

The World's Regulatory View a WRC 12 Preview

Wireless Innovation Forum

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Resolution 956

- Regulatory measures and their relevance to enable the introduction of software-defined radio and cognitive radio systems
- WRC-07 invited the ITU-R to “study whether there is a need for regulatory measure related to the application of CRS technologies” and of SDR.
- WRC-07 resolved that WRC-12 “consider the results of these studies and take the appropriate actions.”
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Agenda Item 1.19-SDR/CRS

- Resolution 956 further resolves that WRC-12 will
 - Consider the results of these studies
 - Take appropriate actions
- Question is whether results will be a
 - No Change without a Resolution (Method B1 – Option A)
 - ITU-R-Resolution (Method B1 – Option B)
 - WRC Resolution (Method B2)
 - New WRC Agenda Item for WRC-17

Definitions from Report ITU-R SM.2152

- **Software Defined Radio (SDR)** *is a radio transmitter and/or receiver employing a technology that allows the RF operating parameters including, but not limited to, frequency range, modulation type, or output power to be set or altered by software, excluding changes to operating parameters which occur during the normal pre-installed and predetermined operation of a radio according to a system specification or standard.*
- **Cognitive Radio System (CRS)** *is a radio system employing technology that allows the system to obtain knowledge of its operational and geographical environment, established policies and its internal state; to dynamically and autonomously adjust its operational parameters and protocols according to its obtained knowledge in order to achieve predefined objectives; and to learn from the results obtained.*

Agenda Item 1.19-SDR/CRS

- Working Party 1B of Study Group 1 conducts work under Resolution 956.
- Current PDNR (Preliminary Draft New ITU-R Resolution) invites ITU-R to study
 - “the introduction and use”;
 - “operational and technical characteristics, requirements, performance and possible benefits”;
 - “technical conditions” “to ensure coexistence and sharing”; and
 - “develop relevant ITU-R Recommendations and/or Reports” as appropriate.

Upcoming Meetings

- Study Group 1: May 25 – June 1, 2011 discussing changes to PDNR
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- Conference Preparatory Meeting: February 14 - 25, 2011
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- Current CPM text available on ITUwebsite as **Document CPM11-2/1-E**
 - Chapter 6, p. 399 addresses Agenda Item 1.19 on CRS/SDR
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Final Stages

- Regional preparation for WRCs done for U.S. through Region 2's CITEL
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- CITEL adopted an Inter-American Position (IAP) of No Change to the Radio Regulations for AI 1.19
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- Radio Assembly Meeting (RA-12) would approve the draft CPM Report, **January 16 - 20, 2012**
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- WRC-12: **January 23 - February 17, 2012**