IEEE P802.11
Wireless LANs

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| Liaison statement from ETSI re: WLAN Sensing |
| Date: 2024-01-03 |
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Abstract

This document contains a liaison received from ETSI related to formation of a new ETSI Industry Specification Group for Integrated Sensing and Communications (ISG ISAC). The received liaison is embedded below and copied on the following pages.

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| **Liaison Statement** |
| **Title:** | Launch of new ETSI ISG ISAC |
| Date: | December 11, 2023 |
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| **From** (source): | ETSI ISG ISAC  |
| Contact(s): | Alain Mourad (alain.mourad@interdigital.com)ISGSupport@etsi.org |
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| **Copy to:** |  |
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| Response to:(if applicable) |  |
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| Attachments: (if applicable) |  |
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**1. Overall description:**

ETSI has recently launched a new Industry Specification Group for Integrated Sensing and Communications (ISG ISAC) for an inaugural 2-year release. This group will establish the technical foundations for ISAC technology development and standardization in 6G.

87 participants from both the industrial sphere and the academic sphere took an active part in the kick-off meeting, which was held at ETSI premises, in Sophia Antipolis, France, on November 17, 2023. The founding members of the group elected Alain Mourad from InterDigital as Chair of the group, and Ayman Naguib from Apple, Richard Stirling-Gallacher from Huawei, and Henk Wymeersch from Chalmers University of Technology as the Vice Chairs.

ISAC refers to the use of radio signals to detect and estimate characteristics of objects in the environment with the network acting as a “radar” sensor utilizing its own radio signals to comprehend the physical world it operates within. This enables the network to collect data on a plethora of device and object features, which can be used to enhance network operations, augment existing services such as XR and digital twins, and enable new services like gesture and activity recognition, object detection and tracking, and imaging and environment reconstruction.

The ETSI ISAC ISG’s mission is to enable ETSI members to coordinate their 6G pre-standard research efforts on ISAC and pave the way for the 6G standardization of the technology. The group will define a prioritized set of 6G use cases and sensing types, along with a roadmap for their analysis and evaluation. The group also aims to develop advanced channel models for ISAC use cases and sensing types, with validation through extensive measurement campaigns, addressing gaps in existing channel models (e.g., 3GPP, IEEE 802. ITU-R). Output for architectures and deployment considerations, KPIs, and evaluation methodologies will also be provided.

In parallel, the group will undertake two studies, with a first analysis of the privacy and security aspects associated with sensing within the ISAC 6G framework, and a second analysis of the impact of widespread deployment of ISAC on the UN sustainable development goals.

ETSI ISG ISAC initially (in the first 2-year release) intends to produce informative documents such as ETSI Group Reports (GR), as well as evaluation framework documents including simulations and measurements. The group’s activities and deliverables will be complementary to existing work on ISAC in standards development organizations including ETSI. ISG ISAC will establish relationships with other ETSI bodies and the wider industry to avoid duplication, maximize synergies and act to ensure broad industry adoption of ISAC technology.

Further information on the ETSI ISG ISAC terms of reference, work programme, planned deliverables, and other documentations are available through the ISG portal: [ETSI ISAC committee page](https://www.etsi.org/committee/isac)

To get involved with ETSI ISG ISAC, please contact isgsupport@etsi.org.

**2. Actions:**

For Information (no action required).

**3. Date of next meetings of the originator:**

Meeting February 8-9, 2024, Sophia Antipolis

Best regards,

ETSI ISG ISAC Chair

Alain Mourad (InterDigital)

**References:**