As 5G approaches a very high maturity level, testing and validation of the innovations achieved in 5G by integrators and verticals service providers has become of utmost importance.

5GASP shortens the idea-to-market process through the creation of a European Network App deployment, testing and certification ecosystem for SMEs and Start-ups.

5GASP objectives include:

- Provision of state-of-the-art testbeds where network applications for relevant verticals can be tested and validated in a cost-effective way.
- Automation of the process of testing and validation, lowering cost associated with testing and certification of Network Applications in telecommunication environment.

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Project Coordinator

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Budget

6.8 M

Period

Jan. 2021– Dec 2023

https://5gasp.eu

https://twitter.com/5gasp

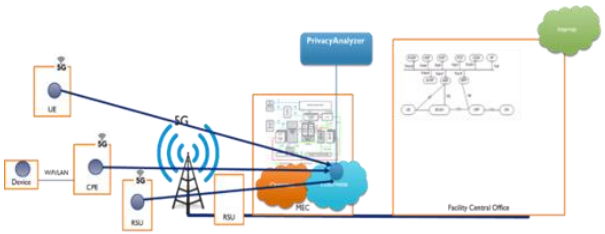
5GASP

5G Application & Services experimentation and certification Platform

5GASP Network Applications for the Public Protection and Disaster (PPDR) Use Case

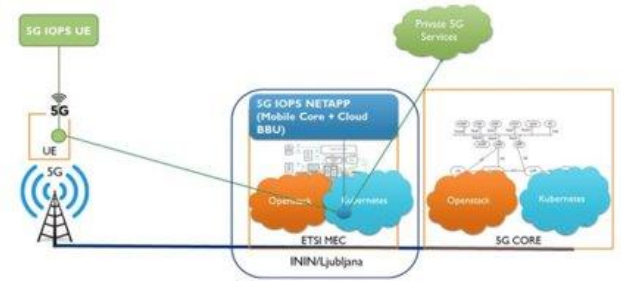
Network App #8: Privacy Analyzer

- Assists cross-vertical Network Applications by providing a generic privacy function integrated with NEF and a high-performance (Spark-based) solution for finding privacy vulnerabilities for Network Applications and/or mission critical 5G slices in privacy networks that require privacy analysis.



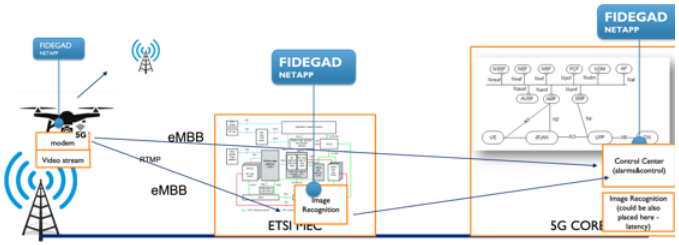
Network App#9 5G Isolated Operations (IOPS)

- Provides local mission-critical services to public safety users in the field when backhaul connectivity to the core network is disrupted.
- PPDR disasters, out-of-coverage emergencies, and infrastructure damage require such an operational mode.



Network App#10 FIDEGAD

- Enable FIre Detection and Ground Assistance using Drones(FIDGAD)
- Provides a cloud native application onboarded to a drone allowing teams on ground to see the drone's live images and detect fires.
- The drone client sends video input to an image recognition server that detects fire.



5GASP Network Applications for Generic Use Cases

Network App #11: Efficient MEC Handover

- Supports other compatible Network App(s) to improve their performance in the MEC environment.
- A Machine Learning based application, which consumes the network monitoring data to produce performance and network-related predictions. The current prototype consumes radio monitoring data to predict the probability of UE being handed over from its current radio access point to another within the next N seconds