**IEEE P802.24**

Smart Grid TAG

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<tr>
<th>Project</th>
<th>IEEE P802.24 Smart Grid Technical Advisory Group</th>
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<tr>
<td>Title</td>
<td>Minutes-TAG-Jan-2016</td>
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<tr>
<td>Date Submitted</td>
<td>20 Jan 2016</td>
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<td>Source</td>
<td>[Benjamin Rolfe]</td>
</tr>
<tr>
<td></td>
<td>[BCA]</td>
</tr>
<tr>
<td></td>
<td>[PO Box 798 Los Gatos CA 95031]</td>
</tr>
<tr>
<td>Voice:</td>
<td>[+1-408-395-7207]</td>
</tr>
<tr>
<td>Fax:</td>
<td>[Deprecated]</td>
</tr>
<tr>
<td>E-mail:</td>
<td>ben.rolfe @ ieee.org</td>
</tr>
<tr>
<td>Re:</td>
<td>TAG Meeting, January 2016, Atlanta, GA, USA.</td>
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<tr>
<td>Abstract</td>
<td>Meeting minutes for 802.24 TAG and TGs</td>
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<tr>
<td>Purpose</td>
<td>Document meeting activity and action items.</td>
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<td>Notice</td>
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Minutes WG 24 session January 2016
Atlanta, GA, USA.

### 802.24 TAG

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Tim Godfrey (EPRI)</td>
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<tr>
<td>Vice Chair</td>
<td>Benjamin Rolfe (Blind Creek Associates)</td>
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<tr>
<td>Recording Secretary</td>
<td>Benjamin Rolfe (Blind Creek Associates)</td>
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<tr>
<td>TG1 (SG) Chair</td>
<td>Tim Godfrey</td>
</tr>
<tr>
<td>TG1 (SG) Vice Chair</td>
<td>Benjamin Rolfe (Blind Creek Associates)</td>
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<td>TG1 (SG) Recording Secretary</td>
<td>Benjamin Rolfe (Blind Creek Associates)</td>
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<tr>
<td>TG2 (IoT) Chair</td>
<td>Chris DiMinico (MC Communications)</td>
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<tr>
<td>TG2 (IoT) Vice Chair</td>
<td>Mike Bennett (3MG Consulting)</td>
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<tr>
<td>TG2 (IoT) Recording Secretary</td>
<td>Andrew Jimenez (Anixter Inc.)</td>
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### PM2 Monday 18 January 2016

Meeting called to order at 1602 local time by TAG Chair Tim Godfrey. Chair, vice chair and recording secretary present.

Tim presents doc # 24-15-0043-01 meeting agenda. Following minor changes, agenda is approved by unanimous consent. Approved agenda is posted as 24-15-0043-02.

Tim the opening report doc # 24-16-0002-01. Tim presents IEEE Policy slides. No questions, discussion or disclosures heard.

Approval of September meeting minutes: Motion to approve the minutes, doc # 24-15-0034-0.
  - Moved Don Sturek (Silver Spring Networks)
  - Second Ludwig Winkel (Siemens AG)
Following no discussion nor objections motion carriers by unanimous consent.

Liaison activity report: Presented by Wael Diab (Huawei), Document # 24-16-0006-00.

P2413 Liaison report (verbal), Ludwig (see also doc # 24-15-0037-00):
   The group has been working on the structure and organization of the standard to be developed to better fit the technical content that has been contributed. Next meeting (1st week of Feb, in Washington DC USA) it is expected that the group will finalize the organization and structure. Schedule for balloting not yet determined, expected to be defined in February.

Ludwig leads discussion on IoT White Paper – overview and first draft (doc # 24-15-0036-00). Discussion on development of white paper
Action:
   Ludwig suggests liaison to IEC Strategic Group 8 (Industry 4.0 / smart manufacturing), Group 9 (communications systems) and IPC TC65 (dealing with industrial automation, high availability)

802.3 Attendees:
   Wael Diab (Huawei)
   Mick McCarthy (Analog Devices)

Recessed at 17:55 Local Time.

**PM2 Tuesday 19 January 2016**

802.24.1 Called to order at 16:01 local time by TAG chair.
   Tim presents TG tasks for the week, document 24-16-0002-01.
   Tim leads discussion development of liaisons, industry contacts, outreach and related topics.
   Results captured in [24-16-0005-00-0000 Closing Report, Slide 5].

Action: Ben to add a spectrum map identifying bands below 1-GHz where 802 standards define operation to 15-0029 and post as r4 for group review.

802.3 Attendees:
   Wael Diab (Huawei)
   Mick McCarthy (Analog Devices)
   Chris DiMinico (MC Communications)
TAG is recessed at 17:01 local time.

PM3 Tuesday 19 January 2016 (Tutorial)

Joint 802.24/802.16 meeting: narrow band tutorial.

Called Tutorial to order at 19:38 jointly by 802.16 chair Roger Marks and 802.24 chair Tim Godfrey.

Roger and Tim present document # 16-16-0001-00:

Roger presents the agenda, Introductions and 802.16 overview, history and context.

Tim presents overview of 802.16 from the utility perspective and provides overview and context for the narrow band proposed project.

Brett Kilbourne (UTC) presents an overview of Utilities Telecom Council (UTC) and telecommunications in utility applications and the need for narrow band solutions. Follows with Q&A.

Kathy Shaft (Great River Energy) presents utility perspective on the need for narrow band amendment to 802.16. Follows with Q&A.

Sal Faruqui (Portland General Electric) presents their experience and needs for field voice and field data communications system.

Robert Finch (Select Spectrum) presents slides on Private Licensed Spectrum for Utilities upper 700MHz A Block Spectrum.

Guy Simpson (Full Spectrum) presents Approaches for Narrower Channel Implementations.

Document # 16-16-0001-01 contains all the presentations given.

Adjourned tutorial at 21:13.

PM2 Wednesday 20 January 2016

Called to order at 16:07 local time.

Continued work from document #24-16-0002-02. Tim leads work on companion presentation for Smart Grid.

Actions:
- 802.1x summary slide: Mic Seaman
802.15 Security overview slide: Kivinen
802.16 Security overview: Godfrey
802.22 Security overview: Apurva
Non-mains and low power applications: Calvert, Salazar
Tim to follow-up on actions (Feb 20)

Input from Mike Lynch, 802.18 ITU-R report. Tim presents the document to the group.

Task group work completed.
TAG work

Student paper competition:

Formation of a Judging committee:
- IEEE (Tara Galius) will receive papers submission emails, anonymize, send to judging lead (James Gilb).
- James will distribute to judges
- Judging committee volunteers:
  - James Gilb, Ben Rolfe, Jeritt Kent, Ludwig Winkle, Ruben Salazar
  - Tim and James will communicate with judges via email, distribute papers

Judging:
1. Verify compliance with submission requirements
2. Verify compliance with the defined scope and relevance to IEEE 802
3. Clarity, conciseness, unique, defensible,
4. Evaluation relative to judging criteria per document 24-16-0004

AoB: None heard

Action Items:
- Follow up on Sub 1 GHz Whitepaper (Tim)
- Follow up for SG Companion Presentation (Tim)

Having reached the end of the agenda, chair entertains a motion to adjourn.
Move by Matt Gilmore (Itron)
Second James Gilb (Self)
Hearing no objections motion carries by unanimous consent.
Adjourned at 17:15 local time.

802.3 Attendees:
Mick McCarthy (Analog Devices)