WG)
	Authors	Olivier Gimenez ✉, Ivaylo Petrov ✉
	Last updated	2020-11-05 (latest revision 2020-10-30)
	Replaces <input type="button" value="Edit"/>	draft-petrov-lpwan-ipv6-schc-over-lorawan
	Stream	IETF
	Intended RFC status <input type="button" value="Edit"/>	Proposed Standard
	Formats	<input type="button" value="plain text"/> <input type="button" value="pdf"/> <input type="button" value="htmlized (tools)"/> <input type="button" value="htmlized"/> <input type="button" value="bibtex"/>
	Reviews	TSVART Last Call Review: Ready with Nits GENART Last Call Review (of -10): Ready with Nits IOTDIR Telechat Review (of -10): Ready with Issues SECDIR Last Call Review - due: 2020-10-02 OPSDIR Last Call Review - due: 2020-10-02 <input checked="" type="button" value="Request review"/>
	Additional Resources <input type="button" value="Edit"/>	- Mailing list discussion

Stream	WG state <input type="button" value="Edit"/>	Submitted to IESG for Publication
	On Agenda <input type="button" value="Edit"/>	None
	Document shepherd <input type="button" value="Edit"/>	Dominique Barthel
	Shepherd write-up <input type="button" value="Edit"/> <input type="button" value="Show"/>	(last changed 2020-10-06)
IESG	IESG state	Approved-announcement to be sent::Revised I-D Needed
	Consensus Boilerplate <input type="button" value="Edit"/>	Yes
	Telechat date	
	Responsible AD	Éric Vyncke
	IESG note	AD has checked with authors whether the Lora Alliance has reviewed this document: yes, review done.
	Send notices to <input type="button" value="Edit"/>	Dominique Barthel <dominique.barthel@orange.com>
IANA	IANA review state	IANA OK - No Actions Needed

draft-ietf-lpwan-coap-static-context- hc-16

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²¹
HAPPY NEW YEAR
BONNE ANNEE

To All of You and your Family!

Next Steps

- V17 be published after this meeting
 - Benjamin Kaduk messages
 - DISCUSS mail
 - SECDIR v-15 comments

Last Inputs from Benjamin Kaduk

- Section 2 SCHC Applicability to CoAP (v-16)

- BK comment: The new descriptions do help quite a bit; thank you!
I think that perhaps the intent was to remove the paragraph before Figure 1, though, since it seems to be describing something quite different from both the figure and the (new) paragraph after the figure.

“The SCHC Compression Rules can be applied to CoAP headers. SCHC Compression of the CoAP header MAY be done in conjunction with the lower layers (IPv6/UDP) or independently. The SCHC adaptation layers, described in Section 5 of [rfc8724], may be used, as shown in Figure 1, Figure 2 and Figure 3”

- New for v-17:

~~“The SCHC Compression Rules can be applied to CoAP headers. SCHC Compression of the CoAP header MAY be done in conjunction with the lower layers (IPv6/UDP) or independently. The SCHC adaptation layers, described in Section 5 of [rfc8724], may be used, as shown in Figure 1, Figure 2 and Figure 3”~~
“The SCHC Compression Rules can be applied to CoAP headers. SCHC Compression for CoAP header MAY be done in conjunction with the lower layers (IPv6/UDP) or independently. The SCHC adaptation layers, described in Section 5 of {{rfc8724}}, may be used as shown in {{Fig-SCHCCOAP1}}, {{Fig-SCHCCOAP2}} and {{Fig-SCHCCOAP3}}.”

SECDIR inputs v-15

- BK comment: “The secdir review of the -15 made some good points and suggestions, including pointing out in the security considerations that the typical compression attacks we worry about aren't an issue here (and why). I don't see these points fixed in v-16.”
- SECDIR: “It appears that CoAP is designed for low end devices speaking standard protocols with a lot of static content they would like to suppress to avoid wasting processing time and communications overhead. That means that these devices are likely to be generating and parsing the compressed content directly rather than generating the full content and then compressing it. One security considerations worth noting is that whenever compression is used with a protocol intended to be encrypted (which this one is), the question should be raised as to whether the compression can be leveraged by an attacker to make traffic analysis more effective. In this case, I don't believe it can, but there should probably be an explanation of why in the security considerations. (The explanation is that the values in earlier fields do not affect the compression of later fields, so an attacker cannot supply values whose length after compression will leak the values of other compressed fields).”

SECDIR inputs v-15

- SECDIR: “Synchronizing the compression parameters is explicitly out of scope for this document, but this document allows for so many different variations in the parameter settings that it's not clear whether these settings are intended to be dynamically negotiated.”
- This should belong to an Architecture document?

Thank you

AOB ?