**IEEE P802.15**

**Wireless Personal Area Networks**

|  |  |  |
| --- | --- | --- |
| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | Proposal of liaison statement to ETSI ISG mWT | |
| Date Submitted | March 2016 | |
| Source | Akifumi Kasamatsu,  Norihiko Sekine, Iwao Hosako,  and Hiroyo Ogawa NICT 4-2-1, Nukuikita, Koganei, 184-8795, Tokyo, Japan | Voice: + 81 42 327 6876 Fax: +81 42 327 7938 E-mail: kanno@nict.go.jp |
| Re: |  | |
| Abstract | This contribution proposes to send a liaison statement to ETSI ISG mWT. | |
| Purpose | To inform ETSI ISG mWT Call for Proposal and request information from ETSI ISG mWT if available. | |
| Notice | This document has been prepared to assist the IEEE P802.15. 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 acknowledges and accepts that this contribution becomes the property of IEEE and may be made publicly available by P802.15. | |

**Background**

ETSI ISG mWT is working on millimeter-wave fixed wireless access system to provide fronhaul/backhaul links for broadband mobile systems [1]. The carrier frequencies of their systems are increasing and they are interested in using D-band frequencies.

IEEE 802.15 TG 3d has issued a call for proposals on 16 March 2016, which includes also the application of wireless fronthauling/backhauling links in the frequency range 252- 325 GHz.

**Proposal**

IEEE 802 is requested to send a liaison statement to ETSI ISG mWT (see Attachment A).

**Reference**

[1] ISG mWT view on the allocation of spectrum for backhaul and front-haul, ITU-R millimeter-wave workshop, July 2015.

**Attachment A**

**Draft Liaison to ETSI ISG mWT**

IEEE 802 established Task Group 802.15.3d which develops wireless switched point-to-point physical layer to IEEE Std. 802.15.3 operating at a nominal PHY data rate of 100 Gbps with fallbacks to lower data rates as needed. Operation is considered in bands from 252 GHz up to 325 GHz at ranges as short as a few centimeters and up to several 100m.

IEEE 802 noted that ETSI ISG mWT is developing specifications of fixed wireless access sytems in the high millimeter-wave frequencies for applications of fronthaul/backhaul..

IEEE 802 invites ETSI ISG mWT to exchange information regarding system specifications relevant to millimeter-wave and terahertz fronthaul/backhaul standard.

Further information on the objectives and current status of the task group IEEE 802.15.3d can be found in the following website and documents:

- IEEE 802.15 TG 3d web site: <http://www.ieee802.org/15/pub/index_TG3d.html>

- Call for Proposals: <https://mentor.ieee.org/802.15/dcn/15/15-15-0936-04-003d-tg3d-100g-call-for-proposals.docx>

- Application Requirements Document: <https://mentor.ieee.org/802.15/dcn/14/15-14-0304-16-003d-applications-requirement-document-ard.docx>

- Technical Requirements Document: <https://mentor.ieee.org/802.15/dcn/14/15-14-0309-20-003d-technical-requirements-document.docx>

- Channel Modeling DocumentS. <https://mentor.ieee.org/802.15/dcn/14/15-14-0310-18-003d-channel-modeling-document.docx>

- Evaluation Criteria Document: <https://mentor.ieee.org/802.15/dcn/15/15-15-0412-13-003d-evaluation-criteria-document.docx>

**Contact**: Thomas Kürner, IEEE 802.3d Task Group Chairman

Iwao Hosako, IEEE 802.3d Task Group Vice-chariman