



Annual Report 2016-17

About DSCI

Data Security Council of India (DSCI) is a premier industry body on cyber security and data protection in India, set-up by NASSCOM®, committed to making the cyberspace safe, secure and trusted through its various initiatives and programs. DSCI is engaged with the Indian IT-BPM industry, their clients worldwide, BFSI, Telecom, e-commerce, energy and other domestic sectors, industry associations, data protection authorities, think tanks and government agencies in different countries. It engages governments on public policy, conducts industry wide surveys and publishes reports, organizes cyber security & data protection awareness conferences, workshops, projects, interactions and other necessary initiatives for outreach and public advocacy.

DSCI is focused on capacity building of Law Enforcement Agencies for combating cybercrimes in the country and towards this; it operates several cyber labs across India to train police officers, prosecutors and judicial officers in cyber forensics.

Public Advocacy, Thought Leadership, Awareness & Outreach and Capacity Building are the key areas through which DSCI continues to promote and enhance trust in India as a secure global sourcing hub, and promotes cyber security & data protection in the country.

Vision

To be the premier industry body for making cyberspace safe, secure and trusted.

Mission

To develop capabilities, capacities and norms, in collaboration with all the stakeholders including the government, required to advance towards a safer, more secure and trusted cyberspace for enhancing trade and commerce by increasing global data flows and promoting innovation; strengthening national security, protecting individuals' rights in cyber space and addressing such global issues while safeguarding national and industry interests.

Objectives

- Engage with governments, regulators, industry associations and think tanks on policy matters through Public Advocacy
- Establish Thought Leadership through development of Best Practices, Standards and Frameworks and publication of Studies, Surveys and Papers
- Build Capacity in Security, Privacy and Cyber Forensics through training and certification of individuals and professionals in Cybercrime Investigations through training of law enforcement agencies and judiciary
- Engage with stakeholders through various Outreach initiatives including events, awards, chapters, consultations and membership programs
- Develop and maintain an Assurance ecosystem for validation of privacy and security practices implemented by organizations
- Increase India's share in the global security product and services market through Global Trade Development initiatives
- Aim at developing an Alternate Dispute Resolution system in data protection

Contents

Chairman Message	6		
		CEO Message	7
Board of Directors	8		
		DSCI Stakeholders	9
Programs & Initiatives	10		
		Way Forward	36
DSCI in News	37		



Message from the Chairman

Our contribution to building a strong cybersecurity landscape continued to grow. In 2016-17, DSCI's priorities in cyber security resulted in numerous initiatives engaging the industry and government. The year also witnessed a key development regarding its leadership. We were glad to have Rama Vedashree as CEO, to carry forward DSCI's vision and lead it in a strategic direction for growth of the organisation.

During the year, DSCI significantly advanced in various areas notably in ushering policy advocacy and to help state governments in drafting comprehensive cybersecurity policies and developing the Smart City Cyber Security Framework.

We also invested in a year-long effort to develop a roadmap for India to emerge as a global hub in cybersecurity product and services space. Enhancing thought leadership by studying and contributing to the future technological developments; capacity building of law enforcement officers in cybercrime investigation and cyber forensics, and engaging small and

medium enterprises to embrace safe digital behaviour through a nation-wide program were some of our key priorities this year.

Advising public and private organisations from diverse sectors to ensure cyber security and privacy best practices, DSCI served its members with insights and guidance to tackle myriad of cybersecurity issues. From serving as a focal point in India for all matters in the domains of Privacy, Internet Governance, cybercrime, Cyber Forensics, Cloud Security among others, DSCI continued to play a pivotal role in development of the cyber community by organising engaging workshops and seminars around the year.

In a bid to address the cyber security skills shortage in India, DSCI has been developing long term roadmap for cyber security skills development. It had furthered the objective of creating skilled and certified cyber security professionals and in association with SSC NASSCOM, launched ten qualification packs and courseware.

The year, 2016-17 saw the strengthening of our platforms and deepening of engagement with our corporate members and other key stakeholders. The focus for 2017-18 is to ensure that our programs and initiatives add value to our members and stakeholders.

On behalf of the entire Board of Directors, I thank DSCI stakeholders, for the confidence reposed in us, which helps fuel the momentum towards continuous strengthening of cyber security in the country.

G K Pillai
Chairman, DSCI

Message from the CEO



I consider it my privilege to be given the opportunity to lead DSCI. Last year was one of the momentous years for the entire industry and ecosystem. To carry out the vision of creating a safe and secure cyberspace, DSCI collaboratively worked with the key stakeholders including industry and government. One of our key priorities during the year was to expand our engagement with member organisations. Our approach to engage with various sectors helped us connect with user-organisations to understand the intrinsic issues and challenges faced by them. A positive sign in this direction has been an increased level of feedback and collaboration for our initiatives throughout the year.

A highlight of our policy advocacy work has been to engage with pioneering states Telangana and Andhra Pradesh to help draft their cyber security policy. DSCI also signed an MoU with Telangana government to advise on developing strategies for promoting the state as a destination for cyber security.

Taking forward the Cyber Security Task Force vision of growing Cyber Security Industry to USD 35 Billion, DSCI developed and released 'Growing Cyber Security Industry Roadmap for India', which serves a growth blueprint for Government and Industry. DSCI led a delegation of 40 leaders from Indian industry, including Product & Services Companies, user enterprises, government of India and Telangana to Hague Security Delta (Netherlands) and Malvern Cyber Security Cluster (UK). We were fortunate to have Dr. Gulshan Rai, National Cyber Security Coordinator, Government of India, to lead the delegation along with Mr. Rajender S Pawar, Chairman and Co-Founder, NIIT Technologies & Chair, CSTF. The delegation visit offered an opportunity to interact with senior leaders from government, industry, academia in London and Hague and help us build India's strategy for Cyber Security clusters.

Catalysing the growth of the privacy profession in the country is central to our objective in capacity building. Launched in 2014, the DSCI Certified Privacy Professional (DCPP ©) certification program was widely endorsed and appreciated by the industry. DCPP, DCPLA continues to gain traction with Global Consulting Firms, Tech Industry, User Enterprises availing the training and certification. During the year, DSCI demonstrated thought leadership in engaging both with Government and Industry around EU-GDPR, and matters pertaining to Data Protection.

Last year, DSCI launched a two-pronged internet safety awareness campaign focussing on small and medium businesses (SMBs). Apart from series of seminars in SMB hubs, we also launched an e-learning 'cyberaware.in' portal. Strengthening our Skills Development initiative, DSCI in partnership with NASSCOM SSC, launched qualification packs (QPs) and curriculum which are now being adopted by academia and industry. Simultaneously, second edition of cybercrimes investigation manual was released for law enforcement.

The year was remarkable for our outreach activities as well. The Annual Information Security Summit (AISS) in New Delhi and the Best Practices Meet (BPM) in Bengaluru served as definitive platforms for cyber security and privacy leaders in the country, both on policy and contemporary and future security technologies. Promoting excellence in security and privacy practices, the DSCI Excellence Awards 2016, recognized organisations and individuals in the Corporate, Law Enforcement and Cyber Security Product and Services categories.

The year also witnessed DSCI launching its first global chapter in Singapore. The launch event was graced by then High Commission of India to Singapore Mrs. Vijay Thakur Singh.

Our work ensured continuous engagement with the government including Ministry of Electronics and Information Technology (MeitY), National Cyber Security Coordinator, Department of Commerce (DoC), Department of Telecom, RBI, CERT, on key policy issues including trans-border dataflow, privacy, Internet governance, Internet of Things, cloud computing and others.

As we embark upon a challenging yet exciting journey towards the ambitious goal of building a world-class cyber security industry, we strive to collaborate with existing and emerging stakeholders to comprehensively chart out our future course of programs and initiatives. Thus, your sustained support to DSCI will be paramount to creating value and impact for our members and stakeholders. We look forward to you joining us in this journey.

Rama Vedashree
CEO, (DSCI)

Board of Directors

DSCI Board has seven Directors, of which three are Independent Directors. During the year 2016-17, the Board continued to have Gopal Pillai as the Chairman of Board of Directors.

C. P. Gurnani, joined the Board in place of B.V.R. Mohan Reddy, Chairman, NASSCOM and Ajay Kumar, Additional Secretary, Ministry of Electronics and Information Technology, joined as Nominee Director from government in place of B. J. Srinath.

The present composition of the Board is as below:

- Two Directors representing NASSCOM – the present Chairman and President
- One Government nominated Director
- Four Directors, three being independent including the Chairman, DSCI

The Board of Directors, as on 31 March 2017, is as below:



G. K. Pillai
Chairman, DSCI



C.P. Gurnani
Chairman, NASSCOM



R. Chandrashekar
President, NASSCOM



N. Balakrishnan
Independent Director



Raman Roy
Director



Ajay Kumar
Government
nominated Director &
Additional Secretary,
MeitY



A.S. Ramasastry
Independent Director

Our Stakeholders

DSCI understands stakeholders’ priorities and encompasses them in its varied initiatives, programs and outreach activities. Creating stakeholder value is a key priority area for us.

