LPWAN WG

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

* Scribe; please contribute online to the minutes at: https://etherpad.tools.ietf.org/p/lpwan
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*** From the Webex login
# Agenda bashing

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<th>Item</th>
<th>Duration</th>
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<td>10mn</td>
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<tr>
<td></td>
<td>• Review todo</td>
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<td>• Status of drafts</td>
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<td>17:55</td>
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Last meeting Action items

• Reviews from
  – Dominique Barthel
  – Edgar Ramos
  – Juan Carlos Zuniga
Tickets open: https://trac.ietf.org/trac/lpwan/

<table>
<thead>
<tr>
<th>Ticket</th>
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<tr>
<td>#2</td>
<td>Rule ID default size</td>
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<td>#3</td>
<td>Zip bomb</td>
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<tr>
<td>#4</td>
<td>DNS lookup</td>
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<td>#5</td>
<td>Decoupled Fragmentation and SCHC compression</td>
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<td>#6</td>
<td>Full used window All-0 or All-1</td>
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<td>#7</td>
<td>Hop Limit default values</td>
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<td>#8</td>
<td>Different Rule ID’s with same DTAG</td>
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<td>#9</td>
<td>Reordering between RGW and NGW</td>
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<tr>
<td>#11</td>
<td>ACK format</td>
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<tr>
<td>#10</td>
<td>Interleave different packets</td>
</tr>
<tr>
<td>#12</td>
<td>Padding place</td>
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</tbody>
</table>
Do we request publication after changes?
THANKS

Questions?
draft-ietf-lpwan-coap-static-context-hc-02

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Going Forward…

- Update the draft-coap to be complied with SCHC updates
- Add more examples with options
- Are there other options needed for the LPWAN networks?
AOB ?
APPENDIX : Points from last time
Reviews Inputs (1)

• First Thanks to all of you that have read it and give updates and questions: Stephen Farrell, Pascal Thubert, Soichi Sakane, Rahul Jadhav

• Zip Bomb => In the Security part 8.1 cover with “never re-construct a packet bigger than some configured size (with 1500 bytes as a good generic default)” => ok
• Benefit to have DNS oriented => Out of Scope?
• Simplify Abstract => ok
• To be self-enough do we need to add a rule ID default size?
• Decoupled Fragmentation and SCHC compression => Non
• To leave it clear that Fragmentation and Compression are not decoupled because
  • Different location implies different SCHC instances in the architecture, do we want to define this?
  • Architecture Modification is an implementation issue
• For the Dev only the Rule ID is needed => YES
• DNS lookup => Out of Scope?
• We are obligated to have a full used window All-0 or All-1 => some FCN may be not used
• Hop Limit value is constant => We do not know, it depends on the Rule, there are not default values
• Different Rule ID’s with same DTAG => yes, it is possible
• Delete the constraint of: non reordering? => Full agree
Reviews Inputs (2)

- Interleave=> You can multiplex the RuleID
- Fragment Format: Figure 4 and figure 6 representation together
Reviews Inputs (3)

- Padding on ACK=> Yes because bitmap is not always multiple of 8 and Rule ID neither
- Padding between SCHC header and Payload=> Non
- Different Rule ID for each fragments=> Non, The same Rule ID is used for all the fragments, different RuleID for different packets or behaviors
- Rule ID is used to determine the packet the fragment belong to?= Rule Id and DTAG
- CDA variable values: 15 to 255 first 4 bits sent to 1 and size using 8 bits
  - First 4 bits means LSB? => Yes
  - The size in 8 bits includes the first 4 bits? => Non
- SCHC context update=> Is not defined, a new work item?
  - SCHC context synchronization is not defined, how to manage when the RuleID does not exist? =>
  You send without compression
  - One way I could think of to handle this is to change the rule-id when the SCHC context is changed. I
don’t know if this needs proper handling or some text in the draft. => YES
- Dissector WIRESHARK ?= I do not know
Reviews Inputs (4)

- Multiple rules in the same flow => Yes
- I do not think that the spec mandates that only a single rule be made use of for all the packets in the given flow => Yes, it is right we work by packet and not by flow
- Add and appendix with SCHC compressed byte payload examples => Yes, good idea
- Dev ‘may’ implement SCHC => Is not MUST because we have legacy devices
- Implementers may have a handle to choose the best Rule to use for a packet, when multiple rules matches the packet. => YES
- Can the actual byte payload be specifies along with the rule based examples in the appendix? => Yes, we can