



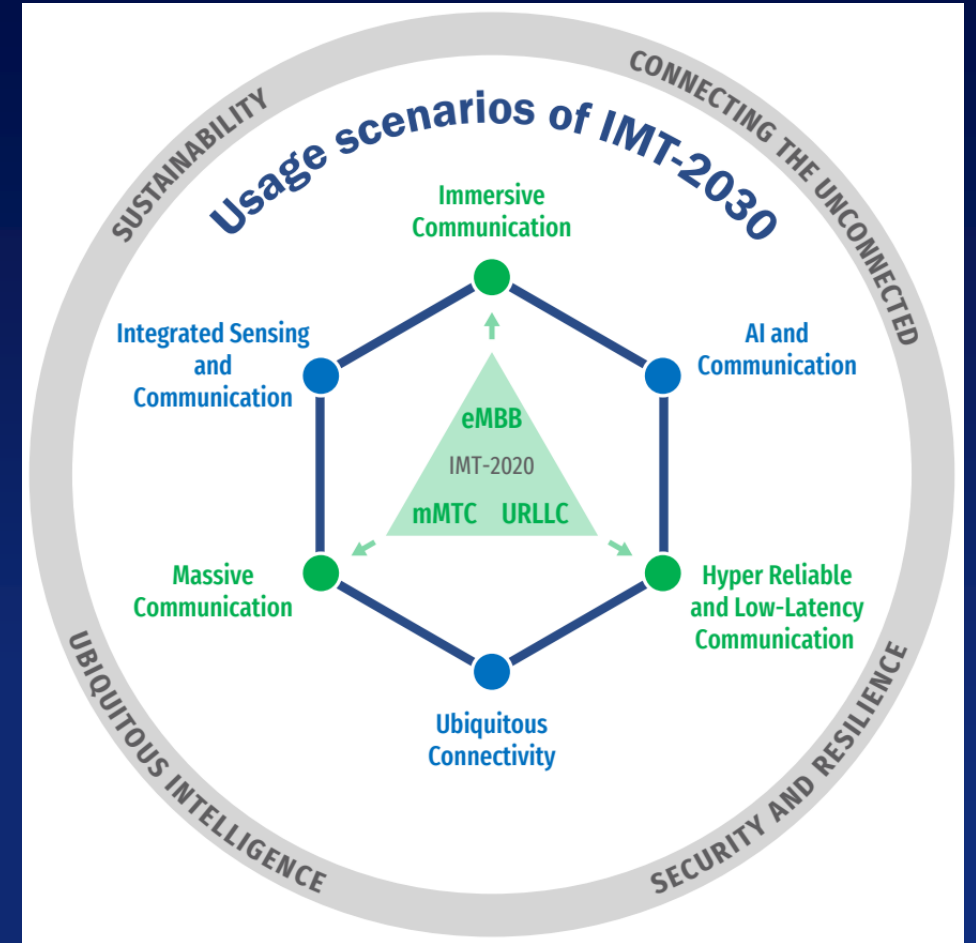
ETSI ISAC ISG

Alain Mourad

ETSI-SNS JU Joint Webinar
20 April 2026

ISAC ISG Timeline

- 1 (Apr'23) ISAC ISG incubation started following adoption by ITU-R IMT-2030 Framework (M.2160)
- 2 (Sep'23) Approval of the 1st Release (2Y) by ETSI DG after presentation to ETSI Board
- 3 (Nov'23) Approval and Launch of 1st Release Work Programme (4+1 Work Items)
- 4 (Jun'25) Approval of the 2nd Release (2Y) by ETSI DG after presentation to ETSI Board
- 5 (Dec'25) Approval and Launch of 2nd Release Work Programme (4 new Work Items)