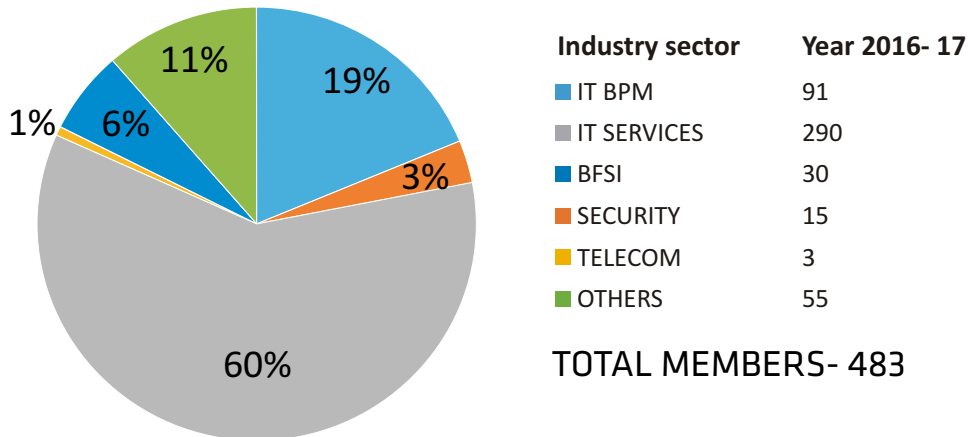
Our programs and strategic activities are guided by the Board of Directors. To better reflect the ever-changing cyberspace, we closely engage security and privacy experts from the industry and government, consult member companies, and chapter members set up for cyber security, privacy, global data flows, encryption policy, and cyber forensics. This consultative process helps us meet the aspirations of our stakeholders and help in the industry development.

Our Corporate Members and Chapters

In 2016-2017, we continued to work in close collaboration with the industry to address the key challenges faced by them in building and strengthening their cyber security infrastructure and establishing best practices and frameworks through meetings, workshops, and expert professional guidance.

Our collaboration extended across organizations, to include new start-ups, small to medium enterprises, and large corporates across industry sectors.

Corporate Members



Programs & Initiatives

Policy Advocacy

DSCI takes a proactive role in policy enablement on current and future technology initiations and its advocacy with industry stakeholders and government.

DSCI undertakes studies and surveys to develop reports on various facets of Data Security, Privacy, Cyber Security and Internet governance in India. These reports highlight the current state and concerns of cyber security, data security and privacy

Thought Leadership

Outreach Programs

DSCI through its different programs, connects with stakeholders to draw focus on data security, privacy and cyber security concerns, and DSCI approach on data protection

DSCI is actively involved in developing and imparting training, and capacity building for various government and corporate entities

Capacity Building

Striving for India's Eminence in Cyber Security

Our work in cyber security has led to substantive and sustained engagement with the Government to strengthen the cyber security posture in India and promote the country's interests at various international forums, through engagements with key stakeholders. With the industry, DSCI works on cross-industry information sharing, incident management, awareness, and capacity building, through its various initiatives and programs. A growing focus area has been the creation of an ecosystem to promote the growth of Indian security product and services startup companies.

DSCI-NASSCOM Cyber Security Task Force (CSTF)

Hon'ble Prime Minister (PM) of India Shri Narendra Modi, at NASSCOM's Silver Jubilee celebrations, urged the Indian IT Industry, to focus on addressing the global challenges of cyber security. On PM's exhortation, NASSCOM & DSCI constituted the Cyber Security Task Force (CSTF) under the chairmanship of Rajendra S. Pawar, to develop a roadmap for India becoming a global hub in cyber security. CSTF, with eminent leaders from the government, industry and academia, charted out a vision 2025 to grow the Indian cyber security products and services industry to US\$ 35 billion, create one million cyber security jobs and 1000 cyber security startups by 2025. Recommendations were delineated across four pillars, to realize this vision, namely Industry Development, Technology Development, Skills and Policy.

During the year, NASSCOM-DSCI commissioned a study on building 'Industry Roadmap for Cyber Security' for next 10 years in association with PriceWaterhouseCoopers (PwC). The report 'Growing Cyber Security Industry-Roadmap for India' was launched at Annual Information Security Summit 2017. It provides a roadmap for the industry to achieve this goal and also a set of recommendations to the government to enable the necessary ecosystem.

This report is in two parts:

1. **Roadmap for India:** The focus of this report is on mapping the global security landscape, exploring the opportunities worldwide, across geographies and various verticals. It showcases global market analysis from both the demand and supply side. As Indian IT Industry embarks on this growth roadmap, the report offers several learnings and best practices from key cyber security clusters across the world. The report endeavours to identify opportunities for India in both products and services, and pivotal role for innovation by start-ups.
2. **Perspectives for Government:** The report presents perspectives for the Government of India and State Governments as they embark on policies for making India a preferred global destination for cyber security. It also focuses on what measures can be taken by all key stakeholders – Government, Industry and academia for India, to become a global hub in cyber security. Based on the analysis and the opportunities identified for India, initiatives are grouped across five key pillars: Clusters, Technology Creation, Demand Generation, Capacity Building and Policy & Regulations.



Indian Cyber Security Delegation to the Netherlands and the UK

NASSCOM-DSCI took the first Indian Cyber Security Delegation to Hague Security Delta (Netherlands) and Malvern Cyber Security Cluster (UK). Led by Gulshan Rai, National Cyber Security Coordinator, Government of India, the delegation comprised of 40 delegates representing the Indian industry, including large and small user organisations, government.

The delegation was mobilized in tune with the CSTF objective of studying and adopting the cluster approach in stimulating the cyber security ecosystem in key locations. The CSTF had identified development of industry clusters as a viable model for promoting cyber security ecosystem in the country, especially the vision of achieving a market size of USD 35 billion for Indian players by 2025, while simultaneously creating one million jobs, and creating at least 1000 successful start-ups from India.

The five-day agenda explored the cluster ecosystems in greater detail, internalizing the lessons, forging alliances and showcasing Indian capabilities in cyber security and India's industry growth agenda. The delegation held a series of meetings and discussions with Government, Industry and Academia and key cyber security stakeholders and dignitaries of the two geographies, and discussed ways and means to increase cooperation between the two sides.

Key learnings

- A comprehensive study of the cluster ecosystems, their genesis, business models, enablers and key differentiators was undertaken.
- The interactions provided a structured overview of the cyber security strategy and interrelationship between the governments, industry and academia within the two geographies.
- Academia-Industry Partnership, cutting-edge security solutions and research capabilities leading to technical entrepreneurship were explored. This would pave way for exchange programs between the academia, think tanks and research establishments on both sides.
- Investment opportunities for businesses were explored via dedicated and focussed matchmaking sessions, and networking opportunities. This was the critical part of the Business-to-Business collaboration objective.
- Noteworthy role of academia in providing an impetus to the success of the clusters was a key highlight. Their role in extensive research and industry collaboration, incubation capacities and in establishing 'Centers of Excellence' on security was appraised.



Cyber Security Policy for State

DSCI worked with Andhra Pradesh and Telangana Government for the development of state's cyber security policy.

- **Andhra Pradesh Government**

DSCI worked with Andhra Pradesh (AP) Government to develop the state's Cyber Security Policy after a round of consultation with government and industry in August. AP Government focused on implementing cyber security policy in an effort to build a secure operating cyber space, protect the Critical Information Infrastructure (CII) while providing impetus to cyber security industry development and focusing on education and awareness.

- **Telangana Government**

DSCI was actively involved in developing the Cyber Security Policy for the Telangana Government. A MoU was signed and DSCI, as knowledge partner with ITE&C Department, Government of Telangana, collaborated on the following:

- o Advise on developing of strategies for promoting the state as a destination for Cyber Security investment
- o Drive advocacy and help develop implementation roadmaps for state Cyber Security Policy in public and private sector including Small and Medium Businesses
- o Develop Cyber Security industry growth charter and help incubate and grow Cyber Security cluster in Hyderabad region
- o Support to develop Cyber Security Index to help measure Security preparedness of State
- o Work towards Cyber Security skills development through State Education Boards & Universities with special focus on faculty development. DSCI-NASSCOM SSC to partner Universities to adopt Cyber Security skills program.



Engagement with JWG for PPP on Cyber Security

In continuation of the engagement with Joint Working Group for Public Private Partnership on Cyber Security, DSCI apprised the group on Internet Governance ecosystem and DSCI-ICERT workshop on ICANN-57; progress of NASSCOM-SSC and DSCI Cyber Security skills building initiative; and highlights of Singapore Cyber Security Strategy.

Technology Foresight Study for the Financial Sector

In order to successfully predict future technological development in the financial sector, Technology Information, Forecasting and Assessment Council (TIFAC), Department of Technology, along with C-DAC and DSCI, have jointly been working on the 'Technology Foresight Study on Information and Communication Security in the Financial Sector'. The study aims to highlight future scenarios, allied cyber security threats and vulnerabilities, plan solutions and enable policy environment. With consultation from industry, academia and government, the study focusses on in-depth analysis in the areas of Cloud and Virtualisation, Industrial Control including SCADA Security, Big Data Security, IoT Security and financial systems Security. Recommendations in each of the above areas are also provided to bridge gap between the current security landscape vis-a-vis forecasted developments.

Clarification on Reporting of Cyber Security Incidents to CERT-In/ICERT

DSCI issued a communication to its members on clarification on reporting of cyber security incidents to Computer Emergency Response Team of India (CERT-In or ICERT). CERT-In communication reiterated the notice of 2013, and rules issued under section 70B of IT Amendment Act 2008, issued on January 16, 2014 focusing on entities such as 'Service Providers', 'Intermediaries', 'Data Centers' and 'Body Corporates', and qualifying cyber security incidents to be reported by them to CERT-In.

DSCI, in its communication to the members, seeking clarification on the role and obligation for service providers serving government departments and agencies under contractual agreements and otherwise stated that under the standard terms of contract signed between a government department and service providers for services, it is the responsibility of the primary owners to formally notify on the security incidents to government agencies and departments, and not the service providers who provide services under contractual agreement. CERT-In has acknowledged the concern (for services providers under contractual agreement) and replied that the service providers are not required to notify the qualified incidents directly to CERT-In.

