



ETSI ISG NFV

Working Group Security

Securing the Future of Virtualised Infrastructure

Our Mission

The ISG NFV (Network Function Virtualisation) facilitates the industry transformation towards an open, interoperable ecosystem through specification, implementation, and deployment experience.

The Working Group Security (WG SEC) works to secure NFV, ensuring trusted, safe, and resilient deployment.

Why It Matters

- Critical infrastructure now runs on virtual machines and containers
- Attacks are increasing (Salt Typhoon and more)
- Risks include major network disruption and even potential loss of life

What We Do

WG SEC ensures NFV can be deployed securely and confidently by focusing on:

- Threat Analysis – Identifying and assessing risks in virtualised environments
- Requirements – Defining security and service needs across the ecosystem
- Best Practices – Promoting effective tools, controls, and techniques
- Lifecycle Security – From design to deployment and run-time
- Privacy & Compliance – Supporting data protection and lawful intercept
- Collaboration – Working with experts, open-source, and accreditation bodies

Key Work Areas

- ETSI GS NFV-SEC 020 – Identity Management and Security
- ETSI GS NFV-SEC 023 – Container Security
- ETSI GS NFV-SEC 024 – Security Management
- ETSI GS NFV-SEC 025 – Secure End-to-End Virtual Network Function (VNF) & Network Service Management
- ETSI GS NFV-IFA 026, 033 & NFV-SOL 023 – Security and Certificate Management

Recent Publications



Collaboration

In addition to working closely with other WGs of ISG NFV, WG SEC collaborates with TC CYBER as well as other SDOs such as 3GPP SA3, IETF RATS & LAMPS, ITU-T WP 1/13, GSMA NESASG & PQTN TF, the O-RAN Alliance.

Get Involved

Join ETSI ISG NFV WG SEC and help shape secure, interoperable NFV standards.

Together, we protect networks, strengthen resilience, and build trust in critical digital infrastructure.

Contact ETSI NFV

NFVsupport@etsi.org



ETSI NFV Portal:

<https://portal.etsi.org/NFV>

Mr Leslie Willis, NFV SEC Chair

Leslie Willis

Mr Stere Preda, NFV SEC Vice-Chair

Stere Preda

Mr Antoine Mouquet, NFV Technical Officer

Antoine Mouquet

About ETSI

ETSI is one of only three bodies officially recognised by the European Union as a European Standards Organisation (ESO). It is an independent, not-for-profit body dedicated to ICT standardisation. With over 900 member organisations from more than 60 countries across five continents, ETSI offers an open and inclusive environment for members representing large and small private companies, research institutions, academia, governments, and public organisations. ETSI supports the timely development, ratification, and testing of globally applicable standards for ICT-enabled systems, applications, and services across all sectors of industry and society.

