**Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)**

**Submission Title:** Status Report of HBC

**Date Submitted:** May 2010

**Source:** Jahng Sun Park, Eun Tae Won – Samsung Electronics

Jung-hwan Hwang, Hyung-il Park – ETRI

**Re:**

**Abstract:** This document provides status report for HBC.

**Purpose:** To present status report of HBC.

# Status Report of HBC

May 19, 2010

Jahng Sun Park, Eun Tae Won
[Samsung Electronics]

Jung-hwan Hwang, Hyung-il Park
[ETRI]

# Supplemental Information for HBC

- Doc # 15-10-0318-00-0006
- Radio Spectrum Regulatory Summary
  - US, Japan, Korea, EU, UK, Australia
- Additional Explanations on HBC TX Power
  - HBC TX Radiation Power Level
  - TX Power Spectrum w/ and w/o TX filters
  - EMI measurement result (w/o TX filter)

# Radio Spectrum Regulatory Summary

- US: Low-Power, Non-Licensed Transmitters
  - Section 15.209 and Section 15.205
- Japan: Extremely Low Power Radio Station (non-licensed)
  - Radio Law Article 4, Section 1 and Radio Operation Regulation Article 6, Section 1
- Korea: Extremely Low Power Radio Station (non-licensed)
  - Radio Station Law Article 97
- EU: Short Range Devices (licenses normally not required)
  - ETSI EN 300 330
- UK: Licence Exempt Short Range Devices
  - UK Interface Requirement 2030
- Australia: Short Range Devices
  - Radiocommunications (Low Interference Potential Devices) Class Licence 2000
- In process of preparing materials to update "Regulation Subcommittee Report"
  - Doc # 15-08-0034

# Status of Normative Text Draft

- The following changes and additions made to HBC draft
  - Doc # 15-10-0201-02-0006
- Payload Length Field (PHY Header)
  - MAC Payload: 0 ~ 255 bytes
- Code sets used for preamble and SFD
- Performance figure of proposed preamble
- Transmitter Specifications
  - Transmit mask
  - Transmit power spec
  - Clock frequency tolerance
  - Transmit timing requirements
- Receiver Specifications: Receiver Sensitivity