Sub: KJA Task Group on Karnataka Cybersecurity Vision

1. Cybersecurity is the suite of technologies, processes and practices that are designed and implemented to protect networks, computers, programs and data from attack, damage or unauthorized access. Cybersecurity would include Application security, Information security, Network security, Disaster recovery / business continuity planning, Operational security etc. Cybersecurity, therefore, is highly relevant across various government, industries, academia – State Data Centres, e-gov services, IT companies, Bio-technology, Aerospace, Retail, Healthcare, Intelligence, Hospitality, Banking and Finance, Military etc. The growing importance of Cybersecurity is also due to the increasing reliance on computer systems and digitalization, the wide usage of Internet for exchange of services and information, access to wireless networks that provide the channels for information flow, the growth of “smart” devices that link up users and services, including smartphones, televisions and many tiny devices as part of the Internet of Things (IoT). Apart from these, more disruptive developments of Bots, Malware, Bitcoins, Darknet, DeepWeb, Ransomware etc and large-scale usage of Big data, Cloud technology, Robotics, Blockchain etc are posing innumerable challenges.

2. In today’s world, any government, industry, society, academia and even individuals conducting transactions through the internet can be exposed to potential threats to both hardware and software. Specifically, government transactions of finance, policies, communication and documentation, e-governance, management, socio-security, census, defence, trade and commerce and many other functions are carried out digitally and are on open/closed networks. Similarly, industry’s commercial activities, business, investors, share-holders, business transactions, orders and deliveries, logistics management, inventory, banking, insurance, travel, health and hospitals, hospitality and many other activities are digitalized and transacted on networks. Academia also has created digital class-rooms, digital teaching repositories, examinations, administration, enrolment and operations and many other operations in digital mode and on networks. Citizens and individuals access most services – banking, postal, e-commerce, travel, hospitality, health, schooling and many other services on the net. In fact, citizens have a lot of their personal data on the networks and internet through emails, records, family history and images and many other personal material on internet. **THUS, SECURING AND PROTECTING, ON A CONTINUOUS BASIS, THESE GOVERNMENT/INDUSTRY/ACADEMIA/CITIZENS DATASETS; NETWORKS; INFRASTRUCTURE; SERVICES; DEVICES etc becomes critical and important.**

3. Karnataka has a progressive IT environment – both in the public and private space. The IT penetration in the state is very high. Karnataka is an established leader of e-Governance and leading the country in m-governance and g-governance – number of government services are online; Aadhar data is critical for services; banking platforms are large; insurance systems are intensively sued; manufacturing and education services are wide and important. Karnataka is having the right eco-system for being at the front and leading Cybersecurity actions in India – with the large IT eco-system and also a progressive IT-oriented government in the state. Hence, it is only obvious for
Karnataka to develop a comprehensive and in-depth cyber security policy, provide impetus to cybersecurity technology and applications development and enabling state-wide security of our cyber eco-system.

4. KJA has recognized the importance and relevance of cybersecurity for Karnataka and Indian society and has discussed the associated issues and challenges in the 7th meeting of KJA held on September 7, 2017 and also, in more details, in the 4th KJA-Technical Committee meeting held on November 28, 2017.

5. KJA envisages that a Karnataka Cybersecurity Vision be outlined as a comprehensive short- and long-term vision on Cybersecurity and define a roadmap of technological development, systems implementation and applications development, policies, education and research and citizen awareness in the state. As part of this vision, the Karnataka must implement a fully operational State Cyber Command Centre – to make Cybersecurity a top-attention and bring mission orientation. Such a Vision can be implemented by Government of Karnataka involving industries, academia and civil society.

6. To prepare the Karnataka Cybersecurity Vision, KJA constitutes an expert Task Group with following Membership:

   - Prof N. Balakrishnan, Honorary Professor, IISC    Chair
   - Prof S Sadagopan, Member, KJA/Director, IIIT-B   Co-Chair
   - Dr Sanjay Bahl, DG, Indian Computer Emergency Response Team  Member
   - Principal Secretary, IT/BT Department, GOK  Member
   - Dr Mukund Rao, Member-Secretary, KJA  Member
   - Mr Sanjiv Kovil, CTO Wipro  Member
   - Mr Ananth Krishnan, CTO TCS  Member
   - Prof S Raghunath, IIMB  Member
   - Prof Ramakrishna, Professor, NLSUI, Bengaluru  Member
   - Prof V Sridhar, Professor, IIIT-B  Member-Secretary
   - Dr Jayashri, SRA, KJA  Convenor

