



WORKSHOP ON

# “Essentials Of Telecom Security Testing- A Tools & Testers Perspective- Part 2”

17-Sep-2024 (Tuesday)

The Workshop aims to disseminate information about various tools and testers used in Security Testing with thrust to Capacity Building in Telecom Security Domain.

TIME SLOT	TOPIC	SPEAKER
09.30-10.30	Registration	
10.30-10.35	Welcome Address	Sh. Ashish Redhu, ADET (SC & HQ), NCCS
10.35-10.45	Inauguration of Workshop by Member(S), DCC	Shri Rohit Sharma, Member(S), DCC, DoT
10.45-11.15	Password Cracking Tools	Sh. Sadhasivam, IITM PTF.
11.15-12.00	Malware Detection	Prof. Sandeep Shukla, IITK
12.00-12.30	Web application Security Testing	Sh. Pravesh Sharma, RA, NCCS
12.30-13.00	External Adjuncts: NTP, Radius and Syslog	Sh. Nagarajan Senguttuvan, Vaan Megam Networks
<b>Lunch Break</b>		
14.00-14.45	Traffic Generator/DDoS tool (network and application level)	Sh. Manas Kumar Panda ADG (SAS -III) and Sh. Hari Rama Murthy, RA NCCS
14.45-15.15	Wi-Fi Network Analysis Tool	Mr. Sanjay K Sharma, M/s GRL
15.15-17.00	Network and Application Level Protocol Fuzzing -Theory and demo/Handson	Sh. Vishwas Sharma M/s Synopsis, M/s Synopsis
17.00-17.45	Panel Discussion Telecom Security Testing - Challenges and Way Forward Moderator: Sh. Atul Kumar Kareliya DDG (SLR) Panelists: Sh. Ramakrishna Majety Director (SC&HQ), NCCS Sh. Anurodh Kumar Director (SLR), NCCS Sh. Kalyan Verma M/s GRL Sh. Muthukumar IITM-PTF Sh. Jagdeep Walia M/s Ericsson Ms. Lekshmi Nair M/s Synopsys	
17.45-17.55	Wrap up	
17.55-18.00	Vote of thanks - Sh. R Babu Srinivasa Kumar, DDG(SC&HQ)	

**Date:** 17-Sep-2024

**Timings:** 09:30 Hrs to 18:00 Hrs

Mode: Hybrid

Online: <https://cdotmeet.cdote.in/vmeet/ash-gfp-dzx-ohf>

Offline\*: Conference Hall, NCCS Bengaluru

To register: <https://forms.gle/CzWYvRZDXpxEsN4HA> or SCAN QR CODE:

REGISTER



\* Limited participation in Offline Mode. Confirmation shall be sent by NCCS after registration for offline participation. For further coordination and queries contact: Sh. Ashish Redhu, ADET (SC & HQ), Email: [adethq.nccs-dot@gov.in](mailto:adethq.nccs-dot@gov.in)

# PROFILE OF THE SPEAKERS

## 1. Sh. Rohit Sharma

### Member (Services), Digital Communications Commission



Shri Rohit Sharma, an ITS officer from the 1986 batch, joined the Indian Telecom Service in 1989. He has a broad background in telecom disciplines, including 4G planning, OFC routes, network maintenance, and execution. Notably, he managed 150 KM OFC work on the Leh-Thoise route and the Manali-Leh strategic route. His education includes a Bachelor's in Electronics and Communications, PG Diplomas in Management and Financial Management, and an MBA in Marketing. Currently, he serves as Member (Services) at the Digital Communications Commission, Department of Telecommunications, New Delhi, focusing on cybersecurity, capacity building, AI, and ITS cadre administration.

## 2. Sh. Sadhasivasubramanian H IIT-M Pravartak

Sadhasivasubramanian H is a seasoned enterprise networking product architect with a focus on secure lifecycle software development. His expertise in system architecture and diverse testing methodologies is currently directed towards advancing product security and comprehensive vulnerability management.



## 3. Prof. Sandeep K Shukla

### IEEE fellow, and an ACM Distinguished Scientist



He is currently a professor of Computer Science and Engineering department at IIT Kanpur which he headed during 2017-2020. He was also the Prabhu Goel Chair in Computer Science between 2016 and 2019 at IIT Kanpur. He was awarded the Presidential Early Career Award in Science and Engineering (PECASE) in 2004, The Bessel Award by Humboldt Foundation in 2009, a Distinguished Alumnus Award by SUNY Albany in 2007, a Ramanujan Fellowship in 2015.

## 4. Sh. Pravesh Sharma Research Associate at NCCS.

He has contributed to ITSAR testing for telecom networks and possesses hands-on expertise in security tools such as Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST). He also specializes in web server security testing and web application development.



## 5. Nagarajan S, A Telecom and Networking expert



**Protocol Mastery:** Throughout roles at TATA Infotech, HCL – Cisco, Synergy Fiber ISP, and AT&T, he has developed deep expertise in protocols like PPPoE, BGP, MPLS, L3VPN & L2VPN, FHRP, EtherChannel, SVIs, and advanced security features. **Firewall Transition Leader:** At AT&T, he successfully led firewall migration projects, seamlessly transitioning to Palo Alto firewalls, demonstrating a strong capability in managing complex architectural changes.