Stakeholder meeting on Security Testing for Equipment used in Telecom Networks

In collaboration with Department of Telecom (DoT), Standardisation Testing and Quality Certification (STQC), Cellular Operators Association of India (COAI), DSCI hosted a workshop on 'Testing for Equipment Used' in Telecom Networks. Government agencies, DoT and STQC presented their roadmap on security testing requirements and testing infrastructure capabilities in the country. Various industry players shared their concerns and requested the government to come out with a practical policy direction that required telecom network elements to be security tested in India.

Industry consultation on Encryption and Data Retention Policy

DSCI & NASSCOM hosted an industry consultation workshop on two of the most contemporary topics that are focal points of discussion in digital space. Encryption and Data Retention. The workshop was aimed at obtaining industry inputs and deliberate on how the policy landscape of the country should evolve to cater to pressing concerns of stakeholders in this space. On the side-lines of the workshop, Analysys Mason unveiled a report on 'Encryption Policy landscape in the APAC region'. The workshop was attended by over 50 policy heads from the industry and government and was supported by Google India.



Internet Safety Awareness Program for SMBs

With the increased focus to bring the Small and Medium Enterprises (SME) sector online under the 'Make in India' initiative, DSCI developed a two-fold program – Multi city awareness seminars and virtual platform for SMBs to make them aware of cyber security challenges and issues. These programs were aimed at enhancing trust in the cyberspace by empowering their management workforce with knowledge and understanding to deal with cyber security challenges while operating online.

- **Multi-city SMB awareness program supported by Google:** DSCI launched an Internet Safety Program targeting small and medium enterprises in Delhi, Pune, Jaipur, Surat, Vadodara, Guwahati, Coimbatore and Goa. The workshop helped the SMBs inculcate safe and responsible behaviour through best practices, equipped them with necessary guidance, instructions and techniques to address cyber security challenges, and help spread awareness on legal and regulatory obligations.
- **Online Portal 'CyberAware' supported by Lockheed Martin:** To make the SMB awareness initiative sustainable, DSCI with the support from Lockheed Martin has set up a learning management system for delivering computer and web based awareness content to the SMB organizations. The virtual platform hosts interactive and insightful content in the form of CBTs, videos and games. Employees of SMBs and students from ITI(s) across the country set up their accounts and are being benefitted through the content.



Privacy

Government-Industry Consultation on Privacy

DSCI and NASSCOM have been engaging with government departments and agencies on the globally changing privacy regime, and its impact on the Indian industry. In a meeting convened by the government, DSCI apprised on how other countries are enacting/ amending their Privacy laws to facilitate cross-border data flows, that which has become vital to economic progress. Discussions were held around the implications of newly enforced European Union (EU) General Data Protection Regulation (GDPR) on the Indian outsourcing industry, and how EU-US Privacy Shield requirements match up against Information Technology (Amendment) Act 2008 provisions and efforts needed to align our privacy regime to facilitate trans-border data flows with geographies like the European Union. Impact assessment of Brexit on Indian industry was also discussed.

The meeting was attended by National Security Council Secretariat (NSCS), Department of Commerce (DoC), Ministry of Electronics and Information Technology (MeitY) and Industry associations along with NASSCOM and DSCI member companies.

Separately, DSCI briefed National Cyber Security Coordinator, highlighting the data protection landscape and its role in influencing digital trade and India's participation in that.

DSCI has been advocating for enactment of specific legislation on Privacy in the country.

DSCI Training and Certifications

DSCI currently runs two certification programs for individuals – DSCI Certified Privacy Lead Assessor (DCPLA©) and DSCI Certified Privacy professionals (DCPP©).

- **DSCI Certified Privacy Lead Assessor (DCPLA©) Program**

During the year, DSCI conducted DCPLA© training and certification program in different cities including Delhi, Bengaluru, Chennai and Mumbai.

DCPLA© program aims to create a pool of assessors who are equipped with necessary tools and skills to undertake privacy assessments of organizations, in line with DSCI Privacy Framework (DPF©) and DSCI Assessment Framework – Privacy (DAF-P©) requirements. Till now, in over 27 batches, over 400 individuals have been trained from more than 200 organisations.

400+ professionals DCPLA© trained

200+ organizations

27 total batches

- ***DSCI Certified Privacy Professional (DCPP®)***

The focus on developing a strong workforce for privacy in the country has gained momentum with DSCI Certified Privacy Professional (DCPP®) credentialing program through a great response from the student community and industry. The past year also witnessed increased engagement between industry-academia in the adoption of DCPP® certification.

A pilot batch was conducted with the objective to empower participants with overall knowledge and equip them with all necessary updates in the field of data privacy globally.



Global Trade Policies

India-US ICT Dialogue through Working Group

The U.S. and Indian ICT industry have many common interests in terms of how technologies are adopted around the world, and the potential role played by governments. A Working Group (WG) was established in 2005 to provide an institutional platform to bring forth ICT related issues and developments that leveraged to address bilateral issues as well as provides a common ground to better comprehend each other's positions and concerns and establish synergies while pursuing global opportunities or engaging in global issues, such as, cross-border data flows, cyber security, internet governance and e-commerce, among other contemporary issues.

CEO, DSCI presented India's position on cyber security at the India-US ICT Working Group meeting held in India. She highlighted India's advantage in the area of ICT, especially focusing on the cyber security industry's growth roadmap with respect to opportunities and areas for collaboration.

EU Public Diplomacy and Outreach in India and the SAARC

DSCI presented at the discussion on 'EU-India Security Dialogue: Traditional and emerging issues', hosted by Gateway House. DSCI presented Indian industry perspective on augmenting cross-border Data Flows and importance of Cyber Security Cooperation.

Internet Governance & Net Neutrality

Workshop on engagement with ICANN

MeitY in association with the National Internet Exchange of India (NIXI) organised a workshop to analyse issues related to Internet Corporation of Assigned Names and Numbers (ICANN) operations. The workshop aimed to create awareness and formulate an action plan-cum-strategy for greater engagement with ICANN, in addition to constituting an industry led Special Interest Group (SIG).

CEO, DSCI represented in session on 'Internet Standards and Protocol', where she emphasised on the aspects of technical standards and role of the Internet Engineering Task Force (IETF) in the standards development and value proposition of the IT industry, as vital contributions in the overall development process.

The workshop was attended by over 50 senior experts from the private sector (including IT-ITES companies, ISPs, registrars, e-Commerce organisations) as well as members of the academic community.

DSCI-ICERT workshop on ICANN-57

In association with CERT-In, DSCI conducted a workshop on 'Clean Pipe: Improving Health of Cyber Space', at the ICANN 57 meeting held in India. Attended by Network, Security & ISP community, the issue on how Network backbone and Internet in general could be free from unintended traffic such as spam, malicious traffic like spyware, malware, worms, trojans, bots, etc. were discussed. Issue of content filtering by ISPs, and whether removing content that violates legal framework such as child abuse would amount to ensuring clean pipe also came up as part of the discussions.

DSCI had been continuously facilitating and participating on Internet governance matters and dialogues, and has also been advocating its position in these meetings.

NASSCOM DSCI response on TRAI consultation paper

Network Neutrality and Cloud Computing has been deliberated across the globe. NASSCOM and DSCI consulted member organizations and subject matter experts to draft joint comprehensive responses to both TRAI Consultation papers on Cloud Computing and Net Neutrality. The view of the industry, keeping in mind MSMEs, is carefully articulated in the responses.

Cloud Computing & Internet of Things

Workshop on Data Classification and Cloud Selection Framework

Subsequent to the initial consultation held in March 2016, DSCI had developed a framework in form of a whitepaper, directing the approach to data governance and data classification. Currently, DSCI has developed a model that can be used by the government departments and agencies to select appropriate cloud services – Government Community Cloud, Virtual Private Cloud and Multi-tenant Public Cloud – through a well-informed decision matrix, taking critical factors into consideration. This workshop was specially targeted to government departments and cloud service providers to seek inputs to finalize the framework (model) to be formally submitted to MeitY for adoption.



GOI Policy on the Internet of Things

As part of the inputs invited by Government of India on Internet of things, DSCI underlined the importance of security, privacy and safety in IoT design and implementation, and the need to build institutional capacities to work on these issues through the establishment of a Center of Excellence.

Inputs were also provided on National Telecom Machine-to-Machine (M2M) roadmap focusing on a legal regime for security risks, making M2M free from regulator reach, privacy issues alignment with global efforts of harmonizing privacy rules for cross-border data transfer and adoption of international standards.

Response to TRAI Consultation Paper on M2M Communications

Subsequent to industry consultation on M2M communication, NASSCOM-DSCI responded on TRAI consultation on 'Spectrum, Roaming and QoS related requirements in Machine-to-Machine (M2M) Communications'. Aspects of security and privacy were also covered in the paper.

Skills Building

Engagement with SSC NASSCOM on Cyber Security

In collaboration with the IT-ITeS Sector Skills Council NASSCOM (SSC NASSCOM), under the aegis of Ministry of Skills & Entrepreneurship Development, DSCI has been furthering the objective of creating skilled and certified cyber security professionals in the country. The overarching objective of the endeavour is to cater to the gap between the rising demand and availability of industry ready cyber security professional.

During the first phase of the initiative, DSCI has developed and launched the Cyber Security Career/Occupational Map, standardized qualification packs (QPs) for ten upcoming job roles in this domain. The QPs have been notified by the National Skill Development Corporation(NSDC), the nodal agency for skill building in the county. In addition to this, courseware (student handbook and facilitator guide) for five of these QPs have been prepared and are being rolled out via formal education channel and industry. During the development, DSCI had extensively engaged the industry for validation of the content prepared.

