



ISO/IEC JTC 1 N9788

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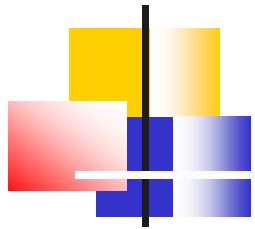
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ISO/IEC JTC 1/SC 6

Dae Young KIM, SC 6 Chair
Jooran LEE, SC 6 Secretariat
2009 JTC 1 Plenary



What's New

- Work items

- ISO/IEC 29181 **Future Network**: Problem Statement and Requirements
- ISO/IEC 29182 Reference Architecture Model for **Sensor Network** Applications and Services
- ISO/IEC 29180 / ITU-T X.usnsec-1
Security Framework for **Sensor Network**
- ISO/IEC 29168 / ITU-T X.oid-res
OID Resolution System



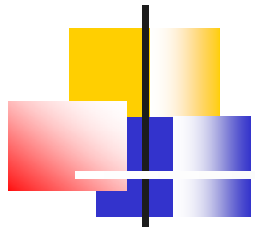
What's New

■ Participants

- Same membership since 2008 JTC 1 Plenary
- Participating countries: 18
- Observing countries: 27

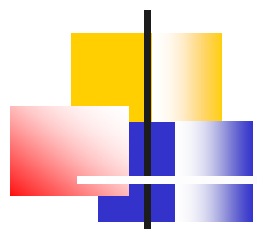
■ Liaisons

- No change since 2008 JTC 1 Plenary
- Current liaisons list to be found in SC 6 Business Plan (6N14005)
- Close cooperation with ITU-T FG-FN



What's New on 14443/18092

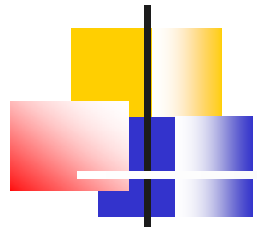
- LS (17N3642) from SC 17 to SC 6
 - 14443-sourced parts of 18092(NFC) be moved to SC 17
- LS (6N14029) back from SC 6 to SC 17
 - SC6 will improve NFC-related standards according to the ToR and the findings of SC 6/WG 1 Study Group.
 - In doing that, SC 6 will use references (to 14443) instead of copying texts wherever possible.



User Engagement

■ Participation

- Active user engagement from China, France, Japan, Korea, Spain, UK, and USA
- Active liaison involvement from IEEE 802, Ecma International, and ITU-T SGs 11, 13, 16, and 17
- Collaboration with internal liaisons including SCs 17, 25, 27, 31, and ISO TC 215
- Direct/indirect industry involvement by Casuh, Daewoo, NXP, OSS, SONY, and thru NFC Forum
- Impressive 60GHz demo by Samsung, ETRI, Georgia Tech, and Ecma International in Montreux

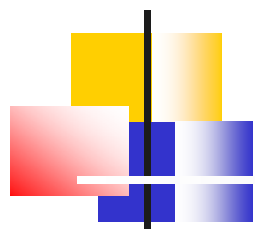


User Engagement

- Challenges

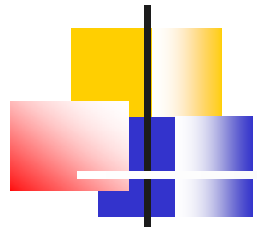
- Prevalence of industry consortia
- Promote market values of ISO/IEC standards
- Elevate industry involvement

- Others



Known Implementations

- DIR (ISO 9594 / X.500)
 - Directory
 - A lot of industry implementations
 - <http://www.x500standard.com>
- ASN.1 related
 - Abstract Syntax Notation 1
 - Main spec widely implemented and used
 - Binary XML
 - XSD to ASN.1 mapping
 - <http://www.oss.com>



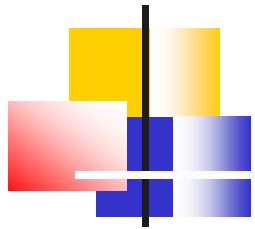
Known Implementations

- NFC (ISO/IEC 18092 series)
 - Near Field Communication
 - A lot of industry implementations
 - <http://www.nfc-forum.org>
- PLC (ISO/IEC 12139-1)
 - Power Line Communication
 - Implementation by Korean industries
 - To be deployed for remote metering



