IEEE P802.18
Radio Regulatory Technical Advisory Group (RR-TAG)

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| Draft response to the UK Ofcom’s consultation: Updating Wireless Telegraphy Licence Exemptions |
| Date: 2025-02-27 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Dries Neirynck | Ultra Radio |  |  | dries.neirynck@ultra-radio.com |
| Dave Halasz | Morse Micro |  |  | dave.halasz@morsemicro.com |
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This document contains the draft of a proposed IEEE 802 LMSC response to the UK Ofcom’s consultation “Updating Wireless Telegraphy Licence Exemptions”.

Consultation response form

Please complete this form in full and return to regulations@ofcom.org.uk

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| --- | --- |
| Consultation title | Consultation: Updating Wireless Telegraphy Licence Exemptions |
| Full name |  |
| Contact phone number |  |
| Representing (delete as appropriate) | Self / Organisation |
| Organisation name | IEEE 802 LAN/MAN Standards Committee |
| Email address |  |

Confidentiality

We ask for your contact details along with your response so that we can engage with you on this consultation. For further information about how Ofcom handles your personal information and your corresponding rights, see [Ofcom’s General Privacy Statement](http://www.ofcom.org.uk/about-ofcom/foi-dp/general-privacy-statement).

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| Your details: We will keep your contact number and email address confidential. Is there anything else you want to keep confidential? Delete as appropriate. | Nothing  |
| Your response: Please indicate how much of your response you want to keep confidential. Delete as appropriate. | None  |
| For confidential responses, can Ofcom publish a reference to the contents of your response?  | Yes |