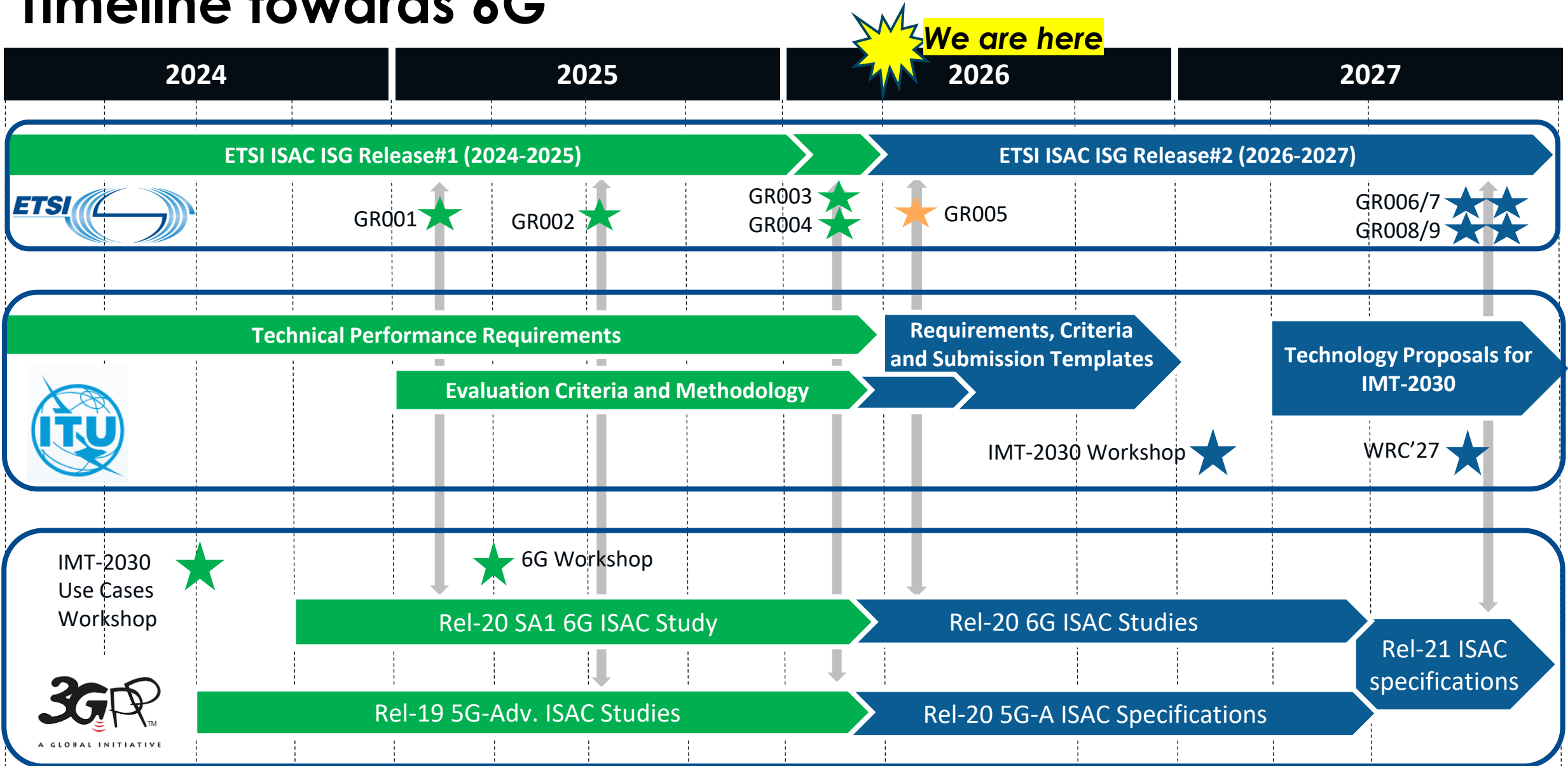
ETSI ISAC Industry Specification Group (ISG)

- **Mission:** Establish the technical foundation for ISAC development and standardization in 6G
- **Members:** 116 + 1 Counsellor (EC) ([Click Here](#))
- **Release#1** – 2Y (2024/2025)
 - **WI#1:** Use Cases and Deployment Scenarios
 - **WI#2:** Channel Modelling, Measurements and Evaluation Methodology
 - **WI#3:** System and RAN Architecture
 - **WI#4:** Security, Privacy, Trustworthiness, and Sustainability
 - **WI#5:** Integration of Computing with ISAC
- **Release#2** – 2Y (2026/2027)
 - **WI#6:** Enhanced System and RAN Architectures
 - **WI#7:** Security, Privacy, Resilience and Trustworthiness
 - **WI#8:** AIML and Data Handling
 - **WI#9:** Demonstrability, Adoption, and Technology Evolution

