



INSPIRE-5Gplus

5G+ Security News

Issue 4-5 / March-June 2021

Editorial

Dear reader,

Despite the ongoing Covid-19-related restrictions, INSPIRE-5Gplus has significantly progressed its work in the last six months, as you can read in this third edition of our newsletter.

In the Results section, we are proud to inform you about our Initial Report on Security Use Cases, Enablers and Mechanisms for Liability-aware Trustable Smart 5G Security (D2.2). Furthermore, we would like to draw your attention to our recent top-level paper publications.

In the Events section, we report about six events to which INSPIRE-5Gplus contributed, including our FAST workshop at the EuCNC & 6G Summit and our workshop on accountability and liability for 5G and Beyond.

If you would like to stay up-to-date with our activities and results, we recommend to follow us on Twitter where we regularly post under @INSPIRE_5Gplus. In addition, you could also regularly check the News section on our project website.

We hope you find the information in our newsletter interesting and valuable, and we look forward to any questions or comments you may have.

Kind regards,

The INSPIRE-5Gplus Team

Results



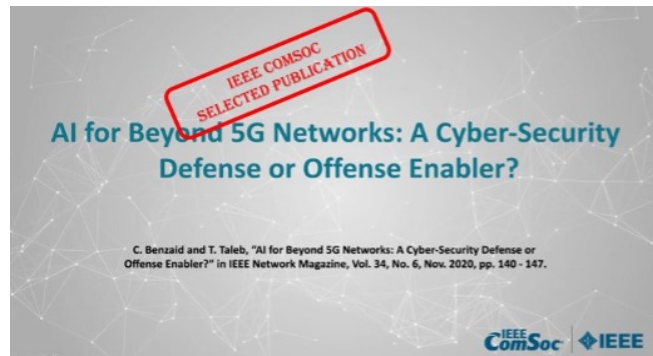
[Initial Report on Security Use Cases, Enablers and Mechanisms for Liability-aware](#)

Trustable Smart 5G Security – INSPIRE-5Gplus Deliverable D2.2

INSPIRE-5Gplus Deliverable D2.2 introduces the enablements that support current and future security assets and architectures in present 5G and beyond. A description of these enablements and the current state of the art is revisited while identifying inherent risks and challenges from their usage, while envisaging their possible usages. Based on these technologies and the enablements introduced, a set of initial ...

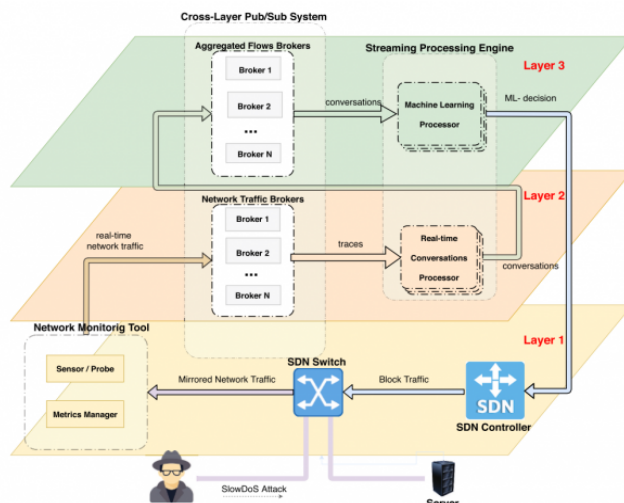
[Read more.](#)

INSPIRE-5Gplus paper on AI for B5G security included among IEEE ComSoc Selected Publications



The INSPIRE-5Gplus related paper “AI for Beyond 5G Networks: A Cyber-Security Defense or Offense Enabler?” has been chosen by the IEEE Communications Society Online Content Board to be included among ComSoc’s Selected Publications. The paper published in IEEE Network Magazine is co-authored by Dr. Chafika Benzaid and Prof. Tarik Taleb from INSPIRE-5Gplus partner Aalto University. Their paper sheds light on ...