The job roles launched are in the following areas:

- Analyst - Application Security
- Consultant - Network Security
- Architect IdAM
- Analyst - Security Operations Centre
- Forensic Specialist
- Analyst - Compliance and Audit
- Penetration Tester
- Security Infrastructure Specialist
- Analyst Endpoint Security
- Analyst IdAM

MoU with SSC NASSCOM & ISACA to address Cyber Security Skills Shortage in India

In a bid to combat the Cyber Security skills shortage in India, DSCI, SSC NASSCOM and ISACA have signed a Memorandum of Understanding (MoU). NASSCOM and DSCI have been developing a long-term roadmap for cyber security skills development in India. Under the agreement, ISACA will lend its expertise in this area to help drive this goal.

Cyber Forensics

DSCI has been actively involved in developing content and imparting training towards capacity building of law enforcement, judiciary, armed forces & prosecution departments in handling cybercrime investigations through its four cyber labs operating in Bengaluru, Mumbai, Pune and Kolkata. Apart from training & advising law enforcement agencies, these labs provide a platform for different stakeholders including police, judiciary, industry (IT-BPM, BFSI etc) and academia to collaborate, create awareness and develop methods to effectively tackle cybercrimes.

During the year, over 6,000 personnel from law enforcement, judiciary, armed forces & prosecution departments were trained through standard course of 5-day and short courses. Since inception, DSCI has trained over 63,000 personnel through its cyber labs.

Some of the special activities carried out by these cyber labs are given below:

- Session on 'Social media vis-à-vis policing' at North Eastern Police Academy, Meghalaya
- Session on 'Legal framework & Preservation of evidence' for Direct Taxes Regional Training Institute officials.
- Session on 'Cybercrime investigation techniques' for Delhi Police officials
- Workshop on 'Handling cyber security breach incidents, internal investigation, criminal provisions & civil remedies' at Indian National Bar Association (INBA)
- Exclusive session on 'cybercrime Awareness' at Mount Carmel College
- Short course on 'Overview of Cybercrime' for Corps of Military Police (CMP)
- Multiple sessions on 'Search & Seizure of Digital Evidence, IT ACT 2000 & Emerging trends in cybercrimes' Karnataka Police Academy (KPA) officials
- Session on 'Legal aspect of digital evidence' for Judges at Karnataka judicial academy
- A session on 'Cybercrime, Cyber law & incident response' for Indian Air Force officers
- Guest Lecture on 'search & seizure of digital evidence & mobile forensics' was conducted in commissioner of police office Bangalore
- A session on 'Intelligence gathering through digital media and CDR, TDR Analysis' for officers at Maharashtra Intelligence Academy
- 'Overview of cybercrimes & Information Technology (Amendment) Act, 2008' was conducted for probationary Women Sub Inspectors of Karnataka Police at Tumkur

Cybercrime Awareness Workshops

DSCI with the support of DeitY, and in association with state police conducted two Cybercrime Awareness Workshops. During this year, two-day Cybercrime Awareness Workshops on combating cybercrimes were conducted in Srinagar and Chhattisgarh. These workshops witnessed participation of over 200 Police officers from respective states.

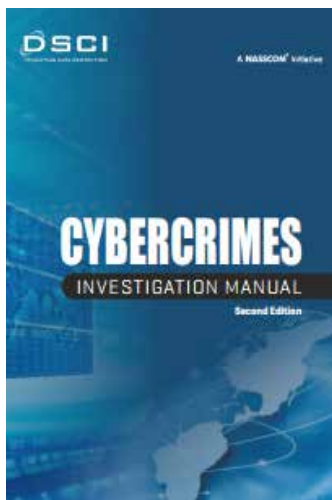


Release of Cybercrimes Investigation Manual –second edition

Investigation procedures for cybercrime have extensively transformed over the past few years, since the release of the first edition of Cybercrimes Investigation Manual in 2011. Attackers are more enduring, spending a considerable amount of time performing reconnaissance on their victims. Simultaneously, evolution of anti-forensics tools in order to hide traces of user activities have made investigations in digital media more complicated and time-consuming as attacks have become more sophisticated, detection tools and procedures have matured.

To shape up cybercrime investigation and equip law enforcement agencies (LEAs) with the latest tools, techniques and procedures, the cybercrime investigation manual was revised. The revised edition of Cybercrimes Investigation Manual is intended to provide LEAs with all the information required by an investigator to conduct a thorough and effective investigation without burdening them with technical and legal intricacies. The manual is organised to include overview of basic concepts in cybercrimes along with the culmination of complete procedures to handle them. Intermittently, the below topics are discussed in detail:

- Information Technology (Amendment) Act, 2008
- Introduction to file systems
- Malware analysis, mobile phone investigations
- Social media, cloud computing and forensics and virtual currencies
- Various annexures, at the closing of this manual, provide a background to basic digital devices, list of cybercrime cells and adjudicators in India, list of national nodal officers and other important data that will be useful to investigators during criminal investigations



Outreach and Awareness

India Meets for Security | NASSCOM-DSCI Annual Information Security Summit 2016

NASSCOM-DSCI Annual Information Security Summit (AISS) was organised from 13-15 December. AISS is India's largest annual gathering of the senior information security leaders and decision makers from the government, law enforcement, technology industry, Banking, Telecom, Healthcare, Oil & Gas Enterprises amongst others, from India and globally.

This year over 800 delegates and 152 eminent speakers representing diverse perspectives immersed themselves into intense deliberations, debates, interactions on policy and business critical issues, gaining in-depth knowledge and hands-on experience from the government, business, security and privacy leaders. Key themes on the agenda included 'Securing Digitization Drive', 'Security Data Science', 'Future of Cyber Crime', 'Building Cyber Security Industry', 'Big Hacks, causing kinetic impact', 'Securing public infrastructure- SCADA, ISC, IoT', 'Cyber Warfare-Policy Intervention & Capabilities', 'Engineering Privacy in Data Centric Business Designs' and more were deliberated during the three-day conference.

DSCI, along with NASSCOM Gaming Forum and KPMG, hosted the Cyber Game Zone & 'SEGAMATHON - Security Game Hackathon' giving an opportunity to game developers across India to showcase games on the theme of cyber security. DSCI also featured 'DSCI Innovation Box' for identifying the 'Most Innovative Security Product of the Year'. Apart from this, Simulations, Demo Theatre, Community Meetups, Forum Meets, Plenary tracks formed the special attractions.



DSCI Excellence Awards 2016

With the mission to create trustworthiness of Indian companies as global sourcing service providers, and to assure clients across the world of India as a secure destination for outsourcing, DSCI Excellence Awards was instituted wherein outstanding companies, industry stalwarts and privacy practitioners are rewarded for their exemplary performance. Instituted in 2011 and renowned for its value, DSCI Excellence Awards constitute independent judges from the industry and academia, with PricewaterhouseCoopers (PwC) as the Process Partner.

With 19 categories in three segments, Corporate, Law Enforcement and Product, Excellence Awards received 181 nominations.

Jury of DSCI Excellence Awards






CORPORATE	LAW ENFORCEMENT	PRODUCTS
Dr. Kamlesh Bajaj Founder CEO, DSCI	Loknath Behera, Director General of Police, Kerala Police	Baljinder Singh Global CIO, EXL Services
M.V. Tanksale former CEO, Indian Banks' Association	Pratap Reddy IGP, Western Region Mangalore	Hemal Patel, Senior Vice President for IT & Operations, Sophos & Fonder Cyberoam
Prof Huzur Saran Head of the Department- Computer Science, IIT Delhi	Vakul Sharma, lawyer practicing in the Supreme Court of India and High Court(s)	Vikram Gupta is the Founder & Managing Partner of IvyCap Ventures Advisors
Lt General (Retd) Davinder Kumar, CEO & Managing Director of Tata Advanced Systems		Sundeep Sahi Cofounder and CTO, Indifi

Winners in the Corporate Segment

Security in Organization

Security in Banking 	Security in Telecom 	Security in Internet Mobile & e-commerce 	Security in IT-BPM (Large) 
Security in IT-BPM (MSME) 	Security in Energy Sector- Oil & Gas 	Security in Energy Sector-Power 	

Security Leader of the Year

<i>Manufacturing Sector</i>	<i>Academia Sector</i>	<i>Financial Services Sector</i>	<i>IT-BPM Sector</i>	<i>Privacy Leader of the Year</i>
				
Abhinav Biswas Electronics Corporation of India Limited (ECL), Dept. of Atomic Energy	J S Sodhi Amity Education Group	Shiju Rowther A TransUnion CIBIL Limited	Sunil Varkey Wipro	Nity Singh Concentrix Corporation


Excellence Awards for Privacy in Organization

Best Privacy Practices in IT-BPM Sector WNS <i>Leading Your Clients</i>	Best Privacy Practices in User Industry vodafone
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Excellence Awards for Cyber Security Evangelists

Cyber Security Services Capgemini <i>WORKING TO KNOWLEDGE TOGETHER</i>	Cyber Security Education SRM UNIVERSITY <i>(Established in 1984)</i>	Raising Security Awareness HDFC BANK
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Special Jury Recognition Award

Cyber Security Initiatives by a State 	Raising Security Awareness amongst Masses V.P. Shintre & Associates
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Winners in Security Product and Companies

Emerging Information Security Product Company INDUSFACE	Most Innovative Product of the Year (Innovation Box) - IllusionBLACK by SMOKESCREEN
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Winners in Law Enforcement Segment

Capacity Building of Law Enforcement Agencies NDCRTC <i>NATIONAL DIGITAL CRIME RESOURCE & TRAINING CENTRE</i>	India Cyber Cop of the Year  M D Puwar Policy Inspector, Gujarat Police
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Best Practices Meet 2016

The eighth edition of DSCI Best Practices Meet was organised in Bengaluru. Themed on 'Security Data Science', the conference witnessed 47 speakers discussing various aspects around it. Over 300 security and privacy professionals from various industry verticals including IT-BPM, Banking, Telecom, Security Product, etc. participated in the conference.