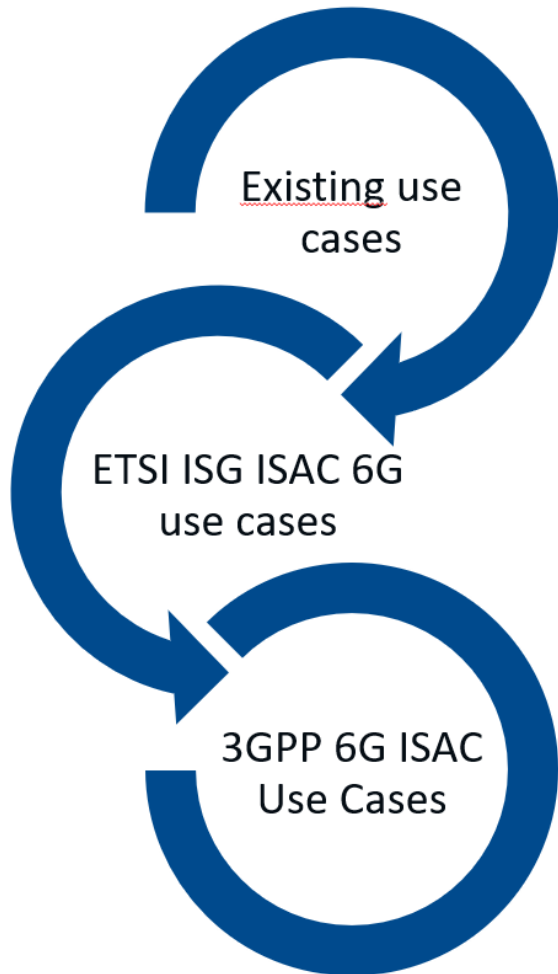
- Chair
 - Alain Mourad (InterDigital)
- Vice-Chairs
 - Ayman Naguib (Apple)
 - Richard Stirling Gallacher (Huawei)
 - Christos Masouros (UCL) – Rel#2
 - Henk Wymeersch (Chalmers) – Rel#1
- Rapporteurs
 - WI#1: Cristina Ciochina (Mitsubishi)
 - WI#2: Chuangxin Jiang (ZTE)
 - WI#3: Richard Stirling Gallacher (Huawei)
 - WI#4: Benedikt Schweizer (Apple)
 - WI#5: David González (Aumovio)
 - WI#6: Richard Stirling Gallacher (Huawei)
 - WI#7: Cagri Etemoglu (Turk Telekom)
 - WI#8: Gordon Young (Xiaomi)
 - WI#9: David González (Aumovio)
- Secretary
 - Javier Lorca Hernando (InterDigital)
- Technical Officer
 - Gabriele Perrone (ETSI)



Timeline towards 6G



WI#1: Use Cases and Deployment Scenarios



- 3GPP Rel.19 5G-A ISAC
- ETSI ISG THz, ETSI ISG RIS
- IEEE
- Professional associations
- Collaborative projects
- Litterature

- ETSI ISG ISAC 6G use cases
- 3GPP 6G ISAC use cases

ETSI GR ISC 001 v1.1.1 (2025-03)