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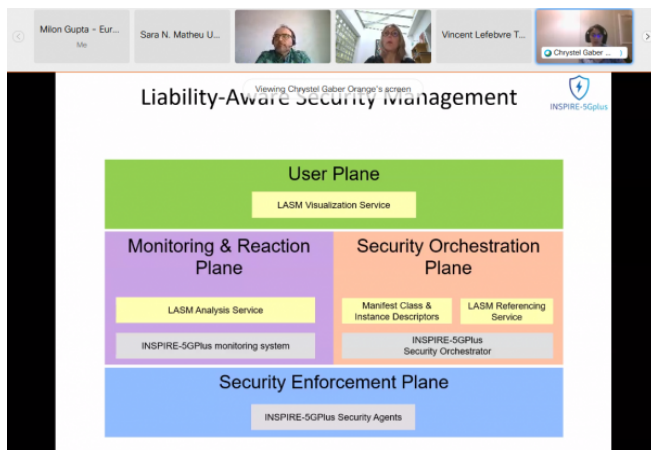
INSPIRE-5Gplus developments published in top-ranked journal

The INSPIRE-5Gplus-related paper entitled “Distributed real-time SlowDoS attacks detection over encrypted traffic using Artificial Intelligence” has been recently published in the prestigious Elsevier’s Journal of Network and Computer

Applications. This research focuses on Slow Denial of Service (SlowDos) attacks, which exploit slow transmissions on application-level protocols like HTTP to carry out denial of service against web-servers. These attacks are difficult ...

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Event Reports

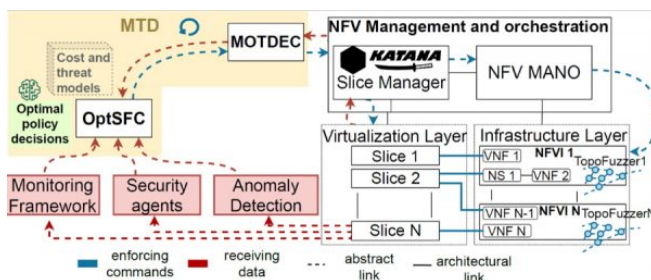


[INSPIRE-5Gplus Workshop on Accountability and Liability for 5G and Beyond](#)

On 16th June, INSPIRE-5Gplus held a full-day online workshop on accountability and liability for 5G and

beyond. It brought together more than 30 researchers and practitioners from several domains, including actuaries, lawyers, and researchers in networking and multi-agent systems. They presented challenges and approaches for liability management in multi-party 5G ecosystems and digital services, with a forward-looking perspective on Beyond ...

[Read more.](#)



[INSPIRE-5Gplus slice protection use case presented at EuCNC & 6G](#)

[Summit](#)

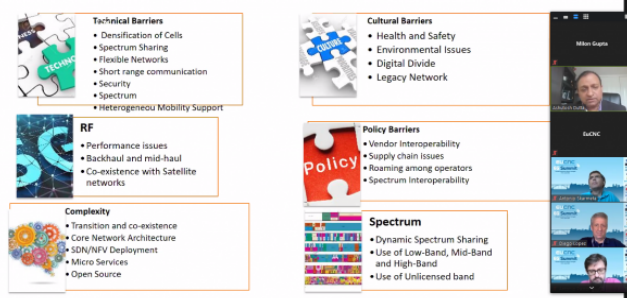
At the 2021 Joint EuCNC & 6G Summit, INSPIRE-5Gplus partners National Centre for Scientific Research Demokritos (NCSR) and Zurich University of Applied Sciences (ZHAW) made a virtual presentation on “AI-Enabled Slice Protection Exploiting Moving Target Defense in 6G Networks”. The INSPIRE-5Gplus paper describes a use case for the proactive and reactive defense of end-to-end network slices that relies on AI-based ...

