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23rd Annual General Body Meeting held on 19th October, 2019
CPE Meeting held on 30th November, 2019
Intro Seminar held on 9th November, 2019
Dear Members,

Greetings!!

Wish you all a very Happy & Prosperous New Year 2020 !!

Thank you all for your continued support throughout the last year 2019, was an eventful year for us. ISACA Bangalore Chapter reached a major milestone approaching 1500 members, which would not have been possible without all of your support, thank you once again. Let us continue the momentum in 2020 and hope to see you all in upcoming Chapter events and request your active participation.

I am sure by this time you would have renewed your membership and your certification/s along with submitting the required CPEs. If not done already, requesting to renew to retain your member level in 2020, keep your certification/s in good standing and continue receiving the member benefits.

As we enter 2020, it is time to prepare for our future! ISACA released new research looking at the Next Decade of Tech: Envisioning the 2020s, based on survey findings from more than 5,000 global technology professionals, looks ahead to the major shifts in technology we are likely to see in the next decade. View the Analysis and presentation of Key Findings at http://www.isaca.org/info/next-decade-of-tech-envisioning-the-2020s/index.html

The New Engage platform at https://engage.isaca.org/homeis very engaging. Log in and join a community to share best practices, exchange ideas and connect with professionals around the world. Connect and collaborate with like-minded professional on topics of mutual interest and share your real-world experiences.

We are also live on Engage Platform. You can now keep a track of events and updates of your local chapter by engaging at https://engage.isaca.org/bangalorechapter/home

We continue conducting weekend review classes very successfully at the chapter office for all 4 certifications – CISA, CISM, CRISC & CGEIT for the exam aspirants helping them achieve their career aspirations. Encourage your friends and colleagues to attend these classes which will benefit them for a faster learning.

As always, we solicit your active participation in the chapter’s various events and initiatives including monthly CPE meetings, Newsletter article contribution, Review Classes for aspiring students and more.

Regards,

SATISH KUMAR DWIBHASHI, CISA, CISM, CRISC, CGEIT
President
Message From the Vice President

Dear Members,

Greetings!!

Wishing you and your family a very Happy and a Prosperous New Year 2020!!!!!!

We have successfully completed the 23rd Annual General Body meeting (AGM) the new EC (Executive Committee) has been elected to handle the responsibilities for the new term 2019-20.

As a first step, I would like to check and remind you of renewing your membership if you are yet to renew the same. You are aware of the series of events that we would be hosting through the year and the benefits that you would receive as an ISACA Member. We also request you to submit the CPE points to keep your certifications in an active status. Make use of the opportunities that you would get to learn and increase your networking with your peer groups in the industry along with enhancing your knowledge.

We have successfully completed many batches of review classes at the chapter office for all 3 certifications – CISA, CISM and CRISC helping members collaborate and prepare for the examinations and will continue the same through the year. We have also completed Intro-Seminars and planning to conduct many more along with visiting various organizations and increasing the awareness sessions / dedicated intro seminars. We request you all the reach out to us and provide us with the opportunity to help organize these dedicated awareness / intro seminars in your respective organizations.

2018-19 was a very successful year for ISACA Bangalore Chapter with loads of accolades and also increase in the member benefits. We witnessed an all time high in various factors. We want to carry the momentum for this year and all future years. We would be succeeding in those only with your support and hence requesting each one of you to participate and contribute in any possible manner that you could and help us to serve your better.

We solicit your active participation in the Chapter events and initiative including the monthly CPE, Newsletter articles, review classes, intro-seminars and various conferences including the Annual Conference.

Looking forward to meeting you at the next event!

Regards,

VELMURUGA VENKATESH, CRISC, COBIT-5(F), ISO 27001 LA, ISO 31000 CRM
Vice-President
Message From Secretary

Dear Members,

Greetings and wishing you all a very Happy and a Prosperous New Year!!!

The year 2019 had been a wonderful year with many events and we look forward to a year with a lot more events and new initiatives to help our chapter with all your support.

You must be aware that our cabinet approved the Privacy bill and Lok Sabha refers to joint House panel, a lot of interesting debate will happen in year 2020 around India’s privacy bill. I am sure all security professional will be eagerly waiting for passing the bill in lower and upper house of our parliament.

We have successfully completed two batches of review classes for CISA, CISM and CRISC and one intro seminar at Trinity Isle Hotel, Bangalore. We have an aggressive plan to do our intro seminar at many corporate premises to promote ISACA’s prestigious certification. Bangalore chapter also aggressively looking for new trainers for all certification with the support of our chapter accredited trainers. We are sure all the training sessions will be delivered efficiently and effectively for CISA, CISM, CGIET and CRISC.

