

# Liaison Report from 802.21

Document Number:

Date Submitted:

2005-07-18

Source:

Ronny (Yong-Ho) Kim  
LG Electronics, Inc.

Voice: +82-31-450-1879

Fax: +82-31-450-7912

E-mail: [ronnykim@lge.com](mailto:ronnykim@lge.com)

Venue:

San Francisco, Session #38

Base Document:

Purpose:

IEEE802.21 report to IEEE802.16

Notice:

This document has been prepared to assist IEEE 802.16. It is offered as a basis for discussion and is not binding on the contributing individual(s) or organization(s). The material in this document is subject to change in form and content after further study. The contributor(s) reserve(s) the right to add, amend or withdraw material contained herein.

Release:

The contributor grants a free, irrevocable license to the IEEE to incorporate material contained in this contribution, and any modifications thereof, in the creation of an IEEE Standards publication; to copyright in the IEEE's name any IEEE Standards publication even though it may include portions of this contribution; and at the IEEE's sole discretion to permit others to reproduce in whole or in part the resulting IEEE Standards publication. The contributor also acknowledges and accepts that this contribution may be made public by IEEE 802.16.

IEEE 802.16 Patent Policy:

The contributor is familiar with the IEEE 802.16 Patent Policy and Procedures <<http://ieee802.org/16/ipr/patents/policy.html>>, including the statement "IEEE standards may include the known use of patent(s), including patent applications, provided the IEEE receives assurance from the patent holder or applicant with respect to patents essential for compliance with both mandatory and optional portions of the standard." Early disclosure to the Working Group of patent information that might be relevant to the standard is essential to reduce the possibility for delays in the development process and increase the likelihood that the draft publication will be approved for publication. Please notify the Chair <<mailto:chair@wirelessman.org>> as early as possible, in written or electronic form, if patented technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the IEEE 802.16 web site <<http://ieee802.org/16/ipr/patents/notices>>.

# 802.21 Update

- Session #8 held in Cairns, Queensland, Australia
- Two proposals were finally harmonized to a single proposal
- Single harmonized proposal was presented
- Attendance roll call for Quorum Determination
  - 30 voting members were present (57 voting members in 802.21)
- 802.21 WG accepted the first initial WG draft by voting

# 802.21 Draft Table of Contents

- Overview of Spec
  - Scope, Purpose, Assumptions
- References
- Definitions
- Abbreviations and Acronyms
- General Architecture
  - MIH Reference Architecture
  - MIH Function Services
  - MIH Reference Models (802.3, 802.11, 802.16, 3GPP, 3GPP2)
  - Service Access Points (SAPs)
- MIH Function Services
  - MIES (Event Service), MICS (Command Service), MIIS (Information Service)
- MIH SAPs and Primitives
- Media Independent Handover Protocol
- Appendix

# MIH Function Key Services

- Media Independent Event Service
  - Information from the link layer to the higher layers
  - Link Events, MIH Events
  - Local Events, Remote Events
- Media Independent Command Service
  - From higher layers to the lower layers
  - Manage/control link status for optimal performance
  - Link Commands, MIH Commands
  - Local Commands, Remote Commands
- Media Independent Information Service
  - Homogeneous/Heterogeneous Network Information
  - Information Elements for intelligent handover decisions of handover module

# MIH Protocol

- MIH Message format should be defined for MIH peer to peer communication
- MIH Protocol
  - MIH capability discovery
  - MIH remote registration
    - In order to receive MIES from the remote MIH entity
  - MIH message exchange
    - L3 or L2 transport

# Conclusion

- 802.21 Status Update
- Introduction to Media Independent Handover draft
- 802.21 draft contains 802.16 related parts
  - 802.16 reference model
  - SAPs, Primitives
- 802.16 members are encouraged to review the draft and provide valuable feedback to 802.21
- [http://www.ieee802.org/21/july05\\_meeting\\_docs/P802-21-D00-01.pdf](http://www.ieee802.org/21/july05_meeting_docs/P802-21-D00-01.pdf)