**Joint Actions on Harmonised Products 2021 - JAHARP2021 Omnibus**

**JAHARP2021 - 05- WLAN 5 GHz- Laboratory Questionnaire**

**Brussels, 04.04.2023**

*PROSAFE is issuing this questionnaire to all known competent test bodies to invite them to provide a non-binding assistance and baseline information useful for the preparation of a Call for Tenders.*

# Background and Scope

Stichting PROSAFE is an international non-governmental organisation established as a foundation in the Netherlands by market surveillance officers from various countries throughout Europe. Its main aim is to contribute to the safety of products and services by promoting best practices in market surveillance.

One of PROSAFE’s activities is to set up and coordinate Joint Market Surveillance Actions with the support of EU funding, such as JAHARP2021-05. The Joint Action runs between August 2022 and July 2024 (24 months duration).

The project addresses WLAN products operating in the 5GHz frequency band. There have been reports that these are interfering with the metrological radars and thus the action aims to identify non-compliant products and take actions that will bring them into conformity.

The JAHARP2021-05 is led by the Swiss Federal Office of Communications and supported by PROSAFE in the day-to-day management.

The JAHARP2021-05 Radio WLAN 5GHz involves 6 Market Surveillance Authorities from the following 6 countries: France, Greece, Latvia, Luxembourg, the Netherlands, and Switzerland (outside the framework of the Grant Agreement). The activity concerned falls within the scope of the Radio Equipment Directive. In the course of the activity, the Market Surveillance Authorities of each participating country will take samples of indoor and outdoor wireless router products, but some wireless network switches may also be investigated.

In the interim, PROSAFE would like to collect data from laboratories about testing information such as clauses in the standardisation, indicative pricing [[1]](#footnote-2) and duration of testing. The pricing information will be kept confidential to ensure a fair competition for all potential candidate laboratories. To facilitate this information gathering PROSAFE have developed this short questionnaire. PROSAFE would appreciate any assistance that you are willing to provide no later than 24 April 2023 by 12 pm CET.

In the end of April 2023, PROSAFE will issue an open Call for Tenders for a laboratory to carry out the testing. The Call will be published on the PROSAFE Website[[2]](#footnote-3), and will also be circulated by e-mail to all known competent European test bodies. The sampling and testing are expected to be carried out in the third trimester of 2023.

# Further Clarifications

Any questions of clarification or other queries about the questionnaire must be submitted in writing to ioana@prosafe.org AND mario@prosafe.org, and copied to jonathan.wood@tenvic.com with the subject header ‘*URGENT:* *Question for the JAHARP2021-05 Questionnaire*’.

# Submission of Questionnaire

Questionnaires must be sent via email to ioana@prosafe.org AND mario@prosafe.org with the subject header ‘*JAHARP2021-05 WLAN 5GHz – Questionnaire for testing labs*’ and copied to the Project Facilitator: Jonathan Wood, jonathan.wood@tenvic.com by 24 April 2023, 12:00 pm (CET).