We are improving the membership renewal compared to the previous year and I believe by now you must have renewed ISACA membership and the certification by the required CPEs to continue getting the membership benefits.

This year we will be doing a lot of focus on to digitize the chapter program using ISACA HQ engage portal and events and we will keep you updated on the progress of these initiatives.

As always, we solicit your active participation in the chapter’s various events and initiatives including monthly CPE meetings, newsletter articles contribution, review classes for aspiring students, etc..

Regards,

RAJASEKHARAN K R, CISM, PMP, ITIL (E), CSM, SAFe, ISO 27001 LA
Secretary
Chapter Highlights for the period from October to December 2019

23rd Annual General Meeting of ISACA, Bangalore Chapter held from 5.00 PM to 8.00 PM on Saturday the 19th October, 2019 at Hotel Trinity Isle, Swastik Circle, 139, SC Road, Seshadripuram, Bengaluru, Karnataka - 560 020 to transact the following business:

Agenda

1. To approve the AGM Minutes of 2018
2. To consider and adopt the 23rd Annual Report
3. To consider and approve Audited accounts for the year ended 31st March 2019
4. To appoint statutory auditors for the year 2019-2020 and fix their remuneration

To Elect Executive Committee Members (EC members) for the Executive Committee for the year 2019-20. 29 Members participated for the meeting and the event was successfully conducted.

<table>
<thead>
<tr>
<th>SL NO</th>
<th>NAME</th>
<th>ISACA ID</th>
<th>ROLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mr. Satish Kumar Dwibhashi</td>
<td>303951</td>
<td>President</td>
</tr>
<tr>
<td>2</td>
<td>Mr. Velmuruga Venkatesh</td>
<td>608093</td>
<td>Vice President</td>
</tr>
<tr>
<td>3</td>
<td>Mr. Rajasekharan K R</td>
<td>442484</td>
<td>Secretary</td>
</tr>
<tr>
<td>4</td>
<td>Ms. S Vijaya Vanitha</td>
<td>658003</td>
<td>Treasurer</td>
</tr>
<tr>
<td>5</td>
<td>Mr. T R Rajesh</td>
<td>220727</td>
<td>Director - Programs</td>
</tr>
<tr>
<td>6</td>
<td>Mr. R S Upadhya</td>
<td>425473</td>
<td>Director - News Letter</td>
</tr>
<tr>
<td>7</td>
<td>Mr. Arun Kumar Hallur</td>
<td>772975</td>
<td>Director - GRA</td>
</tr>
<tr>
<td>8</td>
<td>Mr. Ganesan Ramani</td>
<td>894811</td>
<td>Director - Membership &amp; Marketing</td>
</tr>
<tr>
<td>9</td>
<td>Mr. Nitin Gaur</td>
<td>713209</td>
<td>Coordinator - CISA</td>
</tr>
<tr>
<td>10</td>
<td>Mr. Santha Kumar N</td>
<td>1033250</td>
<td>Coordinator - CISM</td>
</tr>
<tr>
<td>11</td>
<td>Ms. Suma K V</td>
<td>1110773</td>
<td>Coordinator - CRISC/CGEIT</td>
</tr>
<tr>
<td>12</td>
<td>Mr. S Krishnaswamy</td>
<td>271683</td>
<td>Director - SIG &amp; Research</td>
</tr>
<tr>
<td>13</td>
<td>Mr. Anand D</td>
<td>601292</td>
<td>Director - Web Services</td>
</tr>
<tr>
<td>14</td>
<td>Mr. Deepak GB</td>
<td>953104</td>
<td>Director - Academic Relations</td>
</tr>
<tr>
<td>15</td>
<td>Mr. Sridhar S</td>
<td>89120</td>
<td>Immediate Past President</td>
</tr>
</tbody>
</table>
1. ‘Introductory Seminar’ - conducted to learn how aspirants can take their career to the next level.
   
   **Venue:** Trinity Isle Hotel, Bengaluru, Karnataka 560 020  
   **Date:** 9-Nov-2019 (Saturday)  
   **Time:** 5:00 PM - 7:00 PM

   The Chapter President, Mr. Satish Kumar Dwibhashi, Vice President, Mr. Venkatesh Velmuruga and CISAC/CISM/CRISC/CGEIT Co-ordinators have created an awareness on the ISACA Course Certifications to participants.

   34 aspirants participated for the event and created an awareness on the following ISACA Certification courses.

   The Program was well appreciated by all participants.

   **CISA Certification:**
   “World-renowned as the standard of achievement for those who audit, control, monitor and assess information technology and business systems.”

   **CISM Certification:**
   “Promotes international security practices and recognises the individual who manages designs, and oversees and assesses an enterprise’s information security.”

   **CGEIT Certification:**
   “Recognises a wide range of professionals for their knowledge and application of enterprise IT governance principles and practices.”