In-depth discussions on focused topics including 'Cyber Crime Incident Response Management', 'Encryption Policy', 'RBI Cyber Security Framework', Privacy Workshop for Start-ups and 'Security Innovation: Protecting Against Cyber Attacks with Threat-Centric Security' conducted during the pre-event workshops were very well received by the audience.



Data Privacy Day 2017

With the aim to sensitize individuals and disseminate information on privacy practices and principles, DSCI celebrated International 'Data Privacy Day', on and around January 28, 2017. For the seventh year in a row, DSCI organised various activities for the privacy and security community, and larger public. It is an integral component of the data privacy wave in the country that DSCI has spearheaded.

While the digital privacy phenomenon is giving rise to formulation of resolutions across the world, DSCI is committed to ensure that privacy protection is taken up for implementation within the industry, work on capacity building front along with other activities including spreading awareness on the significance of privacy through internationally celebrated Data Privacy Day (DPD). In its sixth year in a row, DSCI has celebrated DPD along with the industry.

DSCI Chapters organized meetings on various privacy topics that included current global privacy landscape, recent technologies and trends in privacy, implementation issues and challenges, legislations, data protection regime among others. Organized in major cities- Delhi, Bangalore, Pune, Hyderabad, the meetings witnessed participation of over 200 privacy and security professionals.

On the occasion, DSCI also disseminated a message centered on privacy, encouraging organizations to adopt a Wallpaper theme created by DSCI. Over 100 organizations that included government and industry in various verticals like IT-BPM, BFSI, Health care, Energy, e-commerce, and others in India and abroad, counting to over 6 Lacs screens adopted it. To increase the engagement around data privacy, DSCI conducted privacy quiz and Privacy slogan contest for the InfoSec community. Over 100 privacy practitioners participated in the quiz and 8 shortlisted privacy slogans were posted on twitter. DSCI, CEO also sent out DPD message to the entire community.

Data Privacy Day highlights

- **200** privacy and security professionals
- CEO message to the privacy community
- Adoption of Privacy-themed wallpaper in over **6** lac screens from over **150** organisations
- Online quiz
- Slogan contest over Twitter



Outreach - Partnered Events

FIDO Alliance Tour on Digital Banking

In collaboration with FIDO Alliance and Persistence, DSCI organised an informational workshop around the approach for a simpler, stronger authentication, particularly in digital banking. The workshops were conducted in Mumbai and Bengaluru, and guided user-organisations in enhanced/ application of best practices in online authentication processes.

Data Security for Healthcare Sector

DSCI represented at the Fleming Conference on Cyber Security India Summit and presented on 'Data Security to safeguard the healthcare sector' in the Indian context. DSCI underscored the data security risks while highlighting data in healthcare sector. DSCI recommended the next steps for Indian Healthcare Ecosystem.

BFSI Roundtable Meeting

The third BFSI forum was convened in Mumbai with focus on 'Advanced Persistent Threats'. SS Sarma, Director, Cert-In, present at the meeting, elaborated on various kind of attacks that Banks are currently facing and also suggested various approaches to handle them. The roundtable meeting also witnessed discussions around 'Digital Banking: Emerging Treats and Best Practices', 'Handling Cyber Security breach incident', and 'Building Next Generation SoC'. The meeting was well received by the CISOs and risk officers from over 20 nationalized and private sector organizations.

Google, MeitY and DSCI collaboration for 'Digital Payments Security Awareness and Alliance' campaign

MeitY, Google India and DSCI have undertaken an initiative on security awareness for digital payments and are on-boarding ecosystem partners as alliance members. The initiative is planned to drive awareness by establishing change agents in both demand and supply side of the community, hence, resulting in a two pronged approach to mutually complement each other while covering security aspects in three subject areas - (a) security aspects in government initiatives like BHIM application based on UPI, AEPS, USSD, (b) security aspects while dealing with digital wallets and mobile banking and (c) security aspects around online banking and various card schemes.

1. 'Digital Payment Security Awareness Campaign' will engage communities including individuals (users), micro, and small and medium businesses, traders, etc. making them aware of best practices for using PoS machines, mobile applications, etc. and do's and don'ts of various digital modes.
2. 'Digital Payment Security Alliance' facilitating the ecosystem to deliberate on a common agenda while focusing on policy, deriving best practices from global success stories, insights around demand side of the ecosystem through campaign learnings.

DSCI-Google Roundtable on 'Engineering a Secure Web'

A roundtable meeting was convened to discuss and take inputs around engineering and architectural aspects of the web and how to embed the critical aspect of security into the digital platforms. Experts from the industry and government underscored the importance and imperativeness of 'Security by Design' in the entire engineering ecosystem including browsers, applications, networks to endpoints. Google shared its views on security of their browsers and other platforms. Capacity building and skill development were also deliberated during the meeting.



Cyber Security Session at Bengaluru.ite.Biz

CEO, DSCI presented 'Roadmap for Making India a Global Hub for Cyber Security' highlighting ten recommendations put forth by Cyber Security Task Force (CSTF). She apprised the audience on global cyber security landscape and opportunities in India and highlighted the framework developed for cyber security initiatives that includes cluster formation, technology creation, demand generation, capacity building and policy and regulations along with the pan sectoral activities involving the industry and government.

Advancing the Development of Cyber Products and Services

Development of security products and services had been able to add significant value to the nation's capabilities in the area of cyber security. While DSCI has been continuously focusing on nurturing the development and promotion of cyber security product and services in the country, government has been engaging the stakeholders to encourage the development of the ecosystem.

Numerous initiatives were undertaken to promote cyber security innovation and entrepreneurship culture in the country starting from mentoring and nurturing start-ups at various phases of their life cycle, providing platform to showcase capabilities developed by them, mobilizing the networking opportunities with investors as well as user organisations. DSCI has been working with the government agencies from the policy viewpoint to open avenues for the start-ups in procurement process and make a level playing field with the mature players. Initiatives such as DSCI Excellence Awards for security product companies and Innovation Box have been playing a crucial role recognising the technical capabilities and business excellence. .

NASSCOM-DSCI envisioned growth of 1000 start-ups by 2025. Recommendations and roadmap to achieve this ambitious target has also been put forth for the implementation.

Engagement with STQC on Common Criteria Standards

Standardisation Testing and Quality Certification (STQC) as part of 'Cyber Security Assurance Program' of MeitY had established a Certification Body and Testing Lab for evaluation & certification of IT products under National Security Architecture of National Security Council Secretariat (NSCS). DSCI along with Indian start-ups were part of the series of workshops on Security of IT Products using Common Criteria standards, conducted in line with the government policy of 'Make in India' by promoting the IT start-ups and making them competitive through globally acceptable certification. DSCI was engaged in driving industry participation for these workshops.

Cyber Security Session at NASSCOM Product Council

Session on Security Use case - 'Security Use Cases: What works and What Not? ...Ideas, Innovation and their Commercialization' was conducted on the sidelines of NASSCOM Product Council where challenges in building security start-ups in India and approaches to address the issue, was extensively deliberated.

Start-ups Evangelization

DSCI represented as mentor at the NASSCOM 10K Start-up Mentorship Initiative. The session was organized to guide them on their business plans, go-to market strategy and address key technical & cyber security related queries. Over 20 start-ups participated in the session.

Engagement with Members

DSCI-SCOPE Workshop on Cyber Security for Public Sector Enterprises

In collaboration with SCOPE, DSCI conducted a workshop focussing on various cyber security issues and challenges for the public enterprises and best possible means and ways to deal with them. Dr. Gulshan Rai, National Cyber Security Coordinator, Government of India, in his inaugural remarks highlighted the significance of raising awareness on cyber security challenges especially among the Public Sector Enterprises (PSEs) as the segment owns large Critical Information Infrastructure. Dr. U.D. Choubey, Director General, SCOPE while highlighting the importance of cyber security for PSEs also urged the need for regular interactions with the top management.

The workshop which was attended by major PSEs like ONGC, BPCL, AAI, ECIL, HPCL, Oil India, Mazagaon Docks and more, encompassed sessions on Critical Infrastructure Protection, National Security, Advanced Persistent Threats, Protection against Botnets and Cyber Security governance.

It also conducted a roundtable meeting on cyber security and privacy challenges to sensitize the board members of PSEs.

Corporate Membership Program-Sessions on Cybercrimes, Cyber Laws & Incident Response

As part of the DSCI Corporate membership program, sessions on cybercrime, cyber laws & incident response management was organized at the premises of various banks and insurance companies. These sessions provided information security and incident response teams with an insight into the emerging trends in cybercrimes, existing legislation and integrating computer forensics into the incident response system. DSCI also provided advisories to its member companies on various policies and strategic issues related to cyber security and data protection.