**Integrated Sensing And Communications (ISAC);
Use Cases and Deployment Scenarios**

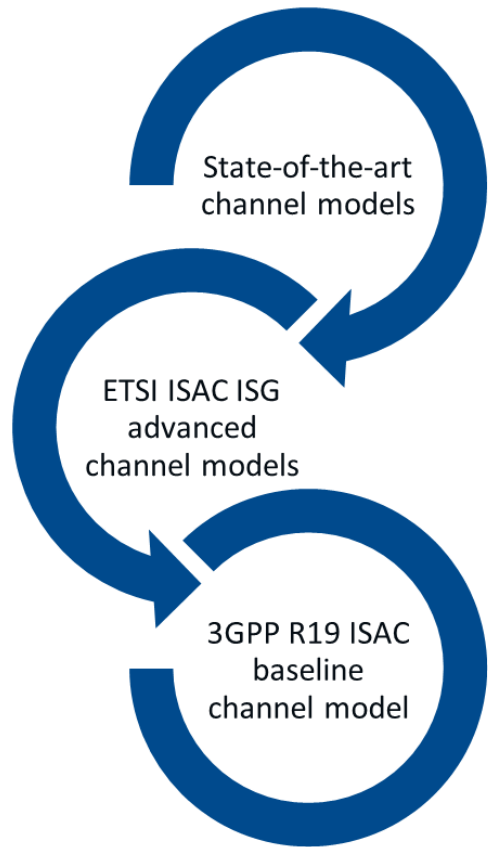
Disclaimer

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[GR ISC 001 Download](#)




WI#2: Channel Modelling, Measurements and Evaluation Methodology



- Academic research
- IEEE 802.11bf
- 3GPP TR 38.901
- Other forums review, e.g.
 - ATIS
 - ETSI ISG RIS and THz
 - INTERACT Cost Action
 - ITU-R
- Advanced RCS modelling
- Micro-Doppler Modelling
- Micro-deformation channel modelling
- Rain Attenuation Modelling
- TR38.901 communication channel extensions
- Sensing targets and environmental objects
- Simplified RCS, mobility and clutter patterns
- Spatial consistency

ETSI GR ISC 002 v1.1.1 (2025-08)



GROUP REPORT

**Integrated Sensing And Communications (ISAC);
Channel Modelling, Measurements and
Evaluation Methodology**

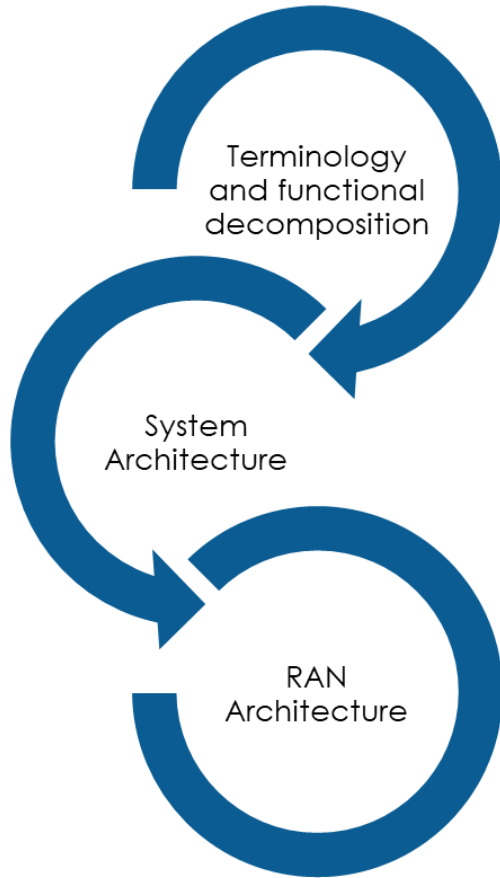
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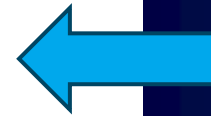
WI#3: System and RAN Architectures



- Sensing Modes
- Integration Levels
- System Terminology

- System Reference Model
- Identified Challenges
- Potential Approaches

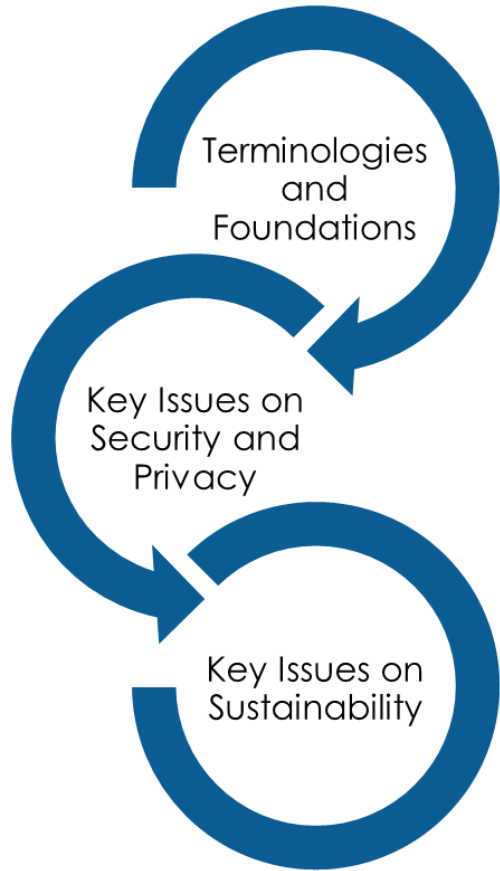
- RAN Architecture and Interfaces
- Lower Layer RAN
- Identified Challenges
- Potential Approaches



