**IEEE P802.15**

**Wireless Personal Area Networks**

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| 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 | |
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| 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. | |
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**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 15 March 2016, which includes also the application of wireless fronthauling/backhauling links in the frequency range 252- 325 GHz.

**Proposal**

IEEE 802.15 WG 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**

The IEEE 802.15 Working Group (WG) has established a Task Group 802.15.3d to develop a wireless switched point-to-point physical layer amendment to IEEE Std. 802.15.3. The PHY is intended to operate at a nominal 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.

The IEEE 802.15 WG has noted that ETSI ISG mWT is developing specifications for fixed wireless access sytems in the high millimeter-wave frequencies for fronthaul/backhaul applications.

The IEEE 802.15 WG invites ETSI ISG mWT to exchange information regarding system specifications relevant to millimeter-wave and terahertz fronthaul/backhaul standards.

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/15/15-15-0936-02-003d-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/14/15-14-0310-19-003d-channel-modeling-document.docx>

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

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