## 6. Sh. Manas Kumar Panda ADG (SAS-IV), NCCS

Manas Kumar Panda, Assistant Director General at NCCS, contributes to ITSAR preparation for UICC, mobile devices, and satellite equipment. He conducts security testing for 4G equipment, routers, and telecom data centre audits. Actively engaged in standardization through participation in SDOs like 3GPP, ITU.



## 7. Sh. Hari Ramamoorthy Research Associate at NCCS



A diverse background in implementation of low-latency networks (TSN/DetNet) and hybrid LiFi/WiFi networks. He has contributed to ITSAR testing for telecom networks and possesses hands-on expertise in security tools such as Static Application Security Testing (SAST) and Dynamic Application Security Testing (DAST).

## 8. Sanjay K Sharma Associate Director – Cyber Security Services, GRL Services India

With over 20 years of experience in Information security, Governance, Risk management, and compliance across industries like Banking, Network Telecom, and BPOs. He holds multiple certifications, including **CISA, CISM, CEH, CPISI, MCSE, and CCNA**, and has expertise in implementing security controls, cloud security, conducting risk assessments, and ensuring compliance with standards like PCI-DSS, HIPAA, NIST, and ISO27001.



# PROFILE OF THE SPEAKERS

## 9. Sh. Vishwas Sharma Senior Sales Engineer



Vishwas Sharma is currently working with Black Duck (earlier part of Synopsys) as senior sales engineer. He holds a BE in Electronics and Telecom engineering and started his career by working at Indian Institute of Science as Project Associate where he worked on projects in Computational Electromagnetics, Digital Library, and Information security and published a few research papers. He has been working in Application Security since year 2011 after he joined Codenomicon which was acquired by Synopsys in the year 2015

## 10. Sh. Aul Kumar Kareliya, Deputy Director General (SLR), NCCS

Shri Aul Kumar Kareliya, an Indian Telecom Service (ITS) officer of 1994 batch, has served BSNL & DOT for 28 years in various capacities in variety of roles such as new technology switching installation, Basic Telecom Services (landline, broadband, leased circuit) operation and maintenance & GSM Network operation and maintenance.. Currently serving @ National Centre for Communication Security (NCCS) and is responsible for Designation of Telecom Security Testing Laboratories (TSTLs) and development of telecom security testing eco-system in India.



## 11. Rama Krishna Majety ITS Director (SC & HQ), NCCS



Officer of ITS 2000 batch and held various positions in the Dept of Telecom from cracking Grey Market Telecom Networks to defining Security Audit Test Clauses -- MBSS - for networks of Telecom Service Providers'. He has experience of handling a national level Telecom Analytics project for Dept of Telecom.

## 12. Sh. Anurodh Kumar Director (SLR), NCCS

An Indian Telecom Service (ITS) officer of the 2011 batch, has served in various capacities within the Kolkata Licensed Service Area (LSA) under the Department of Telecommunications (DoT), where he gained extensive experience in telecom regulation and oversight. Currently serving at the National Centre for Communication Security (NCCS), he plays a key role in the Designation of Telecom Security Testing Laboratories (TSTLs), contributing to enhancing telecom security frameworks in India.



## 13. G. Kalyan Verma

### Vice President of Market Access Services, Global and General Manager, GRL Services India.

Having 28 years of in Testing Inspection and Certification Services. An expert in various fields, including safety, electromagnetic compatibility, and wireless, he also serves on a number of national and international forums and working groups dedicated to developing and implementing conformity assessment services in the areas of international regulations, market access, cybersecurity, and various IoT alliances.



## 14. Muthu Kumar S.H

### Founder of Vaan Megam Networks and Megam Solutions.

Muthu Kumar S.H. is a seasoned professional with over two decades of experience in Networking and Telecommunication technologies. Heading the networking division of IITM Pravartak, he is building a state-of-the-art COMNET testing lab which focus on 5G Core, 5G RAN, Open RAN functional and security testing. He works closely with the Telecom Centre of Excellence to set up a 6G and classic quantum computing CoE in IITM Pravartak.



## 15. Sh. Jagdeep Walia

### General Manager and Security Consulting Lead at Ericsson

A world leader in providing Information and Communication Technology (ICT) to telecom service providers. He currently oversees network security engagements in the Market Area South East Asia Oceania India. He is an experienced telecom professional and joined Ericsson in 2003. Jagdeep has over 29 yrs of telecom industry experience in various roles & capacities stretching cross Consulting, Business Development, Presales and NW Planning, having worked in both India and abroad.



## 16. Lekshmi Nair

### Cyber Security Professional, M/s Synopsys

Lekshmi is a seasoned Cyber Security professional with over 22 years of experience Extensive experience in security transformation, Strategy, Risk Management, end to end pre-sales and solution design as Consultant, Program/Delivery Manager, Security strategy advisor, Delivery Executive, Architect and CISO. Lekshmi has avid consulting experience with global and domestic customers in Energy, Banking and Chemical and Petroleum segments.