[Read more.](#)

[Workshop on Automated and Intelligent Security at EuCNC 2021](#)

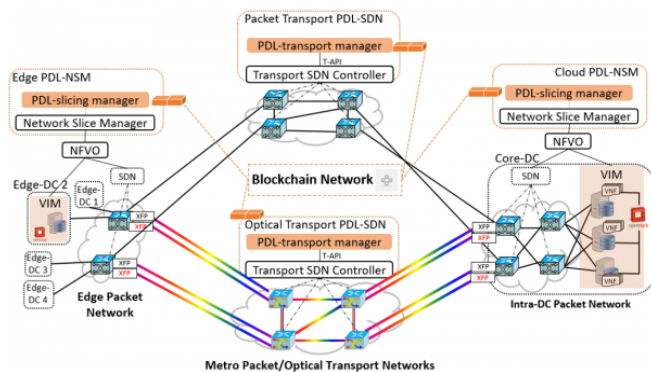
At the EuCNC & 6G Summit 2021, INSPIRE-5Gplus co-organised an online workshop dedicated to automated and intelligent security. The FAST workshop – ‘From 5G

Key Points for 5G Adoption and Usage



to 6G Automated and Intelligent Security' – was held on 8th June, the first day of the conference, and attracted considerable audience interest. The workshop addressed important cybersecurity risks by discussing innovative concepts for security management ...

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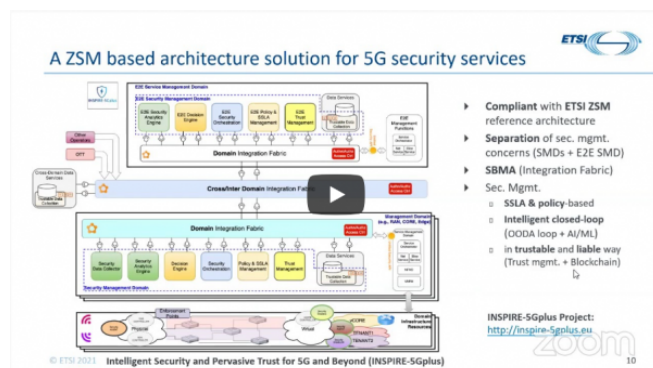


[INSPIRE-5Gplus Network Slicing Architecture to be presented at OFC 2021](#)

INSPIRE-5Gplus partner CTTC will present the updated INSPIRE-5Gplus results regarding the Blockchain-based architecture designed to manage End-to-End (E2E) Network Slices at OFC 2021. OFC 2021 will be held as a virtual event from 6th to 11th June. The invited paper by INSPIRE-5Gplus with the title “ End-to-End Network Slice Stitching using Blockchain-based Peer-to-Peer Network Slice Managers and Transport SDN Controllers” ...

[Read more.](#)

[INSPIRE-5Gplus High-Level Architecture presented at ETSI ZSM Forum](#)



The INSPIRE-5Gplus framework High-Level Architecture (HLA) was presented at the 6th ETSI ZSM Forum on 12th April 2021. The virtual event was part of LAYER123 Europe 2021: 360° Network Automation Congress. This year the congress focused on the commerciality of network automation and how other technologies can benefit from enhanced automation. At the ZSM Forum, the INSPIRE-5Gplus HLA was introduced ...

[Read more.](#)

INSPIRE-5Gplus

Intelligent Security and Pervasive Trust for 5G and Beyond
(INSPIRE-5Gplus)
A ZSM based architecture solution for 5G security services

Antonio Pastor, Diego R. Lopez, Jose Ordonez-Lucena
Telefonica I+D

ZSM#14e ONLINE , 11/01/2021

[INSPIRE-5Gplus presentation at ETSI ISG ZSM plenary meeting](#)

INSPIRE-5Gplus partner Telefonica I+D participated in the ETSI ISG ZSM (Zero touch network & Service Management) plenary meeting

ZSM#14-e on 11th January 2021. In the session, TID had the opportunity to share with the ZSM delegates the vision of the INSPIRE-5GPlus project, including objectives, architecture and use cases. The strong alignment of the INSPIRE-5GPlus system with ZSM architecture principles and ...

[Read more.](#)