Members' engagement

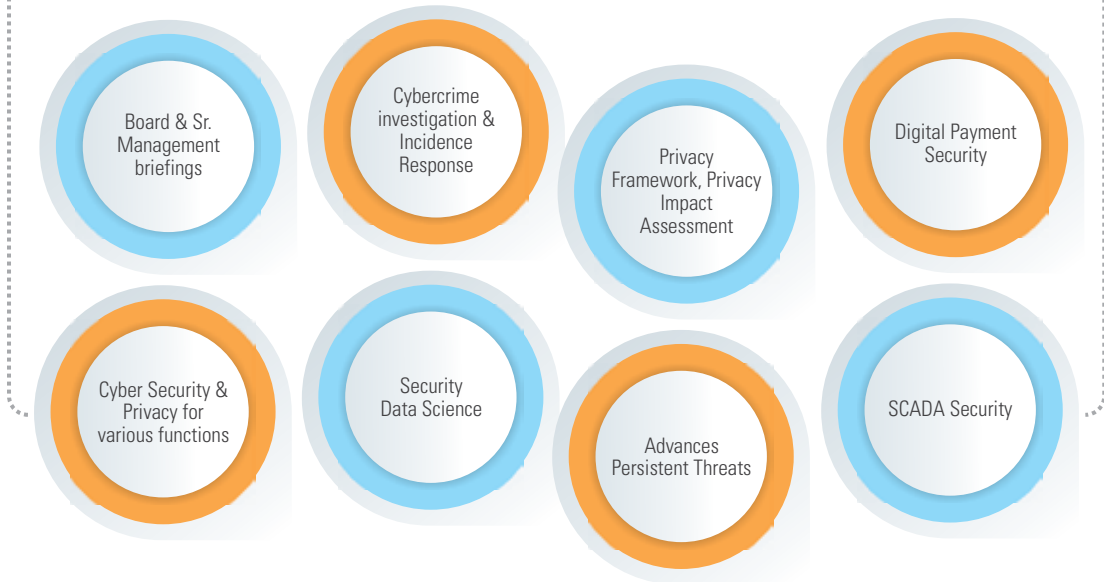
- o Policy discussion on Remote Connectivity requirement from OEMs, proactive maintenance of equipment, Patch management, etc. with the employees of ONGC. DSCI discussed Remote Maintenance Cyber Security Best Practices.
- o Workshop was conducted for FIS employees on DSCI Privacy Framework and conducting Privacy Impact Assessment
- o DSCI was invited to apprise NHPC employees on Security aspects in the Digital and Cashless payments. DSCI discussed internet fundamentals, key cyber threats impacting end users, responsible cyber behaviour: norms and obligations, Dos and don'ts of securing, demonetization- a changing paradigm, securing your transactions: over Internet, mobile and other devices, digitization and your privacy, towards secure cashless and digital society and more.

Corporate Membership Benefits specific to the organization

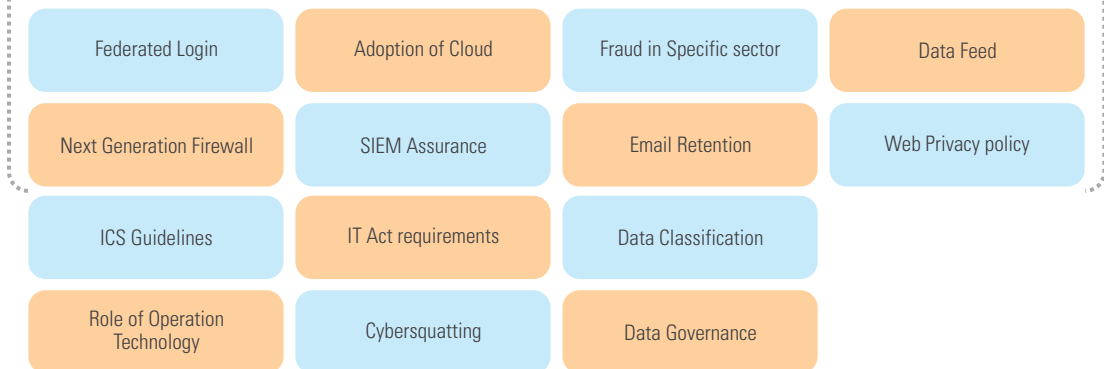
Guidance/Deliberation



Education/Awareness



Advisory/Queries



Community Development and Evangelization

Regional engagement to strengthen the national cyber ecosystem through Chapters

During the past year, our chapters organized meetings on various facets of cyber security and privacy. Our regional presence encompasses a strong community of more than 4,000 security and privacy professionals in Delhi, Mumbai, Pune, Kolkata, Bengaluru, Hyderabad and Chennai.

Launch of Singapore Chapter

DSCI launched its first global chapter in Singapore with the aim to encourage the exchange of information, sharing of knowledge and best practices on cyber Security. DSCI Singapore chapter among other things would be engaged in the following activities:

- Building linkages with stakeholders in the government, industry, LEAs and academia
- Establishing channels of collaborations on policy deliberation, industry development and capacity building on Security Privacy and Cybercrime investigation, among others
- Building community to bridge cyber security skills gap between India and Singapore
- Exploring opportunities for developing niche capabilities in cyber security product space



Way Forward

In the year ahead, DSCI will continue to focus on thought leadership, policy advocacy around cyber Security, Data Protection and privacy. The year will witness significant initiatives in Cyber Security industry growth charter and growing the product ecosystem & start-ups.

DSCI will also drive promoting India as a destination for Cyber Security for global corporations and develop India as preferred destination for cyber security, Research & Development and Operations. Cyber security skills and talent development will be one of the key imperatives this year. We will partner with NASSCOM Sector Skills Council, government and academia to ensure that capabilities are built to meet the growing talent demand in this strategic area.

Given India's rapid march in digital payments, DSCI has embarked upon digital payments security alliance and awareness campaign. During the year, we will roll out a comprehensive user awareness campaign targeted at both end users, merchants, traders and Small and Medium Businesses (SMBs). The hallmark of this campaign would be a comprehensive multimedia in Indian languages. This awareness campaign outreach will leverage industry members, banking sector institutions and government platforms. The alliance will focus on bringing stakeholders in the domain of digital payments to deliberate on enabling policies needed both from government and regulators, disseminate global best practices for India's digital payment wave to be enshrined with adequate safety and security to offer trust and assurance to end users.

DSCI will continue to be the flag bearer in data protection in the country and will engage with government and industry on the proposed data protection law and on industry readiness for EU GDPR. During the year, one can witness DSCI engaging in cyber security challenges in emerging domains like Internet of Things Security, Automotive Security and block chain and virtual currencies.

DSCI's focus on engaging with Law Enforcement and Capability Development in Cyber Forensics and Cyber Crime Investigation will be scaled up.

Mapping the country's capabilities and competencies in cyber security across industry, government and academia has been a challenge over the years. To address this, DSCI has undertaken a project of strategic importance to the country namely 'National Technology Capability Repository'. The repository will be developed through extensive primary & secondary research and map available competencies in India across industry, academia and government in 25 technology areas that are critical to Cyber Security capacity development in the country.

DSCI apart from the year long series of workshops, seminars and round tables will host its Annual Best Practices Meet in Bengaluru in June, and its Flagship Annual Information Security Summit in Gurgaon. AISS 2017, in its 12th year, is slated for December 13th-15th at The Leela Gurgaon and will surely be the most awaited Cyber Security Conference in India, setting new benchmarks year on year. This year DSCI will also be hosting a new FinSec Conclave in Mumbai in February 2018.

To sum up, DSCI Team has taken on many new initiatives to grow the cyber security ecosystem, and India's Cyber Preparedness, and we look forward to active support and contribution from all our Members and Stakeholders, and the Cyber Security, privacy community.

DSCI saw widespread coverage of its initiatives and events in a variety of local and national media publications



'Go digital' drive brought cyber security to the fore in India

With the country logging into the digital world to become a cashless economy, the threat of data breach loomed over both public and private enterprises, with several such cases being reported through the year -- forcing the government to wake up from its slumber and prepare for digital war.

By IANS | New Delhi | Published: December 17, 2016 2:47 PM

IT News / Latest IT News / Security

Security » SSC NASSCOM Matt Loeb ISACA DSCI Cybersecurity Nexus

DSCI, SSC NASSCOM and ISACA join forces to address cyber security skills shortage in India

The cyber security skills shortage is impacting organizations throughout India and around the globe, with empl reporting difficulties hiring skilled candidates and preparing for cyber security threats.

ETCIO | June 13, 2016, 15:57 IST

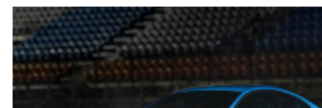
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Newsletter

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New Delhi- In a bid to combat the cyber security skills shortage, Data Security Council of India (DSCI), Sector Skills Council National Association of Software and Services Companies (SSC



Why India's IT Act needs an overhaul

A comprehensive legislation to regulate the digital economy should be in place quickly

The government is finally looking at amending the Information Technology Act, 2008 which deals with cyber crimes and e-commerce. The new amendment is expected to be a game-changer, giving the government the power to regulate the digital economy. The act is currently outdated, with several provisions that are no longer relevant. The government needs to update the act to address the challenges of the digital economy. The act should cover areas like data protection, privacy, and digital rights. The government should also consider the impact of the act on businesses and consumers. The act should be comprehensive and cover all aspects of the digital economy. The government should act quickly to update the act to meet the challenges of the digital economy.



