

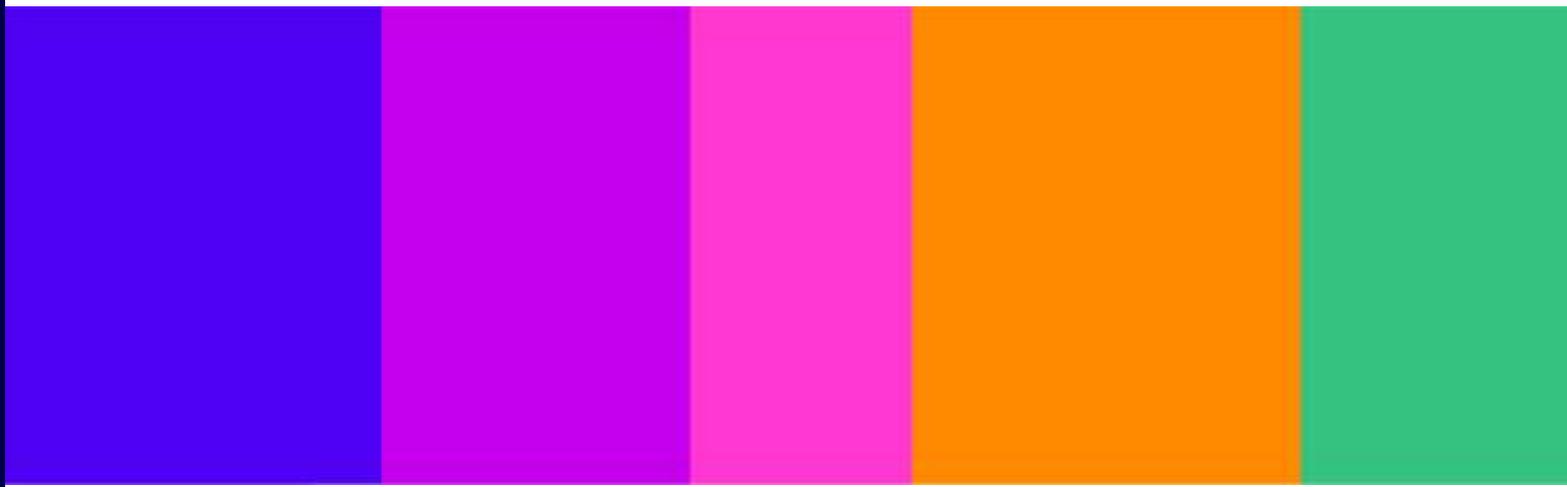
# Correction note

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Corrections to the degradation of mobile downlink performance analysis included in the consultation titled ‘Hybrid sharing: enabling both licensed mobile and Wi-Fi users to access the upper 6 GHz band’

## Correction note

Published 25 August 2023



# Overview

On 6 July 2023 Ofcom published a Consultation titled '[Hybrid sharing: enabling both licensed mobile and Wi-Fi users to access the upper 6 GHz band](#)'. That document included our exploration of options that would enable the introduction of both Wi-Fi and licensed mobile use of the upper 6 GHz band.

Since publication of that document, it has come to our attention that there are some errors in Annex 7 (paragraphs, A7.19 to A7.24) to the consultation. These relate to a link budget analysis looking at the separation distances that might be needed between Wi-Fi access points and licensed-mobile terminals and base stations to avoid mobile service degradation from nearby Wi-Fi transmissions.

Our analysis considered Wi-Fi transmit power and the relevant mobile terminal and base station noise floor in our calculations, but these were defined incorrectly using different bandwidths. We have also corrected the building entry loss values which incorrectly used a very deep indoor value in one scenario rather than the median value assumptions. This led to us overstating the required separation distances in our analysis. Correcting these errors leads to smaller separation distances. We are publishing this correction note for those interested stakeholders to consider in preparation for any responses to the above consultation which closes on the 15<sup>th</sup> September 2023.

The required corrections are:

- **Outdoor UEs:** The first part of paragraph A7.23 should refer to a separation of **18 metres** for Wi-Fi access points inside traditional buildings and access points deep inside thermally efficient buildings might not cause any degradation (rather than the 10–80 metre range covering both building types that we previously noted).
- **Indoor UEs:** The last sentence of paragraph A7.23 should refer to a minimum separation of **3 floors** to avoid degradation within a building -rather than the 4 floors we originally stated.
- **Outdoor macro cells:** In paragraph A7.24, the macro cell interference threshold should have been -128dBm/MHz (rather than the -117dBm/MHz we originally stated). This leads to Wi-Fi access points in traditional buildings causing some interference within approximately **170 metres** of the macro cell (rather than the 350 metres we originally stated). Similarly, a Wi-Fi access point inside a thermally efficient building might not cause any interference (we previously stated a separation distance of 50m may be needed).

We have reflected these changes within paragraphs A7.23 and A7.24 and associated paragraphs and footnotes of the consultation document (as version 2.0).

We note that our overall position, as described in the July consultation, remains unaffected by these corrections.