   **CRISC Certification:**
   “The only certification that prepares and enables IT professionals for the unique challenges of IT and enterprise risk management”

   **CyberSecurity Nexus (CSX):**
   “New program designed for the most ambitious cyber security professionals, empowering them to elevate their work, take control of their career paths and earn their place amongst the best.”

2. An Intro Seminar was conducted at Danske IT, Bengaluru for its 20 employees who are CISA aspirants.

   **Date:** 6-Dec-2019  
   **Time:** 1:30 PM

   The Chapter President, Mr. Satish Kumar Dwibhashi has represented the Chapter and imparted an overview on all ISACA Certification Courses. The Program was well received and appreciated by the team of Danske.

   **CPE Meetings:**

   1. **Topic:** “Robotic Process Automation (RPA) - (RPA Awareness, RPA Implementation & RPA Business Analysis)”
      
      **Venue:** ISACA Bangalore Chapter Office  
      **Date:** 30-Nov-2019 (Saturday)  
      **Time:** 5:30 PM - 7:30 PM

      **Session Abstract:**
      The Introduction to Robotic Process Automation (RPA) and the speaker covered the RPA Implementation, RPA Business Analysis along with RPA awareness.

      **Speaker: Mr Ramanathan Subramaniam**

      **Speaker profile:** Ramanathan is an Independent Consultant and

      - A result-oriented professional with 29 years of versatile experience with 14+ years of onsite exposure across diverse organizational domains in the USA, Middle East & Africa.
      - Practicing focused consulting around ERP & IT, Process, Change, Assessments & Audits and RLP.
      - Vast exposure in 125+ IT projects/ implementations encompassing ERP, Healthcare, Retail & Distribution, Manufacturing, SCM, Automations and Distilleries and FMCG as well in Retail Loss Prevention (RLP)
      - Engaged in more than 200+ RFP/BID/Pre-sales assignments and conducted numerous sessions/training.
      - Managed team size over 150+ covering all levels and skills and focal point to get business worth in millions $

      40 Members participated for the program. 2 hours CPE points granted to all participants.

      The meeting was well received and appreciated by all.
**Supported Events:**

A 5 day ISO 27001:2013 based Lead Auditor training course organized by Certification Partner Global (formerly known as ISC Global) as per the following details:


**Training Course Overview**

This ISO 27001 Lead Auditor training course will enable participant to conduct effective audits in any auditing situation. It provides participant with the skills to plan, conduct, lead and report audits for first party (within participant’s own organization), second party (suppliers) and with third party organizations. It will provide participant with the knowledge to understand implement and evaluate ISMS. It also assists participant in understanding the interpersonal and communication skills required for Auditors and Audits team leaders. The course involves a high level of participant involvement through discussions, role plays and case studies that are used to reinforce the concepts and to provide practice in applying them. The RABQSA International brand name has changed and they have renamed to Exemplar Global. RABQSA is now formally known as Exemplar Global.

**Venue:** HOTEL PAI VICEROY, 1504, 16th Cross, 9th Main, 3rd Block, Jaya Nagar, Bangalore, Karnataka - 560 011.

**CPE Hours 35 points as per ISACA Guidelines**

**Instructor:**

Exemplar Global Accredited Instructor - Mr. K. Ganesh


**Certificate of Successful Completion**

On successful completion of the course, the ISACA participants are be awarded “Lead Auditor Certificate of Attainment on ISO 27001:2013” with Exemplar Global logo based on modules. Also a substantial discount was given for the ISACA Participants against the original registration fees.

**ISACA Certification Course Weekend Review Classes:**

A 4-5 weekend CISA / CISM Classes successfully conducted for 18 participants during October / November 2019.

Participants have appreciated the quality of our training.

Also commenced a 4 weekend CRISC classes on 14th December 2019 for 4 participants.

**Plans for the Quarter - January - March 2020**

1. One batch of 4-5 weekend CISA, CISM, CRISC & CGEIT review classes in February / March 2020.


3. Students Academic Relations: Planning to visit various Engineering Colleges in and around Bangalore City (PES, REVA, NEW HORIZON) for creating an awareness on ISACA Certification Courses for students there and forming of Students ISACA Committee.

4. Face to face CPE meetings & zoom web online CPE meetings will be conducted once or twice in every month.


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**Cybersecurity Nexus™ (CSX)**

CSX is designed to help fortify and advance the industry by educating, training and certifying a stronger, more skilled workforce that can keep organizations and their information secure - now and in the future.

