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Kuala Lumpur, Malaysia
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): Oliver Holland, King’s College London

Diagram:
- Working groups and baseline standards
  - IEEE 1900.1
  - IEEE 1900.2
  - IEEE 1900.3 (revision)
  - IEEE 1900.4
  - IEEE 1900.5
  - IEEE 1900.6
  - IEEE 1900.7
- Amendments or further standards under scope of working group
  - IEEE 1900.1a
  - IEEE 1900.1 (revision)
  - IEEE 1900.4a
  - 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
Introduction to DySPAN-SC

Working Groups

- IEEE 1900.2: “Recommended Practice for the Analysis of In-Band and Adjacent Band Interference and Coexistence Between Radio Systems” (in hibernation)
- IEEE 1900.3: “Recommended Practice for Conformance Evaluation of Software Defined Radio (SDR) Software Modules” (disbanded)
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
- Tentatively aiming for a first complete draft of the revised terms/definitions in mid-2016

IEEE 1900.4

- Currently in hibernation pending new work items or revision of its currently publications IEEE 1900.4, 1900.4a (including integration into the former), 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); aimed to complete though in mid-2017
- 1900.5.2 “Standard Method for Modeling Spectrum Consumption”, started in March 2013. Completed and submitted for Sponsor Ballot. Mandatory Editorial Correction completed in early December; currently addressing comments from Sponsor Ballot process
Progress Since Last Report

IEEE 1900.6
- Working on 1900.6b amendment standard on sensing support for spectrum databases (e.g., geolocation databases, as in the TV white space case). 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) continuing
- Deep analysis and possible collaboration with WInnF SSC (US 3.5 GHz SAS/ESC), and consideration of TV white spaces, ASA/LSA, SONs, general spectrum monitoring, etc., as some of the use cases of this amendment standard
- Minor corrigendum to 1900.6-2011 now published

IEEE 1900.7
- 1900.7-2015 published in February 2016
- Considering and has internally approved a new project (IEEE P1900.7a) as an amendment standard on advanced QoS considerations
- Currently working to elect new Chair; new project will be submitted once the new Chair is elected
# Upcoming Meetings and Links to Contribute

Participation is welcome to upcoming meetings!

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<tr>
<td>July/August 2016</td>
<td>DySPAN-SC and IEEE 1900 WGs</td>
<td>Poznan, Poland</td>
<td>Poznan University of Technology</td>
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<td>November/December 2016</td>
<td>DySPAN-SC and IEEE 1900 WGs</td>
<td>Kyoto, Japan</td>
<td>Kyoto University</td>
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<td>March 2017</td>
<td>DySPAN-SC and IEEE 1900 WGs</td>
<td>Under consideration</td>
<td>Under consideration</td>
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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 TCCN 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, ariyoshi@bx.jp.nec.com; 1900.5 – Mat Sherman, matthew.sherman@baesystems.com; 1900.6 – Oliver Holland, oliver.holland@kcl.ac.uk; 1900.7 – Stanislav Filin, sfilin@ieee.org
Thank you!