[GR ISC 003 Download](#)



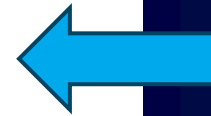
WI#4: Security, Privacy, Trustworthiness and Sustainability



- Security
- Personal Identifiable Information
- Privacy
- Trustworthiness
- Policy, Consent, Transparency
- Sustainability

- 15 Key Issues
- Consolidated Requirements

- 4 Key Issues
- Consolidated Requirements



ETSI GR ISC 004 V1.1.1 (2026-02)



**Integrated Sensing And Communications (ISAC);
Security, Privacy, Trustworthiness and Sustainability**

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[GR ISC 004 Download](#)





Coming Up: Next GRs

ISAC

  DGR/ISC-005 (GR ISC 005)



Integration of Computing with ISAC

Due (Q2'26)

  DGR/ISC-006 (GR ISC 006)



Enhanced System and RAN Architectures for ISAC

Due (Q4'27)

  DGR/ISC-007 (GR ISC 007)



Security, Privacy, Resilience and Trustworthiness for ISAC

Due (Q4'27)

  DGR/ISC-008 (GR ISC 008)

AIML and Data Handling for ISAC

Due (Q4'27)

  DGR/ISC-009 (GR ISC 009)

Demonstrability, Adoption, and Technology Evolution for ISAC

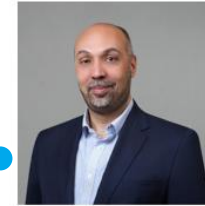
Due (Q4'27)



ETSI-3GPP ISAC Webinars

(27 June 2025) 6G ISAC: Crystallizing the Use Cases and Their Requirements

<https://www.brighttalk.com/webcast/12761/643084>



Alain Mourad

Chair ETSI ISAC ISG



Cristina Ciochina

Rapporteur of ETSI ISG ISAC DGR/ISC-001 on ISAC Use Cases and Deployment Scenarios.



Vasil Aleksiev

Chair 3GPP SA1 and Rapporteur of Rel19 3GPP SA1 Study Item FS_Sensing

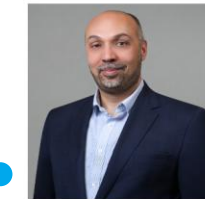


Jose Luis Almodovar Chico

Former Chair 3GPP SA1

(28 October 2025) ISAC Channel Modelling: A Steppingstone in the Journey to ISAC Standardization

<https://www.brighttalk.com/webcast/12761/652883>



Alain Mourad

Chair ETSI ISAC ISG



Chuangxin Jiang

Rapporteur of ETSI ISG ISAC DGR/ISC-002 on ISAC channel modeling.



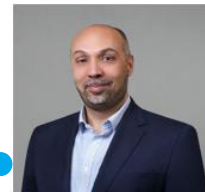
Yingyang Li

Rapporteur of 3GPP Rel-19 SI Study on channel modelling for ISAC, and Rel-20 SI Study on ISAC

Coming up next →

(01 July 2026) ISAC System and RAN architectural considerations at ETSI and 3GPP

<https://www.brighttalk.com/webcast/12761/666436>



Alain Mourad

Chair ETSI ISAC ISG



Richard Stirling Gallacher

Rapporteur of ETSI ISG ISAC DGR/ISC-003 on ISAC System and RAN Architectures



Jianing Liu

Co-Rapporteur 3GPP SA2 5G-A ISAC Study Item



David Gutierrez

Co-Rapporteur 3GPP SA2 5G-A ISAC Study Item





INNOVATING TODAY,
EMPOWERING TOMORROW™