Known Implementations

- ECTP (ISO/IEC 14476)
 - Enhanced Communication Transport Protocol
 - Platform: Linux
 - User-level implementation of ECTP using Socket API
 - Experiments over APAN/KOREN networks
 - Applications tested
 - Multicast file transfer
 - Whiteboard for remote education
 - Streaming Video for Live Broadcasting



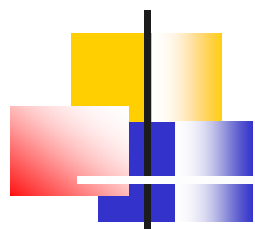
Known Implementations

- RMCP (ISO/IEC 16252 / ITU-T X.rmcp)
 - Relayed Multicast Protocol
 - Platform: Linux and Windows
 - For content delivery, IPTV, and other applications
 - ETRI
- MMC (ISO/IEC CD 24793 / ITU-T X.mmc)
 - Mobile Multicast Communications
 - In fast prototyping
 - ETRI and Universities



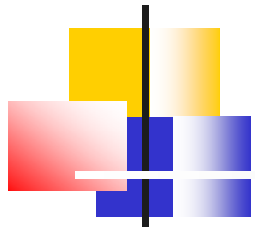
Known Implementations

- Koinonia (ISO/IEC 24771)
 - MAC/PHY Standard for Ad Hoc Wireless Network to Support QoS in an Industrial Work Environment
 - SoC chipset
 - Wireless access points
 - Wireless data transceivers for USN
 - Wireless Ethernet bridges
 - Daewoo and other companies



Known Implementations

- PicoCast (ISO/IEC 29157)
 - PHY/MAC Specifications for Short-Range Wireless Low-Rate Applications in ISM Band
 - Chips and modules; over 30K chips sale monthly
 - Bidirectional group phone
 - Multi-lingual broadcasting (or translation) system
 - Wireless conference system
 - Digital cordless phones and wireless key phones
 - Wireless karaoke system
 - Casuh and other companies
 - <http://casuh.com/en>



Outreach

■ Press release

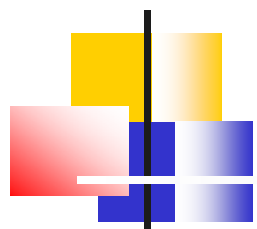
- <http://www.etnews.co.kr/news/detail.html?id=200811210037>
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- <http://news.naver.com/main/read.nhn?mode=LSD&mid=sec&sid1=001&oid=0029&aid=0000050561>
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■ Articles

- Special issue on PicoCast Infra, TELECOM Journal, Communications Society of IEEK, 2008.1.1.
- Workshops, ...

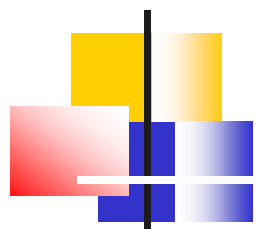
■ Citation by external sources

- ...



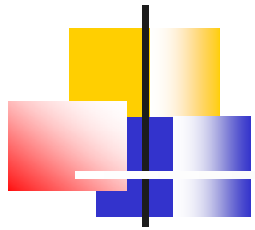
Challenges

- Keys to success
 - Far more industry involvement
 - More 'active' P-members
- Others



Issues and Needs

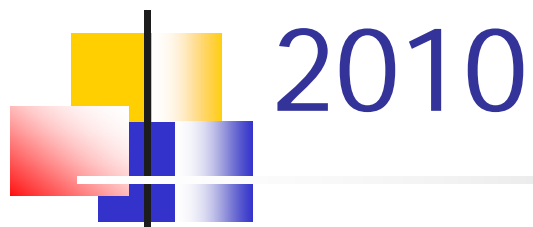
- Resource constraints
 - In need of more market-influential new work items
- Others
 - Some P-members not voting
 - Works crossing boundaries between Sub Committees
 - even beyond ToR...?
 - complementary or infringing?



2010

■ New Directions

- Future Network
- Sensor Network
- Object IDs for FN/SN
- Magnetic field area network
- Managed p2p-based communication protocol
- Communication protocols to support
 - Service-oriented Network (SOA)
 - Service Overlay Network (SON)
 - Cloud Computing, Smart Grid



2010

■ Next SC 6 Plenaries

- 18 - 22 January 2010 (Barcelona, Spain)
- 27 September - 1 October 2010 (London, UK)
- June 2011 (US) : *Tentative*



Thank you!