7. The overall goal of the Task Group is to prepare the Karnataka Cybersecurity Vision by addressing all aspects of data, systems, network, services and include government, industry, academia and citizens. In specific, the Task Group may, amongst other aspects, address the following:

   - study the global trends of cyber-security and best practices – specifically the possible future scenario in cybersecurity;
   - broadly outline possible threats to the IT eco-system in Karnataka;
   - study, review and assess possible technology and solutions development for cybersecurity – especially in state and Indian industry;
   - training and capacity building, skill development in cybersecurity – specifically in government and in public domain;
   - including cybersecurity into education and research system in the academic sector of the state with focus on institutions of advanced Centres for Excellence in Cybersecurity;
7.6. broadly identify policies required for cyber-security – mainly for building resilience to cyber-attacks and also for preparing a SOP for dealing with cyber-attacks;
7.7. look at legal and policy measures in future for cyber-security
7.8. configure a Command and Control Centre for Cybersecurity in Karnataka that can envisage, detect, mitigate and provide solutions for cyber-security.

8. Towards preparing the vision, the Task Group may undertake wide consultations across the state and holistically study all aspects of cybersecurity. The outcomes can then be internalized by the Task Group into a Vision Document. Once the report is developed by the Task Group it may be presented to KJA for formal endorsement/approval. The Vision recommendation can then be formally submitted by KJA to Government of Karnataka (GoK) for implementation actions.

9. Co-Chairs of the Task Group, in discussion with Member-Secretary, KJA, may co-opt any other experts to the Task Group, as required.

10. Specific budget will be approved/earmarked by KJA for the KJA Task Group activity. The expenses of the Task Group would be met from this approved budget of KJA. For administrative purposes, the expenses for meetings, any travel/fees/honorarium and any other meeting expenses etc. could be met from KJA funds, as per KJA procedures, allocated for the Task Group activities. Funds related to this activity will be expended upon approval of Chairs of Co-Chairs of Task Group and as per procedures of KJA.

11. The term of the Task Group will be for a period of 12 months from the date of issue of the office of this order.

12. This order is issued after consultation with IT/BT Department and with the approval and under authority of Chairman, KJA.

(Member-Secretary, KJA)

To,

All Members of KJA TG on Karnataka Cyber Security Vision

Copies for information to:

- All Members of KJA
- Chief Secretary of Karnataka
- Additional Chief Secretary, IT/BT
- Principal Secretary, Dept. of Higher Education
- Personal Secretary to Hon’ble Minister for IT/BT – with a request to bring this to the kind notice of Hon’ble Minister
Sub: KJA Task Group on Karnataka Cybersecurity Vision – Inclusion of Mr. Prakash Baskaran and Commander Preet Paramjit Singh


- The TG on Karnataka Cybersecurity Vision will now have the following members:
  
  o Prof N. Balakrishnan, Honorary Professor, IISC - Chair
  o Prof S Sadagopan, Member, KJA/Director, IIIT-B - Co-Chair
  o Dr Sanjay Bahl, DG, Indian Computer Emergency Response Team - Member
  o Principal Secretary, IT/BT Department, GOK - Member
  o Dr Mukund Rao, Member-Secretary, KJA - Member
  o Mr Sanjiv Kovil, CTO Wipro Limited - Member
  o Commander Preet Paramjit Singh, Technology Head, Special Projects & Cyber Resilience, TCS - Member
  o Prof S Raghunath, IIMB - Member
  o Prof Ramakrishna, Professor, NLSUI, Bengaluru - Member
  o Mr. Prakash Baskaran, Founder & MD, SecurelyShare - Member
  o Prof V Sridhar, Professor, IIIT-B - Member-Secretary
  o Dr Jayashri, SRA, KJA - Convenor

- This amendment order issues with the approval and under authority of Chairman, KJA.

(Mukund Rao)
Member-Secretary, KJA

To,
  TG KCSV Chair, Co-Chair and Members

Copies for information to:
  Chairman, KJA and All Members of KJA
  Chief Secretary of Karnataka
  ACS, Department of Higher Education