# Questionnaire

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| **General Standards Question** |
| 1. Is your organisation aware of any issues with the harmonised standard ETSI EN 301 893 V2.1.1? If, yes, please provide details.
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|  |
| 1. Are you aware of any specific methods manufacturers are employing to circumvent the requirements in DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment? If, yes, please provide details.
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|  |
| **Capability of Testing** |
| 1. Are you accredited for ETSI EN 301 893 V2.1.1?
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|  |
| 1. What is the maximum number of WLAN 5 GHz products you could test against the testing requirements listed per week from May 2023 to December 2023?
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|  |
| 1. Do you have any specific requirements with regards to sampling (e.g. provision of two of each sample)?
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| **Indicative Pricing**  |
| Please provide indicative pricing for each of the testing requirements listed. Testing will be conducted as per Harmonised Standard ETSI EN 301 893 V2.1.1. It is understood that all applicable physical attributes of products required to determine compliance to legal requirements would also be recorded in test reports. If your laboratory does not provide testing/compliance checking for any parameter please identify by listening “**Not Available**” in the appropriate box.  |
| **Testing Parameter/Requirement** | **Cost Per Unit (€)** | **List any excluded product types and add separate pricing in brackets** |
| **No** | **Description** | **Reference: Clause No** | **U/C** | **Condition** |  |  |
| 1 | Carrier frequencies | 4.2.1 | U |  |  |  |
| ~~2~~ | ~~Nominal, and occupied, channel bandwidth~~ | ~~4.2.2~~ | ~~U~~ |  | **~~-~~** |  |
| 3 | RF output power | 4.2.3 | U |  |  |  |
|  | Transmit Power Control (TPC) | 4.2.3 | C | 1)Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz2)Not required for devices that operate at a maximum mean e.i.r.p. of 20 dBm when operating in 5 250 MHz to 5 350 MHz or 27 dBm when operating in 5 470 MHz to 5 725 MHz. |  |  |
|  | Power Density | 4.2.3 | U |  |  |  |
| ~~4~~ | ~~Transmitter unwanted emissions outside the 5 GHz RLAN bands~~ | ~~4.2.4.1~~ | ~~U~~ |  | **~~-~~** |  |
| ~~5~~ | ~~Transmitter unwanted emissions within the 5 GHz RLAN bands~~ | ~~4.2.4.2~~ | ~~U~~ |  | **~~-~~** |  |
| ~~6~~ | ~~Receiver spurious emissions~~ | ~~4.2.5~~ | ~~U~~ |  | **~~-~~** |  |
| 7 | DFS: Channel Availability Check | 4.2.6.2.2 | C | 1) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.2) Not required for Slave devices with a maximum transmit power of less than 200 mW e.i.r.p.3) Not required at initial use of a channel for slave devices with a maximum transmit power of 200 mW e.i.r.p. |  |  |
| 8 | DFS: Off-Channel CAC - Radar Detection Threshold Level | 4.2.6.2.3 | C | 1) Where implemented by the manufacturer.2) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.3) Not required for slave devices with a maximum transmit power of less than 200 mW e.i.r.p4) Not required at initial use of a channel for Slave devices with a maximum transmit power of 200 mW e.i.r.p |  |  |
| 9 | DFS: Off-Channel CAC - Detection Probability | 4.2.6.2.3 | C | 1) Where implemented by the manufacturer.2) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.3) Not required for slave devices with a maximum transmit power of less than 200 mW e.i.r.p.4) Not required at initial use of a channel for Slave devices with a maximum transmit power of 200 mW e.i.r.p. |  |  |
| 10 | DFS: In service Monitoring | 4.2.6.2.4 | C | 1) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.2) Not required for Slave devices with a maximum transmit power of less than 200 mW e.i.r.p. |  |  |
| 11 | DFS: Channel shutdown | 4.2.6.2.5 | C | Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz. |  |  |
| 12 | DFS: Non-occupancy period | 4.2.6.2.6 | C | 1) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.2) Not required for Slave devices with a maximum transmit power of less than 200 mW e.i.r.p. |  |  |
| 13 | DFS: Uniform spreading | 4.2.6.2.7 | C | 1) Not required for channels whose nominal bandwidth falls completely within the band 5 150 MHz to 5 250 MHz.2) Not required for slave devices. |  |  |
| ~~14~~ | ~~Adaptivity~~ | ~~4.2.7~~ | ~~U~~ |  | **~~-~~** |  |
| ~~15~~ | ~~Receiver Blocking~~ | ~~4.2.8~~ | ~~U~~ |  | **~~-~~** |  |
| 16 | User Access Restrictions | 4.2.9 | U |  |  |  |
| ~~17~~ | ~~Geo-location capability~~ | ~~4.2.10~~ | ~~C~~ | ~~Where implemented by the manufacturer.~~ | **~~-~~** |  |

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1. PROSAFE understand that any indicative pricing is provided as an approximation only to aid with project planning and in no way obligates laboratories to maintain this pricing during the tendering process. [↑](#footnote-ref-2)
2. <https://www.prosafe.org/> [↑](#footnote-ref-3)