

SOCIETY FOR ELECTRONIC TRANSACTIONS AND SECURITY [SETS] (A Government of India Initiative)

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Strategy and Synergy for Security

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Message

The latest trends in technologies such as IOT, Big Data, Cloud and Artificial Intelligence has enhanced the efficiency and productivity of various sectors. However this increased use of digital technology has also led to the growing cyber security concerns at the National, Enterprise and Individual levels. This has created an awareness amongst all levels that "Cyber Security for all" is the need of the hour.

In the challenging times of COVID 19, this digital transformation in the sectors of Governance, Commerce, Finance, Banking, Education, Health etc. has become handy to effectively manage and materialize operations to the extent possible. The work from home concept, which was partly practiced in IT sector has become a normal today, in many of the enterprises, business houses, industry, government, research institutions, academics etc. This has resulted in an exponential growth of the use of technology for video conferencing, on-line education, tele-medicine etc. The remote access of the servers by different client devices has made VPN technologies as the key secure channel of communication. SETS teams are also engaged in understanding the growing cyber-attacks during the COVID 19 situation.

SETS has identified its Research activities in the key verticals namely, Cryptology; Hardware Security; and Network Security. The scientists at SETS are presently engaged in the niche areas of research such as Post Quantum Cryptography; Quantum Key Distribution; Security and performance analysis of threshold implementation schemes of Side Channel Analysis; Physically Unclonable Functions, Hardware Trojan Detection, Integrated threat management appliance, Hardware security module, VPN towards the information security needs of the Nation.

SETS has proved its efforts to bring in coherent synergy to work with industry and academic institutions such as ECIL, BEL, SCL, C-DAC, IIT-Bombay, IIT Delhi etc. The teams have engaged in developing field implementable prototype solutions/ products to address the immediate needs of the cyber security requirements of end user organizations. It is now embracing the new trends such as 5G security, Artificial Intelligence in Cyber Security (AI in CS) etc.

The efforts of SETS as part of its "Walk-in Cyber Security Education & Research (WiCSEER) lab", continue to demonstrate indigenous R&D Solutions developed to the end users. SETS would continue to play the key role in providing guidance, consultancy in securing the systems and networks. SETS initiated offering webinars in its areas of expertise such as PUFs, Cyber security trends, VPNs, hardware security etc. during the COVID 19 times.

SETS lab, with the honour of being the only full-fledged cyber security lab, continue to learn and grow in its capabilities in the area of cyber security, specifically in the area of "Hardware Security, Cryptology and Cyber security", and be a force to reckon with, in the cyber security domain.

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