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| --- | --- | --- |
|  | **Radiocommunication Study Groups** |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** |  |
|  |  |
| Attachment 4.13 to Document 5D/374(Source: Document 5D/TEMP/182(Rev.1)) |  |
| **18 October 2016** |
| **English only** |
| Working Party 5D |
| Liaison statement to external organizations[[1]](#footnote-1) |
| Characteristics of terrestrial IMT systems for frequency sharing / interference analysis in the frequency range between 24.25 GHz and 86 GHz |

WP 5D would like to thank 3GPP for the response received as Document 5D/256 and welcomes further input on the parameters, based on the time plan as described in 3GPP response Also other EOs are welcomed to contribute.

Related to the clarification requested in Document [5D/256](http://www.itu.int/md/R15-WP5D-C-0155/en) on SINR range, where 3GPP TSG RAN noted “that the possible SINR range is very large and it is not clear what aspect of SINR that is requested”, WP5D would like to respond that the meaning of SINR range is in fact a mapping table between throughput and SINR for IMT-2020 in order to simulate IMT-2020 throughput loss due to external interference, in a form similar to Tables A.6 and A.7 found in TR 36.942. In case this type of mapping table would be available, WP5D would welcome that information.

Support from External Organizations

As in the previous liaison statements, WP 5D is seeking technical support and information relevant to the frequency range (24.25‑86 GHz) being studied under WRC-19 agenda item 1.13. In the last liaison statement, WP 5D provided a Table on technology-related parameters, which is reproduced in the Attachment, as an easy reference. It was not changed at WP5D#25 (Oct 2016).

The following guidance is offered to assist the EOs in developing their responses:

i) Utilizing the attached Table, please provide WP 5D with information on IMT-2020 technology-related parameters between 24.25 GHz and 86 GHz to be used in sharing and compatibility studies.

ii) WP 5D kindly asks for information requested above prior to the February 2017
meeting of WP 5D.

Deadline for contributions to the February WP 5D meeting is specified below.

| ITU-RGroup | MeetingNo. | Start(planned) | Stop(planned) |  | Deadline for Inputs | Requested fromExternal Organizations |
| --- | --- | --- | --- | --- | --- | --- |
| WP 5D | 26 | 14 Feb 17 | 22 Feb 17 |  | 7 Feb 17, 16:00 hours UTC | **Final deliverable**  |

|  |  |
| --- | --- |
| **Contact:** Sergio Buonomo  Counselor ITU-R SG 5 | **E-mail:** sergio.buonomo@itu.int |

Attachment

IMT-2020 technology-related parameters in the frequency range 24.25-86 GHz

TABLE 1

IMT-2020 technology related parameters in the frequency range 24.25-86 GHz

|  |  | IMT-2020  |
| --- | --- | --- |
| No. | Parameter | Base station | Mobile station |
| 1 | Duplex Method |  |  |
| **2** | **Channel bandwidth (MHz)** |  |  |
| **3** | **Signal bandwidth (MHz)** |  |  |
| **4** | **Transmitter characteristics** |  |  |
| 4.1 | Power dynamic range (dB) |  |  |
| 4.2 | Spectral mask |  |  |
| 4.3 | ACLR |  |  |
| 4.4 | Spurious emissions |  |  |
| **5** | **Receiver characteristics** |  |  |
| 5.1 | Noise figure |  |  |
| 5.2 | Sensitivity |  |  |
| 5.3 | Blocking response |  |  |
| 5.4 | ACS  |  |  |
| 5.5 | SINR operating range |  |  |
|  |  |  |  |

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1. 3GPP, 3GPP2, ARIB, ATIS, CCSA, ETSI, IEEE, ITRI, TIA, TSDSI, TTA, TTC and WiMAX Forum. [↑](#footnote-ref-1)