

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

Oliver Holland, King's College London

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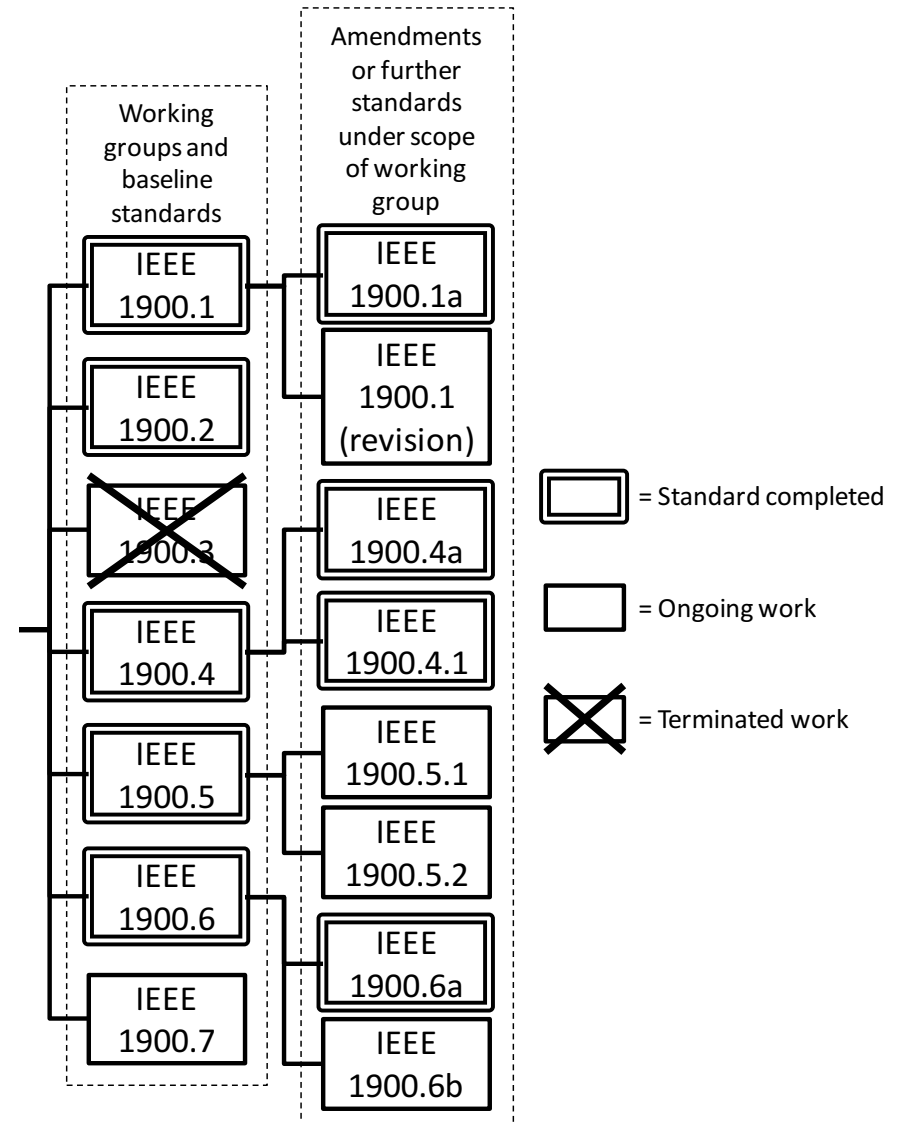
Paris, France

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



Progress Since Last Report

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 terms/definitions; currently considering new terms/definitions and other content
- Tentatively aiming for a first complete draft of the revised terms/definitions in mid 2017

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 expiration December 2017 (extended). Draft completed; Internal Letter Ballot occurring about now
- 1900.5.2 “Standard Method for Modeling Spectrum Consumption”, started in March 2013. Completed and 2nd Recirculation Sponsor Ballot complete. Imminent submission to IEEE-SA for final publication approval

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.). Achieved good understanding of use cases and scenarios, entities and presence of interfaces between the entities, the characteristics of any new entities that might be involved (e.g., the spectrum database), and the Reference Model (high level)
- Extensive work on Service Access Points (SAP), information model, procedures and other items continuing for the purpose of IEEE 1900.6b
- Strong collaboration developing with IEEE 802.22.3 (“Spectrum Characterization and Occupancy Sensing”) given very significant synergies with what they are doing (potential for them to use IEEE 1900.6 interfaces)

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)

Upcoming Meetings and Links to Contribute

Participation is welcome to upcoming meetings!

Dates	Format	Location	Host
17-20 July 2017	DySPAN-SC and IEEE 1900 WGs	Berlin, Germany	Collocation after IEEE 802 series of previous week
Late Nov./early Dec. 2017	DySPAN-SC and IEEE 1900 WGs	Asia-pacific region	Under consideration

Also numerous phone conferences of IEEE 1900 WGs

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!