India to become cyber security hub by 2025

D Gokhale
CEO/owner

India has the potential to build a cyber security product and services industry to the tune of \$15 billion by 2025, says Nasscom, which has unveiled the 'Growing Cyber Security Industry, Roadmap for India' report, along with Data Security Council of India (DSCI). Nasscom envisages the Indian IT industry to achieve a size of \$150-200 billion by 2025. Given the existing status and the possibility of rapid growth, the country can aspire to build a cyber security product and services industry of \$15 billion by 2025 and generate a skilled workforce of one million in the security sector to cater to the rise in global demand. The global cyber security market is expected to reach about \$190 billion by 2025, from \$85 billion at present and will be primarily driven by the increasing digitization rate and smartphone penetration, leading to newer attacks



and should be pursued within the next few years. Effective programme roll-out and strategic vision realisation will require disciplined management of the 16 key initiatives suggested in the report," said R Chandrasekhar, president, Nasscom. "In short, a substantial trajectory change is required by Indian cyber security industry to achieve its growth vision," Chandrasekhar added. The report identifies managed security service (MSS), security and vulnerability management (SVM) and network security (NSM) as attractive opportunities globally, with MSS emerging as the most attractive opportunity, with highest growth of more than 12 per cent and the largest market size of around \$18 billion. "Given the dynamic nature of the cyber space, we firmly believe that the country, government and the entire gamut of stakeholders in the ecosystem, must and will, continually long strategise at all levels. Cyber security clusters, a recommendation of our report, can be a key enabler for growing the ecosystem rapidly. We believe that this report will act as the blueprint to define the cyber security ecosystem in India and provide direction to both the industry and the government," said Rama Velamuri, CEO, DSCI. govindaraj@myipglobe.com

DSCI SUCCESSFULLY CONCLUDED AISS 2016 | THE THREE-DAY CONFERENCE ON CYBER SECURITY

Posted By [Thehindustan](#) on Dec 20, 2016

Industry And Commerce

New Delhi, 20 December 2016: The NASSCOM-DSCI 11th Annual Information Security Summit (AISS) 2016 has successfully concluded. The summit was inaugurated by Dr. Gulshan Rai, National Cyber Security Coordinator, Government of India. AES is India's largest annual gathering of the senior information security leaders and decision makers from the government, business, security and private industry. Banking, Telecom, Healthcare, Oil & Gas Enterprises amongst others, from India and abroad.

This year over 800 delegates and 153 eminent speakers representing diverse perspectives immersed themselves into intense deliberations, debates, interactions on policy and business critical issues, gaining in-depth knowledge and hands-on experience from the government, business, security and private industry. Key themes on the agenda included: Security Data Science, Drive, Security Data Science, Future of



Data Power Delhi Distribution (Data Power-DDL) has been conferred with 'DSCI Excellence Award 2016' for Excellence in Data Security in Energy Sector-Power by the Data Security Council of India (DSCI) at the NASSCOM-DSCI Annual Information Security Summit 2016 held in Bangalore. The award was presented by R Chandrasekhkar, President, NASSCOM & Rama Vedashree, CEO, DSCI to Team Data Power-DD.

live mint
07 June 2017 | E-Paper

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Nasscom unveils 10-year cybersecurity roadmap for India

Nasscom envisages the Indian IT industry to achieve a size of \$350-400 billion by 2025

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'T' bets big on cyber security, data analytics

IT'S HAPPENING IN IT

- Go to offer signs such as 99% rebate on building fees and power incentives
- Go to generate awareness about cyber protection among citizens
- Go to plan on building skilled workforce for the industry
- Go to provide the state as an ideal destination for cyber security firms and startups wanting to develop cyber security products

Data analytics

- Go to set up a data analytics push in Hyderabad
- Develop skilled workforce

Cisco's Projects

- Go to develop City Digital Platform in 25 PM areas near Hi-Tec city
- Go to plan on building smart lighting, traffic analytics at key junctions, smart environmental sensors, smart waste management

Big spike in cyber crimes

UP, Maharashtra top list of cases booked in 2015

BY SUBHANATH
Noida, November 7
The incidence of cyber crimes as the country went up slightly last year. In 2015, the number of cases booked under the cyber crime category rose 19.10 per cent to 11,593 from 9,622 in the previous year, according to the latest report of the National Crime Record Bureau (NCRB).

Uttar Pradesh topped the list with 2,208 cases, followed by Maharashtra with 2,010; Karnataka 1,447; Rajasthan 949 and Telangana 667.

What is worrying is that cyber crime rates are growing at an alarming rate in States such as Bihar, Andhra Pradesh and Jharkhand.

However, the Data Security Council of India (DSCI), an arm of IT industry lobby Nasscom, sees this development as a recognition of a huge problem. "It shows that the awareness levels in the law-enforcing agencies have gone up. It is a very important step in



DSCI appoints Rama Vedashree as Chief Executive Officer

Data Security Council of India (DSCI) appointed Rama Vedashree as Chief Executive Officer

Time to walk the talk
The ministry of electronics and IT has failed to come out with detailed guidelines and action plan to enact national cyber security policy over three years of its launch.

Pratap Vikram Singh / August 23, 2016

Minister of Electronics and Information Technology, Government of India, Dr. Manoj Sinha, with DSCI President R. Chandrasekhkar and DSCI CEO Rama Vedashree.

MOU FOR CYBER SECURITY

In a bid to combat the cyber security skills shortage, Data Security Council of India (DSCI), Sector Skills Council National Association of Software and Services Companies (SSC-NASSCOM) and Information Systems Audit and Control Association (ISACA) have signed an MoU.

The SSC-NASSCOM and DSCI are developing a long-term road map for cyber security skills development in India, and ISACA will lend its expertise in this area to help drive this goal.

"Securing cyberspace and building the next generation of cyber professionals is vital to safeguarding India's critical information infrastructure. It is a global problem that needs to be addressed by all stakeholders jointly. The NASSCOM and DSCI have launched several initiatives through DSCI to promote data protection, which are aimed at enhancing cyber security and enabling India to emerge as a leader in this space. There is a need for industry-ready talent that can only be achieved through training. This partnership with ISACA goes one step further in bridging this gap," NASSCOM president R Chandrasekhkar said.

DSCI launches Singapore chapter

SINGAPORE, PTI. A premier industry body on data protection in India on Saturday launched its Singapore chapter to encourage the exchange of information, sharing of knowledge and best practices on cyber security.

Data Security Council of India (DSCI) Singapore chapter, among other things, would establish channels of collaborations on policy deliberation, industry development and capacity building on Security Privacy and Cybercrime investigation.

It would also be building community to bridge cyber security skills gap between India and Singapore and exploring opportunities for developing niche capabilities in cyber security product space. "Cyber

will be a top priority for the Ministry of Electronics and Information Technology, Government of India. The Singapore government also issued a series of policies such as the Cyber and Digital Information Act, that aims to set up a data centre in the country. This move comes in line with the Digital Information Act, which is a key priority of the Ministry of Electronics and Information Technology, Government of India. The Singapore Data Analytics Wing

US FTC reports 23,709 tech support scam complaints in Jan-Aug 2015

US Federal Trade Commission has reported over 23,700 'technology support scam' complaints in January-August 2015, with consumer loss seen at over \$5 million, according to Nasscom. Nasscom has been

Blog, Podcast & Social Media

Blogs

The DSCI Blog acts as a central resource for thought leaders to converge virtually, create and sustain a collaborative dialogue on the various interconnected aspects of cyber security and data protection.

Access here: blogs.dsci.in

Podcast

Launched in 2016, you can now listen to our podcasts on pertinent issues in the cyberspace. Avid podcasters can now stay updated with our frequent podcasts.

Access here: podcast.dsci.in

Social Media

Our social networks, over the past years have become a tool for communication, collaboration and dissemination of information. We engage with our stakeholders on a regular basis to keep them updated on the latest happenings at DSCI.



3400+
Company Page
Followers



2500+
followers



5000+
followers

Corporate Members

Organisation

3i Infotech	Applied Materials India Private Limited
4i Apps Solutions Pvt Ltd	APPOINT SOFTWARE SOLUTIONS PVT LTD
7SEAS TECHNOLOGIES LIMITED	Aptech Limited
AABSYS Information Technology Pvt. Ltd.	Arctern Consulting Private Limited
ABZOOBA INDIA INFOTECH PRIVATE LIMITED	ARICENT TECHNOLOGIES (HOLDINGS) LIMITED
Accel Frontline Limited	Arrk Solutions Pvt. Ltd.
Accenture Services Pvt. Ltd.	Ascenders Technologies Private Limited
Acclaris Business Solutions Pvt. Ltd.	Ascent Informatics (India) Pvt Ltd
ACCRETIVE HEALTH PRIVATE LIMITED	ASE STRUCTURE DESIGN PVT LTD.
ACS of India Pvt Limited, A Xerox company	ASM TECHNOLOGIES LTD
ADOBE Systems India Private Limited	Aspire Software Consultancy Pvt Ltd
ADP Private Limited	Aspire Systems (India) Private Limited
Advanced Business Intelligence and Analytics Pvt Ltd.	ATOS ORIGIN INDIA PVT LTD
Adweb Technologies Private Limited	Attra Infotech Pvt Ltd
Aegis Limited	AUFAIT TECHNOLOGIES PVT LTD
Ajuba Solutions (India) Private Limited	Aujas Networks Pvt. Ltd.
AKS Information Technology Services Pvt Ltd	AURIONPRO SOLUTIONS LTD
Alcatel-Lucent India Ltd	Avantha Business Solutions Ltd.
Allahabad Bank	Avaya India Pvt Ltd
Allerin Tech Pvt Ltd	AvioHeliTronics InfoSystems Pvt Ltd
Alsbridge Advisory Pvt Ltd	AXA Business Services Pvt. Ltd.
Altimetrik India Pvt. Ltd.	AXIS Bank
Amaze Infotainment Pvt Ltd	Axis Veriforte Services private limited
Amdocs Development Centre India Pvt. Ltd.	BAHWAN CYBERTEK PVT.LTD
AMRUT SOFTWARE PVT LTD.	Bank of India
Anarghyaa ETech Solutions Pvt Ltd	Barclays Shared Services
ANIBRAIN DIGITAL TECHNOLOGIES PVT LTD	Barry-Wehmiller Intl. Resources Pvt. Ltd.
Appexigo Technologies Pvt. Ltd.	Bebo Technologies Private Limited
	Bechtel India Pvt. Ltd.

