IEEE P802.11
Wireless LANs

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| Liaison statement from ETSI ISG ISAC |
| Date: 2024-03-14 |
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Abstract

This document contains a liaison received from ETSI ISG ISAC regarding the approval of its first 4 Work Items. The liaison is embedded below and copied on the following pages.



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| **Liaison Statement** |
| **Title:** | Approval of ETSI ISG ISAC Work Items |
| Date: | February 20th, 2024 |
|  |  |
| **From** (source): | ETSI ISG ISAC  |
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| Response to:(if applicable) |  |
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| Attachments: (if applicable) | n/a |
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**1. Overall description:**

ETSI’s Industry Specification Group (ISG) on Integrated Sensing And Communications (ISAC) was officially launched on the 19th September 2023 for an initial phase of two-year duration. During this first phase, ETSI ISG ISAC will prepare systematic output on 6G use cases, channel models, architecture and deployment considerations, KPIs and evaluation assumptions, for subsequent evaluation by standards organizations such as 3GPP future 6G releases and ITU-R IMT-2030 deliverables, thus paving the way for future standardization of this technology.

After the kick-off meeting and a first Plenary meeting, ETSI ISG ISAC has approved the first set of four work items (WIs) following from suitable proposals from the Rapporteurs that led to an agreed Work Programme. The group within the first phase of the ISG will be focused on defining use cases and deployment scenarios; covering ISAC channel modeling, measurements and evaluation methodology; discussing System and RAN architectures; and studying the relevant security, privacy, trustworthiness and sustainability aspects of ISAC.

A summary of the approved first set of WIs is provided in Table 1. A timeline of execution of the agreed Work Programme in the period 2024-2025 is also provided in Figure 1. ETSI ISG ISAC will consider these reports, which will be streamlined from global pre-standards research efforts, to be instrumental for any further study or specification work in the relevant SDOs (including 3GPP TSG RAN).

**Table 1 ISG ISAC Work Programme.**

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| **WI** | **Scope** | **Rapporteur**  |
| [DGR/ISC-001 (GR)](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=69552): *Use Cases and Deployment Scenarios*  | The work item will: (i) Define, select and prioritize 6G use cases for integrated sensing and communications; (ii) Identify and describe the corresponding deployment scenarios and the potentially suitable frequency bands; (iii) Define, characterize and evaluate the relevance of different sensing types and integration levels, and their mapping to the selected use cases / deployments; (iv) Identify requirements and define key performance/value indicators for the identified use cases. | Cristina Ciochina-Duchesne (Mitsubishi Electric RCE) |
| [DGR/ISC-002 (GR)](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=69553): *Channel Modeling, Measurements and Evaluation Methodology* | The work item will for the identified 6G ISAC use cases and sensing types: (i) Develop advanced channel models and validation through extensive measurement campaigns and emulations, that can fill the gaps of existing channel models (e.g. 3GPP, IEEE 802, ITU-R); (ii) Define evaluation methodology framework and perform feasibility analysis of link budgets using the proposed channel models. | Chuangxin Jiang (ZTE Corporation) |
| [DGR/ISC-003 (GR)](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=69555): *System and RAN Architectures* | The work item targets system and RAN architecture framework and definition for ISAC and will focus on the identified sensing types, integration levels and deployments towards 6G. The study will include the identification, considerations, and potential approaches around 6G ISAC system architectural issues, RAN architectural issues, and ISAC RAN challenges. | Richard Stirling-Gallacher (Huawei TECH.GmbH) |
| [DGR/ISC-004 (GR)](https://portal.etsi.org/webapp/WorkProgram/Report_WorkItem.asp?WKI_ID=69556): *Security, Privacy, Trustworthiness and Sustainability* | The work item will: (i) Identify security and privacy requirements for the identified 6G ISAC use cases (ii) Define new security and privacy metrics and approaches for different cases of ISAC (joint, sensing-aided communications, communication-aided sensing) and different sensing types. Define Trustworthiness metrics of sensing data (iii) Study candidate ISAC transmission and protocols from the perspective of identified security and privacy metrics (iv) Investigate techniques to assess trustworthiness of sensing results (v) Study the impact of ISAC deployment on sustainability goals, (vi) Study potential regulatory aspects related to privacy and security. | Ayman Naguib (Apple France)  |



**Figure 1:** **ISG ISAC timeline of execution of the agreed Work Programme in 2024-2025.**

ETSI ISG ISAC will focus on informative work in this first period including assessing the technology potential of ISAC and providing technical requirements.

Further information on the ETSI ISG ISAC terms of reference, work programme, planned deliverables, and other documentations are available through the ISG portal: [Link to ISG ISAC Portal](https://portal.etsi.org/tb.aspx?tbid=912&SubTB=912#/).

**2. Actions:**

For information (no action required).

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

ETSI ISG ISAC has 4 plenary meetings scheduled per year, with additional online meetings. The next (online) meeting is scheduled on March 13, 2024.

# References: