Co-funded by the European Union

PRESS RELEASE

21 August, 2024

SAFE-6G Project: Pioneering a Secure, User-Centric Future for 6G Networks

SAFE-6G Project Announces Adoption of ETSI OpenCAPIF Release 1

The SAFE-6G project is proud to announce the adoption of ETSI's recently launched OpenCAPIF Release 1(https://ocf.etsi.org/news/20240709_etsi_annouces_opencapif_release_1/), a groundbreaking development in the field of communication technologies. This strategic move underscores SAFE-6G's commitment to leveraging cutting-edge standards to propel the future of secure and efficient 6G networks.

The European Telecommunications Standards Institute (ETSI) unveiled OpenCAPIF Release 1 on July 9, 2024. This new release is a pivotal milestone aimed at standardizing the interface for communication and application services, ensuring interoperability, and enhancing the overall ecosystem of 6G technologies. OpenCAPIF (Open Communication and Application Programming Interface Framework) offers a robust framework that addresses the complexities of next-generation networks and fosters innovation and seamless integration across diverse platforms.

Highlights of ETSI OpenCAPIF Release 1:

- **Interoperability**: Ensures seamless integration across different systems and devices, facilitating a cohesive 6G environment.
- **Standardization**: Provides a unified framework for communication interfaces, reducing fragmentation and promoting consistency.

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- **Innovation**: Encourages the development of new applications and services, driving technological advancements and enhancing user experiences.
- **Security**: Integrates advanced security features to safeguard data and communication channels, aligning with the stringent security requirements of 6G networks.

OpenCAPIF is crucial in the SAFE-6G framework by facilitating the consistent exposure of APIs related to service mesh networking and AI-resource orchestration. This capability allows the Cognitive Trustworthiness Framework to gain real-time awareness of the network's runtime conditions. As a result, it can make necessary adaptations to ensure and sustain a predefined level of trust throughout the system.

The SAFE-6G project, dedicated to advancing the security and efficiency of 6G technologies, recognizes the immense potential of OpenCAPIF Release 1 in achieving its mission. By incorporating this standard, SAFE-6G aims to enhance the reliability, interoperability, and security of 6G networks, paving the way for a more connected and secure digital future.

The B5G Athens Experimentation Platform:

The B5G Athens Experimentation Platform is a cutting-edge facility for 5G Standalone (SA) network testing, spread across the NCSR Demokritos and COSMOTE/OTE Academy campuses in Athens, interconnected by a dedicated 10G dark fiber link. This platform features two fully operational 5G SA networks:

- Network 1: Utilizes ATHONET 5G SA Core and ERICSSON equipment, deployed at both campuses, creating a large-scale network with six indoor/outdoor cells.
- Network 2: Located at the NCSR Demokritos campus, incorporating Amarisoft 5G RAN and various 5G SA Core implementations, enabling research on inter-PLMN handover and roaming scenarios.

Additionally, the platform includes a satellite/NTN emulator for versatile, low-cost multi-operator and multi-access experiments. Key technologies supported include ATSSS for efficient multi-RAT usage and MPTCP for enhanced QoS in hybrid access scenarios.

This platform supports extensive experimentation methodologies, offering robust capabilities for 5G and Beyond 5G (B5G) research, enabling significant advancements in next-generation network technologies.

About SAFE-6G:

The SAFE-6G project is an innovative initiative focused on enhancing the security, reliability, and efficiency of 6G networks. Through research, development, and collaboration with industry leaders and standardization bodies, SAFE-6G aims to shape the future of global communication technologies.

About ETSI:

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The European Telecommunications Standards Institute (ETSI) is an independent, not-for-profit organization that develops globally applicable standards for Information and Communications Technologies (ICT). ETSI's standards support the deployment of key global technologies and address the needs of a connected world.

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