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| **Radiocommunication Study Groups** |  |
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| Annex 19 to Working Party 5A Chairman’s Report | |
| Working document towards a preliminary draft revisION OF Report ITU-R M.2116 | |
| Characteristics of broadband wireless access systems operating in the land mobile service for use in sharing studies | |

(Questions ITU-R 1/5 and ITU-R 7/5)

(2007-2010-2013)

*[Editor’s Note: This document is based on input contribution 5A/300 and was not reviewed at the May 2021 meeting of WP5A and therefore, none of the edits are agreed. It was pointed out during the initial discussion that the further progress of this revision will depend on progress made on the ongoing revisions of other WP5A deliverables.]*

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# 1 Introduction

This Report provides characteristics for a number of terrestrial broadband wireless access (BWA)[[1]](#footnote-1) systems, including mobile and nomadic applications, operating, in the mobile service for use in sharing studies between these terrestrial BWA systems and other fixed or mobile systems.

# 2 Characteristics

Annex 1 contains technical and operational characteristics of mobile BWA[[2]](#footnote-2) systems to be used for sharing studies for both mobile stations and base stations. It should be recognized that the footnotes in the Table provide important information on the derivation of particular values and any limits to their applicability for sharing studies. Therefore, these footnotes should be taken into account wherever referenced.

# 3 IMT-2000 radio interfaces

Terrestrial IMT-2000 systems[[3]](#footnote-3) meet the definition of BWA found in Recommendation ITU‑R F.1399. In addition to the characteristics found in Annex 1, sharing and deployment characteristics of IMT‑2000 systems can be found in Report ITU-R M.2039 – Characteristics of terrestrial IMT-2000 systems for frequency sharing/interference analyses, and are not duplicated herein. These systems should also be considered in sharing analysis involving BWA systems[[4]](#footnote-4).

# 4 IMT-Advanced radio interfaces

Terrestrial IMT-Advanced systems[[5]](#footnote-5) meet the definition of BWA found in Recommendation ITU‑R F.1399. In addition to the characteristics found in Annex 1, sharing and deployment characteristics of IMT‑Advanced systems can be found in Report ITU-R M.2292 – Characteristics of terrestrial IMT-Advanced systems for frequency sharing/interference analyses, and are not duplicated herein. These systems should also be considered in sharing analysis involving BWA systems.

# 5 RLAN characteristics

In addition to the characteristics found in Annex 1, characteristics of RLAN systems can be found in Recommendation ITU-R M.1450 – Characteristics of broadband radio local area networks, and are not duplicated herein.

# 6 IMT-2020 radio interfaces

Terrestrial IMT-2020 systems[[6]](#footnote-6) meet the definition of BWA found in Recommendation ITU‑R F.1399. Sharing and deployment characteristics of IMT‑2020 systems can be found in [XX, *Editor note: Please ITU-R WP 5D kindly provides corresponding deliverable document or other materials to improve the new chapter*], and are not duplicated herein. These systems should also be considered in sharing analysis involving BWA systems.

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1. “Wireless access” and “BWA” are defined in Recommendation ITU-R F.1399. [↑](#footnote-ref-1)
2. BWA radio interface standards can be found in Recommendation ITU-R M.1801 – Radio interface standards for broadband wireless access systems, including mobile and nomadic operations, in the mobile service operating below 6 GHz. [↑](#footnote-ref-2)
3. IMT-2000 radio interface standards are described in Recommendation ITU-R M.1457 – Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications‑2000 (IMT‑2000). [↑](#footnote-ref-3)
4. Recommendation ITU-R M.1823 provides values for some systems applicable to BWA. [↑](#footnote-ref-4)
5. IMT-Advanced radio interface standards are described in Recommendation ITU-R M.2012 – Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT-Advanced). [↑](#footnote-ref-5)
6. IMT-2020 radio interface standards are described in Recommendation ITU-R M.2150 – Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-2020 (IMT-2020). [↑](#footnote-ref-6)