Your response

| Question | Your response |
| --- | --- |
| **Question 1**: Do you agree with our proposals to extend the licence exemption relating to mobile terminals connecting to an MCA to include 5G devices? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 2**: Do you agree with our proposals to extend the licence exemption relating to mobile terminals connecting to an MCV to include 5G terminals? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 3**: Do you agree with our proposals to introduce new licence exemptions for (i) Indoor Security Scanners and (ii) Audio PMSE devices? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 4**: Do you agree with our proposals to amend the technical conditions for various SRDs as set out in this document? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – N IEEE 802 LMSC is a leading consensus-based open standards development committee for networking standards that are used by industry globally. It produces standards for networking devices, including wired and wireless local area networks (“LANs” and “WLANs”), wireless specialty networks (“WSNs”), wireless metropolitan area networks (“Wireless MANs”), and wireless regional area networks (“WRANs”). Technologies produced by implementers of our standards are a critical element for all networked applications today.IEEE 802 LMSC is a committee of the IEEE Standards Association and of Technical Activities, two of the Major Organizational Units of the IEEE. IEEE has over 460,000 members in more than 190 countries and its core purpose is to foster technological innovation and excellence for the benefit of humanity. IEEE is also a major accredited standards development organization whose standards are recognized worldwide. In submitting this document, IEEE 802 LMSC acknowledges and respects that other components of IEEE Organizational Units may have perspectives that differ from, or compete with, those of IEEE 802 LMSC. Therefore, this submission should not be construed as representing the views of IEEE as a whole[[1]](#footnote-1).IEEE 802 LMSC follows Ofcom’s regulatory activities regarding license-exempt short-range devices closely and applauds Ofcom for consulting on updating the Wireless Telegraphy License Exemptions. Please find the IEEE 802 LMSC comments below.IEEE 802 LMSC commends Ofcom for replacing the phrase “may also be used” with “applies”. This gives clarity that the duty cycle limit applies when Listen Before Talk (LBT) and Adaptive Frequency Agility (AFA) or an equivalent mitigation technique is not used. |
| **Question 5**: Do you have any additional comments on our proposed changes to the licence exemption for SRD equipment? | Confidential – NNo comments |
| **Question 6**: Do you agree with our proposal to introduce new licence exemptions for Radiodetermination, Location Tracking, Tracing and Data Acquisition, Vehicle applications and High Power Indoor-only applications in the 6-8.5 GHz band? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NUltra-Wide Band (UWB) devices, as specified in IEEE 802.15 standards, are being used worldwide for a wide range of applications in communication, measurement, location, imaging, surveillance, and medical systems[[2]](#footnote-3), often in conjunction with other short range device technologies. UWB enhances the operation of such technologies and is an efficient means to share spectrum. The next generation of UWB technology, being developed under IEEE P802.15.4ab[[3]](#footnote-4), builds on IEEE Std 802.15.4z-2020[[4]](#footnote-5). Future developments supported by this project include:• Improved link budget and reduced air-time• Enhanced sensing capabilities for presence detection and environment mapping• Improved accuracy, precision, and reliability for high-integrity ranging• The use of interference mitigation techniques to support greater device density and higher traffic use cases• Improved coexistence with other services• Reduced complexity and power consumption• Enhanced support for ultra-low power, low latency streaming• Support for emerging applications such as high-definition audioIEEE 802 LMSC commends Ofcom for recognizing the rapidly growing value of UWB. Use of extremely low power UWB devices in accordance with ECC Decision (06)04 and the ETSI EN 302 065 series of standards harmonizes with worldwide regions, creates further economies of scale, and supports a robust equipment market, benefitting UK businesses, consumers, as well as providing significant societal benefits from the effective use of the radio spectrum. IEEE 802 LMSC completely endorses the implementation of new license-free provisions within the 6 GHz to 8.5 GHz frequency range. The sharing and compatibility studies in ECC Report 327 and CEPT Report 84 have shown that this can be done without risk of harmful interference to other spectrum users. |
| **Question 7**: Do you agree with our proposal to amend the existing licence exemption for generic UWB devices to make clear that the use of UWB in an aircraft, road vehicle or a train are not in scope of the exemption? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NIEEE 802 LMSC endorses the recommendation to specify that UWB technology in vehicle-related applications falls under dedicated vehicular regulations rather than general UWB rules. This clarification will ensure UK regulatory alignment with ECC Decision (06)04. |
| **Question 8:** Do you have any additional comments on our proposed changes to the licence exemption for UWB equipment? | Confidential – NNo comments |
| **Question 9:** Do you agree with our proposals to introduce a new licence-exemption for Group B AMRDs in Channel 2006? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 10:** Do you agree with our proposals to introduce a new licence exemption for very low power maritime radios operating in an on-land training setting to be made licence-exempt? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 11:** Do you agree with our proposals to extend the existing licence exemption for testing and development under suppressed radiation conditions? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 12:** Do you agree with our proposals to extend the application of Regulation 7 of the 1989 Regulations i.e. that equipment users must conduct measurements to ensure that their equipment does not exceed the limits on spurious emissions, to anyone relying on the proposed exemption in the additional bands. Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 13:** Do you have any other comments on our proposals to make amendments to the licence exemptions for this testing equipment? | Confidential – NNo comments |
| **Question 14:** Do you agree with our proposals to extend the existing exemption for radio equipment operated by visiting amateur radio users, to cover use by those on short visits from countries with which we have bilateral reciprocal licensing agreements? | Confidential – NNo comments |
| **Question 15:** Do you agree with our proposals to define a temporary visit as a maximum period of three months? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |
| **Question 16:** Do you agree with our proposal to introduce a new licence exemption for Fixed Wireless Access equipment operating in the 5725-5850 MHz band? Please give reasons and provide evidence that supports your comments on the proposals. | Confidential – NNo comments |

1. This document solely represents the views of IEEE 802 LMSC and does not necessarily represent a position of either the IEEE or the IEEE Standards Association or the IEEE Technical Activities. [↑](#footnote-ref-1)
2. See FiRa Consortium: Unleashing the Potential of UWB: Regulatory considerations, August 2022, <https://www.firaconsortium.org/sites/default/files/2022-08/Unleashing-the-Potential-of-UWB-Regulatory-Considerations.pdf> [accessed25 February 2025]. The introduction of IEEE 802.15 UWB-enabled devices in smartphones and laptops puts forecasts at more than 1 billion devices shipped annually worldwide by 2025. [↑](#footnote-ref-3)
3. See IEEE P802.15.4ab, <https://www.ieee802.org/15/pub/TG4ab.html> [accessed: 25 February 2024]. [↑](#footnote-ref-4)
4. “IEEE Standard for Low-Rate Wireless Networks--Amendment 1: Enhanced Ultra Wideband (UWB) Physical Layers (PHYs) and Associated Ranging Techniques,” in IEEE Std 802.15.4z-2020 (Amendment to IEEE Std 802.15.4-2020), vol., no., pp.1-174, 25 Aug. 2020, doi: 10.1109/IEEESTD.2020.9179124. [↑](#footnote-ref-5)