LWIG WG

Created 2011
Charter: ~ informational Documents about implementing constrained node networks
Heyday:
• 2014 RFC 7228 (terminology)
• 2016–2018: various RFCs on energy efficiency etc.
• 2021 RFC 9006 (Using TCP in IoT)
LWIG status

- AUTH48: Minimal ESP (goes with RFC 7815 Minimal IKE)
- In IESG: draft-ietf-lwig-curve-representations
- ~2 active
  - RFC 7228 bis
  - draft-ietf-lwig-security-protocol-comparison
- ~5 expired: great docs at the time, but never completed
RFC 7228 Terminology:
• constrained node network
• "Class 1", "Class 2" devices

draft-ietf-lwig-7228bis expands
• set of classes offered
• range of some classes
Document experience with message sizes for various configurations of security protocols can aid in selecting protocols for specific environment

<table>
<thead>
<tr>
<th>Protocol Configuration</th>
<th>Message Size 1</th>
<th>Message Size 2</th>
<th>Message Size 3</th>
<th>Message Size 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTLS 1.3 RPK + ECDHE</td>
<td>150</td>
<td>373</td>
<td>213</td>
<td>736</td>
</tr>
<tr>
<td>DTLS 1.3 Cached X.509/RPK + ECDHE</td>
<td>182</td>
<td>347</td>
<td>213</td>
<td>742</td>
</tr>
<tr>
<td>DTLS 1.3 PSK + ECDHE</td>
<td>184</td>
<td>190</td>
<td>57</td>
<td>431</td>
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<tr>
<td>DTLS 1.3 PSK</td>
<td>134</td>
<td>150</td>
<td>57</td>
<td>341</td>
</tr>
<tr>
<td>EDH09 RPK + ECDHE</td>
<td>35</td>
<td>116</td>
<td>26</td>
<td>408</td>
</tr>
</tbody>
</table>

(Last draft expired, but now has renewed energy)
Passing the Baton?

LWIG as a WG is running out of steam

Can IOTOPS take two foster children?
+ Most of the work on each is done; need completion
+ IOTOPS chartered for informational documents about IoT
  – These two are maybe a bit wider than just ops

➔ get AD concurrence
➔ do the work, ship it