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| Title | **IEEE 802 300 GHz Liaison to ITU-R WP 5C** |
| Date Submitted | **2016-09-13** |
| Source(s) | IEEE 802 TG 3D | E-mail: [Kuerner@ifn.ing.tu-bs.de](file:///C%3A%5C%5CUsers%5C%5Csr%5C%5CDesktop%5C%5CIEEE_Interim_Warschau%5C%5CLS_SanDiego%5C%5CWP5C%5C%5CKuerner%40ifn.ing.tu-bs.de) |
| Re: | ITU-R WP 5C LS requesting information on technical and operational characteristics for systems in the frequency range 275 to 450 GHz (Doc. IEEE 802.18-16-0059-00-0000) |
| Abstract | This document proposes a draft liaison statement to ITU-R WP 5C regarding the technical and operational characteristics for systems in the frequency range from 275 to 450 GHz. |
| Purpose | This contribution requests review by the IEEE 802.18 Technical Advisory Group and submittal of a version, revised to suit the TAG, to the IEEE 802 Executive Committee for approval under OM Subclause 8.2.1 as an intended contribution from IEEE to ITU-R Working Party 5C **for submission by IEEE by the deadline of 31 October 2016, 16:00 hours UTC**. |
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|  | **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
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| Received: Date 2016Subject:  | **Document –E** |
| **Date 2016** |
| **English only** |
| Institute of Electrical and Electronics Engineers, Inc. |
| draft liaison statement to working party 5C ON NEW REPORT itu-r f.[300GHz\_FS\_CHAR] Copy for information to Working Parties 1A, 5A, 7A, 7C |
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| Technical and operational characteristics and applications of the point-to-point fixed service applications operating in the frequency band 275-450 GHz |
| WRC-19 agenda item 1.15 |

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**1 Source information**

This contribution was developed by IEEE Project 802®, the Local and Metropolitan Area Network Standards Committee (“IEEE 802”), an international standards development committee organized under the IEEE and the IEEE Standards Association (“IEEE-SA”).

The content herein was approved for submission by the IEEE 802.15™ Working Group for WPAN, the IEEE 802.18 Radio Regulatory Technical Advisory Group, and the IEEE 802 Executive Committee, in accordance with the IEEE 802 policies and procedures, and represents the view of IEEE 802.

**2 Discussion**

WP 5C invited IEEE to provide information on technical and operational characteristics of their systems operating in the range 275 to 450 GHz.

On 16 March 2016 IEEE 802.15 TG3d has issued a call for proposals targeting at an amendment to IEEE 802.15.3 for switched point-to-point links operating in the frequency bands 252 to 325 GHz. The applications include intra-device communications, close proximity links, wireless links for data centers and front- and backhaul links for cellular networks. Links to the call for proposals and to the supporting documents are included in attachments 1-5 of annex 1.

In its July meeting initial proposals have been presented while the final proposal has been presented in the September meeting. The link to the proposals is attached in annex 2.

IEEE 802 TG 3d has discussed the technical and operational characteristics of the proposals for the future amendment of IEEE 802.15.3 in September 2016. Based on these discussions IEEE 802 TG 3d proposes the additions and changes to the NEW REPORT ITU-R F.[300GHz\_FS\_CHAR] attached in annex 3. The amendment is expected to be published in early 2018.

Since all the detailed technical and operational characteristics will be fixed only after completion of the amendment, IEEE 802 TG 3d will inform WP 5C if changes occur. For some of the characteristics, we are currently not in a position to provide numbers and details, and left these as “TBDs”.  More details could be provided once the first draft of the standard is ready, which is expected in early 2017. Please note that the scope of IEEE802 TG 3d is limited to the frequency range between 252 and 325 GHz. Please further note that, nonetheless, IEEE 802 is also interested in other higher frequency ranges above 325 GHz especially but not limited to similar applications.

**3 Summary**

We applaud the efforts of the participants in WP 5C for undertaking this work and giving IEEE 802 the opportunity to respond to the terahertz related matters in AI 1.15.

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