



Demo Introduction





Al in 5G – Zero Touch Network in the Self Healing Context

Demo Table 1

A fully autonomic AI driven concept for the detection of malfunctions in NFV applications, with the help of semisupervised learning, to provide selfhealing capabilities.

> Point of Contact: Julian Ahrens & Mathias Strufe (DFKI GmbH)









Trust Node - Hardware accelerated Self Optimization Use Case

Demo Table 2

- Showing network adaptive H256 video optimization
- Making SDN fast again: FPGA technology by TrustNode[®]

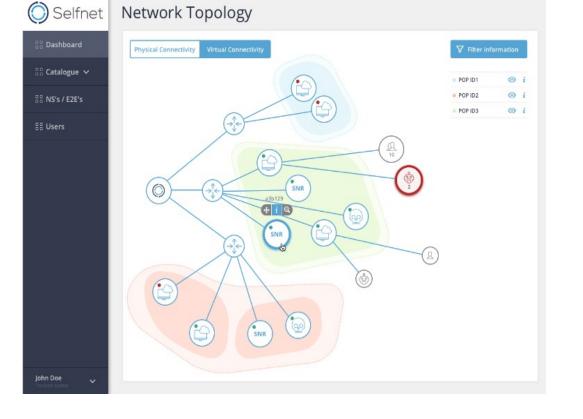
Point of Contact: Marian Ulbricht (InnoRoute) & Ricardo Marco-Alaez (UWS)





Intuitive and consistent Graphical User Interface that provides:

- Full overview over e2e services and network service composition
- Complete analysis over symptoms, alarms and performed actions



SELFNET GUI – Your Network status at a glance



Demo Table 3



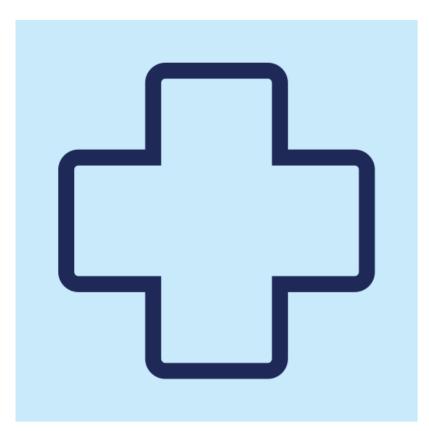


Self-Healing Use Case: Autonomous VNF fault mitigation

Demo Table 4

- **Dynamic** onboarding of NFV/SDN sensors
- Automatic configuration of monitoring capabilities
- QoS degradation root cause analysis
- Al-driven VNF profiling

Point of Contact: Pedro M. Neves & Rui F. Pedro (AlticeLabs)







SDN / NFV Application Management

Demo Table 5

Application based automation for enhanced sensing and actuation operations.

Enabling toolset for purpose specific applications that facilitate fine grained and **intent based autonomous management**.

Point of Contact: Giacomo Bernini (NextWorks) & Kostas Koutsopoulos (CSE)







Cybersecurity Techniques in the Self Protection Use Case

Demo Table 6

Detection (*Snort VNF*) and mitigation (*HoneyNet VNF*) of **botnets**, mirroring and diverting network flows (*FlowT SDN App*) to enable cyber security functions

Self-Protection Use Case contributes to ensure **more secure and resilient 5G network and services**, isolating malicious UEs intended to exploit cyber-attacks





Point of Contact: *Prof. Gregorio Martínez Pérez* (University of Murcia)





Enjoy the Demos & Lunch