Organisation

Bharat Electronics limited	Cnergyis Infotech India Pvt. Ltd.
BEML LIMITED	CodeLogix technologies
Best of Breed Software Solutions India Pvt. Ltd.	Cognet HR Solutions Pvt Ltd
Bharat Petroleum Corporation Limited	Cognizant Technology Solutions
Bharatiya Reserve Bank Note Mudran Pvt. Ltd.	Collabera
Birlasoft (India) Limited	Colt Technology
Blue Star Infotech Limited	Compserv Consultants Private Limited
BNP PARIBAS INDIA SOLUTIONS PRIVATE LIMITED	Concentrix BPO Pvt Ltd
Botree Software International Private Limited	Congruent Solutions
BRAINYARD INDIA PRIVATE LIMITED	ConnectM Technology Solutions Pvt. Ltd
Brickwork India Pvt Ltd	Convergys India Services
Broadridge Financial Solutions (India) Pvt Ltd	Couth Infotech Pvt. Ltd.
BUSY INFOTECH PVT. LTD.	CPA GLOBAL SUPPORT SERVICES INDIA PVT. LTD.
Butler Technical Services India Pvt. Ltd.	CREDIT INFORMATION BUREAU (INDIA) LIMITED
CA (India) Technologies Pvt. Ltd.	CSC Technologies India Private Limited
Cactus Communciations Pvt. Ltd.	CSS Corp Pvt Ltd
Cambridge Technology	CtrlS Datacenters Ltd
Canara Bank	CyberEye Research Labs & Security Solutions Pvt. Ltd.
Canon India Private Limited	Cybertech Systems and Software Ltd.
Capgemini Business Services (I) Ltd	CYGNET INFOTECH PVT. LTD.
Capita India Private Limited	CygNET Systems Pvt. Ltd
CDK Global (India) Private Limited	CYIENT
Cegura Technology Solutions Pvt Ltd	Data Infosys Ltd.
Central Bank of India	Data Resolve Technologies Private Limited
Centre For Development of Advanced Computing (C-DAC)	Data Resolve Technologies Pvt. Ltd.
Centre for Development of Telematics	Datamatics Global Services Limited
CertiSafe Private Limited	DBOI Global Services Pvt. Ltd.
CGI Information Systems and Management Consultants Pvt Ltd	DBS Bank Ltd
Changepond Technologies	Delgence Technologies Private Limited
CIBERsites India Pvt Ltd.,	Dell International Services India Pvt. Ltd.
Ciena India Private Ltd.	Deloitte
CipherCloud	DIMENTRIX TECHNOLOGIES PVT. LTD.
Cisco Systems India Pvt. Ltd.	Drishti-Soft Solutions Pvt Ltd
Clickcubes Technology Private Limited	DST worldwide Services
Cnergyis Infotech India Pvt Ltd	Eastern Software Systems Pvt Ltd
	EBAY INDIA PVT. LTD.

Organisation

eCore-Agile Security Services Pvt Ltd	GAIL (India) Limited
e-Emphasys Infotech Pvt. Ltd.	GE India
ELAGOON BUSINESS SOLUTIONS PRIVATE LIMITED	Genpact
Electronic Arts Games (India) Pvt Ltd	Geometric Limited
ELOGIC Technologies Private Limited	GlobeOp Financial Services (India) Private Limited
eMids Technologies Pvt Ltd	GMO GlobalSign Certificate Services Pvt. Ltd.
Engineering Projects (India) Ltd	Graycell Technologies Exports
Entrust Datacard	Gujarat Informatics Limited
Investnet Asset Management India Pvt Ltd	Guru Gowri Krupa Technologies Pvt Ltd
e-Nxt Financials Ltd	H5 Asia Pacific Pvt. Ltd.
Eperium Business Solutions India Pvt. Ltd.	HACKETT GROUP (INDIA) LIMITED
Equinox Software & Services Pvt Ltd	Halt Dos Pvt Ltd
ERP BOSS	HCL Technologies
Etisalat Software Solutions Pvt Ltd	HCM Info Systems
EVALUESERVE.COM PVT. LTD.	HDFC Bank Limited
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EXL Service	Hero MotoCorp
e-Zest Solutions Ltd	Hewlett Packard India Sales Ltd
Fidelity Business Services India Pvt. Ltd.	Hexaware Technologies
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FIRST ADVANTAGE PVT. LTD.	Hinduja Global Solutions Limited
FIRST AMERICAN (INDIA) Pvt. Ltd.	Hindustan Petroleum Corporation Limited
Firstsource Solutions Limited	Hi-Tech Outsourcing Services
FIS Global Business Solutions India Pvt. Ltd.	HONCHO COMMERCIAL PVT LTD
Fiserv India Pvt Ltd.	Honeywell
FixNix Infosec Solutions Private Ltd.	HSBC Electronic Data Processing India Pvt. Ltd.
Flipkart Internet Pvt. Limited	HTC GLOBAL SERVICES (INDIA) PVT LTD.
FLUXONIX Security Solutions Pvt. Ltd.	Huawei Technologies India Pvt Ltd
FNF Business Process Outsourcing Services India Pv. Ltd.	HUGHES SYSTIQUE INDIA PRIVATE LIMITED
Fourth Dimension Solutions Ltd	Hyperquality India Pvt. Ltd.
Franklin Templeton International Services (India) Pvt Ltd	HyTech Professionals India Pvt Ltd
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FUTURE FOCUS INFOTECH PVT LTD	iAccept Softwares Pvt Ltd
	IBM India
	IBS SOFTWARE SERVICES PVT. LTD.

Organisation

ICICI Bank Ltd	Invesco (Hyderabad) Private Limited
ICICI Prudential	IONIDEA
Ideas Inc Management Pvt Ltd	Irevna, a division of CRISIL
IDG VENTURES INDIA ADVISORS PVT. LTD.	ITC Infotech India Limited
IDS INFOTECH LTD.	ITCube Solutions Pvt. Ltd.
IIC TECHNOLOGIES PRIVATE LIMITED	Ivy Comptech Pvt Ltd
iInterchange Systems Pvt. Ltd.	iYogi Technical Services Pvt Ltd
iNautix Technologies India Private Limited	Jeevan Technologies India Private Limited
INDIAGAMES LTD	JJI TECHNOLOGIES PVT LTD
Indian Oil Corporation Limited	JK TECHNOSOFT LIMITED
Indus Net Technologies	Kaalbi Technologies Private Limited
Indus Valley Partners (India) Pvt. Ltd.	Kaavian Systems Pvt. Limited
INDUSA INFOTECH SERVICES PVT. LTD.	Karvy Data Management Services Limited
Infinite Computer Solutions	Karvy Global Services Limited
Infinity Infotech Parks Limited	KENSOFTECH LTD
Info Edge (India) Limited	Kotak Mahindra Bank Ltd
InfoBeans Systems India Private Limited	KPIT CUMMINS INFOSYSTEMS LTD
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Infosoft Global Private Limited	Kumaran Systems Pvt. Ltd.
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INFOZECH SOFTWARE LTD	Lexington Soft Pvt Ltd
INFRASOFT TECHNOLOGIES LIMITED	Limtex Infotech Limited
Infrastructure Development Finance Corporation	Liquid eLearning Services Private Limited
Inlogic Bizcom Pvt. Ltd.	Lister Technologies Private Limited
INNEFU LABS PRIVATE LIMITED	Logic Heart Pvt Ltd
Innobuzz Knowledge Solutions Pvt. Ltd.	Mafiree
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Integra Software Services Private Limited	MAINTEC TECHNOLOGIES PVT LTD
Inteliment Technologies (India) Pvt Ltd	MAKEMYTRIP INDIA PVT. LTD.
INTENSE TECHNOLOGIES LIMITED	Manipal Global Education services Pvt Ltd
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Interra Information Technologies (I) Pvt. Ltd.	Mcafee Software (I) Private Limited
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Organisation

MEDMA INFOMATIX PVT LTD	Novartis Healthcare P Ltd.
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Mindtech	OIL & NATURAL GAS CORPORATION LIMITED (ONGC)
Misys Software Solutions (I) Pvt Ltd.,	Oil India Limited
Mjunction Services Limited	Olive E-Business Pvt. Ltd.
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MothersonSumi Infotech & Designs Ltd.	Ontrack Systems Limited
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MphasiS Ltd.	Opton Infocom Pvt Ltd
Mresult Services Private Limited	Oracle India Private Limited
Multi Commodity Exchange of India Ltd.	ORBIS Financial Corporation Ltd.
Mynd Solutions Pvt. Ltd.	ORBITAL OUTSOURCING SERVICES
National Payments Corporation of India	Oriental Bank of Commerce
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Net Vigil Software Private Limited	Orkash Services Pvt Ltd
NetApp India Pvt. Ltd.	Oxygen Consulting Services Private Limited
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Netscout Systems Inc.	Panoramic Universal Limited
Network Intelligence India Pvt Ltd	Parablu Systems Private Limited
Newage Software and Solutions	Paripoorna Software Solution Service Pvt. Ltd.
Nhance Engineering Solutions Pvt.Ltd.	Patni Computers Systems Pvt. Ltd.
NHPC LTD.	Pawaa Software
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Organisation

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PLINTRON	SEAL INFOTECH PVT.LTD.,
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Pratham Software Pvt Ltd	Security Brigade InfoSec Private Limited
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SASLAB TECHNOLOGIES PVT LTD	SUMMIT INFORMATION TECHNOLOGIES PVT.

Organisation

LTD.	Trigyn Technologies Ltd
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SunGard Solutions (India) Pvt Ltd	UNISYS GLOBAL SERVICES INDIA
SunTec Business Solutions	United Health Group Information
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Telerad Tech Pvt Ltd	XSYSYS TECHNOLOGIES PVT.LTD.
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