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**SERICS**  
SECURITY AND RIGHTS IN THE CYBERSPACE



consorzio nazionale  
interuniversitario  
per le telecomunicazioni

# 5G AND CLOUD SECURITY AWARENESS DAYS

19-20 JUNE 2024 - ROME

SALA QUIRINALE - PIANO TERRA  
CENTRO CONGRESSI CAVOUR



## 19th June 2024 - 5G Awareness Day

### 8:45 | Registration

9:00 | Welcome – Giuseppe Bianchi

### 9:15 | 5G Security: Landscape and Models

| 5G Security and Risk landscape: overview – Marina Settembre

| Structuring the complexity: an ontological approach to analyze the cybersecurity of a 5G service – Nicolò Maunero

### 9:50 | 5G Security: Assessment and Assurance - Part 1

| Evaluation of Security Level of 5G Orchestration Environments – Alessandro Carrega

| Comprehensive Testing of 5G Core Network: ScasDK as a Baseline Tool for Security Assurance – Francesco Mancini

| Securing the Open RAN Infrastructure: Exploring Vulnerabilities in Kubernetes Deployments – Alessandro Brighente

### 11:05 | Coffee-break

### 11:30 | 5G Security: Assessment and Assurance - Part 2

| Configuration Assessment of real-world radio cells: the 5GMap tool – Andrea Paci

| Security Assessment of commercial VoWiFi services – Giuseppe Bianchi

### 12:15 | 5G Security: O-RAN

| The Open RAN Architecture Question and the Security Challenges of the Next Generation of Cellular Networks- Pietro Spadaccino

| Security measures and challenges in 5G O-RAN platforms – Walter Tiberti

### 13:05 | Lunch

### 14:00 | Selected 5G Security challenges and insights

| Talk: Post Quantum Cryptography and 5G: state of the art and challenges – Marco Baldi

| Talk: Physical Layer authentication: state of the art and challenges – Nicola Laurenti

| The industrial view - 5G Security: Challenges and Opportunities for Defence Companies – Davide Desirello, Andrea Terni

### 15:20 | Coffee-break

### 15:40 | Non-3GPP Technologies

| DeLoRaN: Decentralize LoRaWAN Network Server through blockchain – Pierluigi Locatelli

| Selective Jamming Analysis in LoRa Access Network – Floriano De Rango

### 16:30 | Discussion & Follow-up

### 17:30 | Conclusion

## 20th June 2024 - Cloud Security Awareness Day

### 9:00 | Registration

9:15 | Welcome - Alessandro Armando

### 9:30 | Security of Micro-services Applications

| Building Secure Cloud Applications: DevSecOps Strategies for Containers - Luca Verderame

| Sviluppo sicuro di Applicazioni a microservizi in Cloud: un Modello di ciclo di vita basato su Security Service Level Agreement - Massimiliano Rak

### 10:20 | Formal verification and Testing

| DBCChecker: Formally Verifying Security Properties of Containers Compositions - Marino Miculan

| ARTIC framework: a cloud-native solution for cybersecurity training and testing - Enrico Russo

### 11:15 | Coffee break

### 11:45 | Security of Cloud-to-edge and 5G virtualized core networks

| Zero-Trust Security in Cloud-to-Edge Environments - Domenico Siracusa

| Security assurance in 5G virtualized core networks: standardization status and challenges - Francesco Mancini

| Security aspects in Cloud-IoT integration - Giovanni Merlino

### 13:00 | Discussion and Conclusion

### 13:30 | Lunch

### 14:30 | SERICS Spoke 4 Project Meetings

| SecCo Project Meeting

| ARTIC Project Meeting

### 16:00 | End of project meetings and Tea break