

5G & Cloud Security Awareness Days

29 th October 2025 - Villa Palestro – Roma		
09:30	Registration	
09:45	Welcome	
Security of Containerized Ecosystems		
09:50	Design and implementation of a defense-in-depth strategy in containerized and orchestrated environments	Luca Verderame (UNIGE)
10:15	Usable and Performance-Adaptable End-to-End Protection of Communications in Cloud Native Applications	Roberto Carbone (FBK)
10:40	Model-based Secure development of Microservices Applications	Massimiliano Rak (UNINA)
11:05	Strobilus: A domain language for expressing stateful policies	Massimiliano Baldo (UNIUD)
11:30	Coffee-break	
Virtualized Environments for Cybersecurity		
11:50	(In)Security of the Airborne Collision Avoidance System	Enrico Russo (UNIGE)
12:15	Containerized and scalable digital Twin for Maritime Cybersecurity Using Open-Source TestBed Integration	Giuseppe Laurenza (Fincantieri)
12:40	Physics-aware targeted attacks against maritime industrial control systems	Francesco Lupia (Unical)
13:05	A framework for exploiting OT testing capabilities of cyber ranges	Samuele Bertelli (Leonardo)
13:30	Lunch	
Virtualized Environments for Cybersecurity		
14:20	A Comparative Study of ICS Honeypot Deployments	Denis Donadel (Univr)
14:45	Vessel Anomaly Detection Investigator - OT data	Roberta D'Amico (MSC)
15:10	POLARS: Piattaforma open-source ad elevato livello di sicurezza per l'automazione di attacchi e reportistica di scenari di rischio	Marzio Di Feo (Secure Network)
15:35	(TBD) IT Alert	Giorgia Sirigu (CINI)
16:00	Coffee-break	
Discussion-Panel		
16:30	Cloud and 5G Frontiers: Academic Challenges and Real-World Opportunities	Panel
17:30	Conclusion	



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Start-end	Session	Speaker
	Warm-Up	
09:00	Registration	
09:15	Welcome	Domenico Garlisi, Marina Settembre, Alex Carrega
	Wireless Security: Assesment, Detection and Mitigation Strategy	
	Assessment	
09:30	5G Security Assurance Challenges: Bridging SCAS testing and Enisa 5G Security Control Matrix	Marina Settembre (FUB)
09:45	Packet Sampling to achieve High-Speed Intrusion Detection	Giacomo Verticale (POLIMI)
10:00	Enhancing Routing Security through Internet Exchange Points	Stefano Servillo (UNIROMA1)
	Q&A	
	Network	
10:30	Performance Analysis of a Sidecar-Based Security Approach in 5G Networks	Alex Carrega (UNIGE - CNIT)
10:45	O-RAN è la tecnologia emergente di riferimento in ambito MEC 5G	Walter Tiberti (UNIVAQ)
11:00	Threat Diffusion Dynamics in Network Slicing Architectures	Vincenzo Matta (UNISA)
	Q&A	
11:15	Coffee-break	
	Selected 5G Security Challenges and Insights (External Talks)	
11:45	Knowledge formalization to address Cybersecurity risks in 5G services (Spoke 7 - Eraclito)	Mario Lezoche (University of Lorraine, visiting professor at FUB)
12:15	Advanced and post-quantum cryptography for data sovereignty in the cloud	Marco Baldi (UNIVPM)
	Attacks and Experimental Evaluation - Demo presentation	
12:45	Undercover Threats in 5G: Stealth Attacks on MIMO, DCI, and Synchronization	
12:50	Position security in 5g and beyond: modeling and detecting Physical layer Threats	
12:55	5G Guardian: API Exposure Brute-Force Buster	
13:00	Lunch	
	Demos	
	5G Guardian: API Exposure Brute-Force Buster	Alex Carrega, Gorkem Eser (UNIGE - CNIT)
14:00	Stealth Downgrade Attacks on 5G MIMO	Domenico Garlisi (UNIPA), Fabrizio Giuliano (UNIPA)
	Position security in 5g and beyond: modeling and detecting Physical layer Threats	Stefania Bartoletti (UNIRM2 - CNIT)
	Physical layer	
14:45	Securing the Air: Physical-Layer Obfuscation Against Unauthorized Sensing	Giovanni Perin (UNIBS)
15:00	Hybrid Channel- and Coding-Based Challenge-Response Physical-Layer Authentication	Stefano Tomasin (UNIPD)
15:15	Bridging IoT and 5G: Toward Intelligent and Secure Connected Ecosystems	Graziano Rizzo (UNICAL)
15:30	Coffee-break	
	Services	
15:45	Standard-Compliant Lawful Interception and Traffic Monitoring Framework for Next-Generation Mobile Networks	Ingrid Huso (POLIBA)
16:00	Security of Mission Critical services and security test cases on the MCX testbed	Andrea Terni (Leonardo SPA)
16:15	The E-SIM provisioning landscape	Matteo Fanfarillo (CNIT)
16:30	Conclusion	