IEEE DySPAN-SC and IEEE 1900 Standards Working Groups: Update for IEEE TCCN Meeting at IEEE Globecom 2017

Oliver Holland, King’s College London
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Singapore
Introduction to DySPAN-SC

Sponsors IEEE 1900 working groups, covering the area of “Dynamic Spectrum Access Networks” and related technologies

Committee leadership comprises
- Chair: Hiroshi Harada, University of Kyoto and NICT
- Vice-Chair: Oliver Holland, King’s College London
- IEEE 1900.1 Chair: Francesco Benedetto, University of Roma “Tre”
- IEEE 1900.2 Chair: Stephen Berger, TEM Consulting
- IEEE 1900.4 Chair: Masayuki Ariyoshi, NEC
- IEEE 1900.5 Chair: Mat Sherman, BAE Systems
- IEEE 1900.6 Chair: Oliver Holland, King’s College London
- IEEE 1900.7 Chair (Acting): Apurva Mody, BAE Systems

Amendments or further standards under scope of working group
- IEEE 1900.1
- IEEE 1900.1a
- IEEE 1900.2 (revision)
- IEEE 1900.4a
- IEEE 1900.4.1
- IEEE 1900.5.1
- IEEE 1900.5.2
- IEEE 1900.6a
- IEEE 1900.6b

Legend:
- Standard completed
- Ongoing work
- Terminated work
Status

IEEE 1900.1
- Continuing work on a revision of the IEEE 1900.1-2008 standard, considering all aspects: Updates (incl. new/deleted) terms/definitions, updates to supporting materials (e.g., explanatory material on the relationship between concepts), updates to structuring, etc
- Completed consideration of revised/new terms/definitions; currently considering annexes
- Extended PAR and tentatively aiming for a first complete draft as early as possible in 2018

IEEE 1900.4
- Currently in hibernation pending new work items or revision of its current published IEEE 1900.4, 1900.4a, and 1900.4.1 standards

IEEE 1900.5
- Work continues on 1900.5.1 standard, “Policy Language for Dynamic Spectrum Access Systems”, started in December 2011. PAR expires December 2019 (extended). First Internal Letter Ballot complete; comments/draft being revised
- 1900.5.2 “Standard Method for Modeling Spectrum Consumption”, started in March 2013. Completed (including Sponsor Ballot) and submitted to IEEE-SA Revcom for publication consideration
Progress Since Last Report

IEEE 1900.6
- Working on 1900.6b amendment standard on sensing support for spectrum databases (e.g., geolocation databases in the TV white space case, SAS in CBRS case, or more general databases, etc.)
- Completed first draft and first internal letter ballot; comments being addressed and revision draft being produced

IEEE 1900.7
- 1900.7-2015 published in February 2016
- Considering and has internally approved (also approved at DySPAN-SC level) a new project (IEEE P1900.7a) as an amendment standard on advanced QoS considerations including MAC/PHY developments supporting those
- Has appointed new Acting Chair (Dr. Apurva Mody, BAE Systems)
- However, uncertain if there is impetus to get new project underway, and currently looks likely to be going in to hibernation
Upcoming Meetings and Links to Contribute

Upcoming meetings currently to be defined

For further information, please visit: www.dyspan-sc.org, or contact:

- Hiroshi Harada, DySPAN-SC Chair/Secretary, hiroshi.harada@i.kyoto-u.ac.jp
- Oliver Holland, DySPAN-SC Vice-Chair and ComSoc Standards Liaison, oliver.holland@kcl.ac.uk
- ...Or the associated working group Chair(s): 1900.1 – Francesco Benedetto, francesco.benedetto@uniroma3.it; 1900.4 – Masayuki Ariyoshi, m-ari@ieee.org; 1900.5 – Mat Sherman, matthew.sherman@baesystems.com; 1900.6 – Oliver Holland, oliver.holland@kcl.ac.uk; 1900.7 – Apurva Mody, apurva.mody@baesystems.com
Thank you!