OmniRAN EC SG
July 2013 Liaison Report

Chair:
Max Riegel, NSN
Access Network Abstraction by OmniRAN

OmniRAN provides a generic model of an access network based on IEEE 802 technologies

Scope of IEEE 802
OmniRAN allows for mapping of complex IEEE 802 network infrastructures

- Reference Points represent a bundle of functions between peer entities
  - Similar to real network interfaces
- Functions are extensible but based on IEEE 802 specific attributes
OmniRAN explains IEEE 802 Standards for Smart Grid Communications
OmniRAN EC SG Results: Topics for Standardization in IEEE 802

- Discovered gaps in IEEE 802 technologies, if any, should be addressed by the related IEEE 802 WGs

- Establishing a common approach of specifying ‘external’ control into IEEE 802 technologies would require:
  - specifications of the control attributes for the individual IEEE 802 technologies by their working groups
    - (normative, in annex of related specifications to ensure consistency)
  - a specification describing the ‘OmniRAN’ Network Reference Model and listing the DL and PHY control functions demanded for access networks and SDN
    - (informative)
  - a specification on the usage of IP protocols for the transport of IEEE 802 attributes and the definition of IEEE 802 attributes for such IP protocols
    - (informative for IEEE 802, probably in cooperation with IETF)

- The discussions in the July 2013 session will mainly address the progressing of the standardization topics mentioned above.
July 2013 OmniRAN F2F Schedule

<table>
<thead>
<tr>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td>EC Opening Session</td>
<td></td>
<td>Joint w/ 802.11 ARC</td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td></td>
<td>w/ 802.22</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>IEEE 802 Opening Plenary</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:30</td>
<td>w/ 802.1</td>
<td>OmniRAN Opening Meeting</td>
<td>Joint w/ 802.21</td>
<td>OmniRAN Closing Meeting</td>
</tr>
<tr>
<td>15:30</td>
<td>w/ 802.19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:00</td>
<td>w/ 802.24</td>
<td></td>
<td></td>
<td>EC Closing Session</td>
</tr>
<tr>
<td>18:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
OmniRAN ECSG
Resources

• Website: http://www.ieee802.org/OmniRANsg/
• Document Archive on mentor: https://mentor.ieee.org/omniran/documents
• Email reflector: ecsg-802-omniran@listserv.ieee.org
• Email archive: http://grouper.ieee.org/groups/802/OmniRANsg/email/
• Attendance:
  Paper list (normative) + IMAT
  – IMAT mandatory for participants seeking attendance credits
  – Reciprocal rights for most WGs