Overview of the Event

Event organized by:
• ETSI (European Telecommunications Standards Institute)
• LIST (Luxembourg Institute of Science and Technology)

Supporting Companies/Projects:
• OpenMote (hardware, www.openmote.com)
• OpenWSN (firmware www.openwsn.org)

Event sponsored and funded by:
• European Commission
• through the H2020 F-Interop project

16 participating companies

Independent implementations
• 5x 6TiSCH
• 6x OSCOAP
Participating People
Participating Things 😊
Summary of Event Planning

1 preparation call
• ETSI/LIST/Experts group led and organized
  • Collaborating Web conf (GotoMeeting) on 3.7.2017
  • Included Vendor Participants

Test Plan Development
• 6TiSCH -> Led by Maria Rita Palattella, Tengfei Chang, Malisa Vucinic
• F-Interop Online Testing Tools -> Remy Leone
• OSCoAP -> Led by Francesca Palombini
6TiSCH Tests description (publicly available)

Testing: Synch, Minimal, 6top, L2 security, Secure joining

1  TD_6TiSCH_SYN_01  9  TD_6TiSCH_SECJOIN_01
2  TD_6TiSCH_MINIMAL_01 10  TD_6TiSCH_SECJOIN_02
3  TD_6TiSCH_MINIMAL_02 11  TD_6TiSCH_SECJOIN_03
4  TD_6TiSCH_MINIMAL_03 12  TD_6TiSCH_SECJOIN_04
5  TD_6TiSCH_MINIMAL_04 13  TD_6TiSCH_6P_01
6  TD_6TiSCH_MINIMAL_05 14  TD_6TiSCH_6P_02
7  TD_6TiSCH_MINIMAL_06 15  TD_6TiSCH_6P_03
8  TD_6TiSCH_L2SEC_01 16  TD_6TiSCH_6P_04
# Agenda

## F-Interop 6TiSCH Agenda (14-15 July 2017)

<table>
<thead>
<tr>
<th>Time</th>
<th>Friday 14</th>
<th>Saturday 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00</td>
<td></td>
<td>TEST SESSIONS</td>
</tr>
<tr>
<td>11:00</td>
<td>SET-UP / REGISTRATION</td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td>LUNCH BREAK</td>
<td>LUNCH BREAK</td>
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<tr>
<td>14:00</td>
<td></td>
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</tr>
<tr>
<td>14:00</td>
<td>TEST SESSIONS</td>
<td>TEST SESSIONS</td>
</tr>
<tr>
<td>19:00</td>
<td>GOING TO THE RESTAURANT</td>
<td>WRAP UP / TEAR-DOWN</td>
</tr>
<tr>
<td>19:30</td>
<td>DINNER</td>
<td></td>
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</table>
The results of each interoperability test session have been recorded in a dedicated web application software: the ETSI Test Report Tool (TRT)

- After each test execution the interoperability result is agreed among all participants and then recorded
- After each test session the report is submitted to ETSI
<table>
<thead>
<tr>
<th>Total</th>
<th>Passed</th>
<th>Failed</th>
<th>Not Applicable</th>
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<tbody>
<tr>
<td>156</td>
<td>85</td>
<td>14</td>
<td>57</td>
</tr>
<tr>
<td></td>
<td>85,9 %</td>
<td>14,1 %</td>
<td>36,5%</td>
</tr>
</tbody>
</table>
F-Interop Online testing tool

Tests for:
- 6TiSCH
- CoAP
- 6LoWPAN
- LWM2M
- OSCOAP
- 6TiSCH-join
- EDHOC
- LoRaWAN
- your tests here!

go.f-interop.eu

Implements
- 6TiSCH
- CoAP
- 6LoWPAN
Feedback for the WG

- It works!
- RFC8180: works on all implementations 😊
- Minor suggestions for draft-ietf-6tisch-6top-protocol:
  - In ADD command, if no cell can be reserved:
    - return error code NORES with empty CellList
    - rather than error code SUCCESS with empty CellList
  - remove the text that recommends sending a CLEAR on a generation mismatch
    - rather, discuss "roll-back" policy
Conclusion

- Great success! Enabled to verify interoperability of RFC8180, and maturity of other drafts
- Progress through implementation and real testing.

Next plugtests

- Fully remote F-Interop based plugtests in the fall
- Date TBA
THANKS!

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