*Courtesy:* [https://cybersecurity.isaca.org/csx-nexus](https://cybersecurity.isaca.org/csx-nexus)
ECONOMICS OF CYBERSECURITY

Abhisht Pandey, CISA, CISM,
Chief Manager, Security Operations Centre, Corporate Office: Syndicate Bank
Mob: 9331636139
Email: abhishtpandey@gmail.com

ECONOMICS OF CYBERSECURITY

Threats of cybersecurity increase by the day, so are the costs to counter them. There are various schools of thought which govern how cybersecurity can be addressed in Board Rooms where Return on Investment is the key attribute for any business decision.

While preparing this article I have used “Cybersecurity” and “Security” terms interchangeably.

Can we escape the conundrum of cybersecurity budgets?

Prior to 1990, when the systems of individual organisations were behind closed doors and access to outside world was minimal, the answer to the questions could be YES.

With advent and use of internet the issues became complex. There can be very clear demarcation between times when internet was not predominantly used for business and when it became a critical backbone riding the business.

Today Information Technology divisions in an organisation are under tremendous pressure to realign their business strategies for digital marketplace. The financial institutions are most affected. There is a race going on for Tech companies becoming Banks and Banks vying to be Tech companies. The product and service delivery models are evolving at a fast pace and putting a lot of stress on the systems which are heavily loaded with inertia of time and legacy.

Regulators have also taken very strong note of the same, owing to the increased risk by digitization, ecosystems are becoming more and more real time.

In view of above preparing a Cybersecurity budget is a tight rope walk, wherein in a balance between business objectives and Cybersecurity requirements are hard to achieve.

So, that we cannot escape solving this jigsaw puzzle of Cybersecurity budgeting.

In further sections, this article shall attempt to simplify the pieces of the puzzles, so that we may arrive at a better understanding about the economics of Cybersecurity.

Economics of Cybersecurity can be understood through 3 broad parameters:

<table>
<thead>
<tr>
<th>COST OF SECURITY</th>
<th>SECURITY LEVEL</th>
<th>BENEFITS OF SECURITY</th>
</tr>
</thead>
</table>

COST OF SECURITY

Let’s now breakdown the various costs related to security:

- Direct and Indirect costs of Cybersecurity:

  The Direct costs of Cybersecurity involve purchasing, installing and administering Cybersecurity infrastructure. It also includes the cost of Hiring Cybersecurity staff, which is a tedious and difficult process to bring onboard and retain.
The Indirect costs shall involve time taken to recover from a Breach by the organisation and staff. As patching of systems is a critical activity, the downtime of applications and associated business disruption is also an indirect cost.

With rapid changes in technology, retraining and re-skilling is also an indirect cost associated with Cybersecurity.

- Fixed and Variable Costs of Cybersecurity:

There are activities like setting up an IDS/IPS, Privilege Identity Management or Firewall, which directly do not have any business objective alignment are the fixed costs.

But when the business grows more individual licenses are required for users for applications like PIM, that becomes a variable cost. It is termed as variable because it has direct relation to business growth to meet the corporate objective. Furthermore, issuance of security tokens for accessing alternate delivery channels for customers also is a part of variable cost for Cybersecurity.

Further the Cybersecurity costs can be bucketed on following basis:

- **One Time Costs:**
  The costs involved towards one time procuring and setting up security infrastructure.

- **Recurring Costs:**
  The costs towards security hardware, software upgrades, cost of human capital, the recurring costs associated with Cybersecurity.

- **Sunk Costs:**
  From the Cybersecurity perspective costs like trainings, user awareness and even distribution of tokens are sunk costs. The costs are incurred, without any surety that any of the activity will quantifiably help the Cybersecurity cause.

**SECURITY LEVEL**

Herein, we intend to find the security level of an organization, so as to connect the dots from “Cost of Security” to “Benefits of Security”. One of the precepts of conducting any empirical research is the ability to capture numerical representations (data) of phenomena and test relationships among them. To do this, we need reliable and accurate measures of phenomena that cannot be measured directly.

Cybersecurity needs to be measured in a similar way. There are no clear/ direct parameters for defining Cybersecurity levels in an organization. In statistical terms security is a kind of “latent construct”.

We can only measure indicators or metrics that reflect different aspects of the latent construct, like an IQ test does for intelligence. Together, the metrics give us an estimation of the security level.

There are Deterministic indicators and Stochastic indicators of Security level.

Deterministic indicators mean where the metrics can be quantifiable like depicted in table below:

<table>
<thead>
<tr>
<th>Deterministic indicators</th>
<th>Values for reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>User awareness</td>
<td>On the desk tests to measure knowledge</td>
</tr>
<tr>
<td>Virus scanners</td>
<td>Virus count detected, deleted or quarantined</td>
</tr>
<tr>
<td>So.ware vulnerabilities</td>
<td>Number of vulnerabilities detected in Vulnerability Assessment</td>
</tr>
</tbody>
</table>
Stochastic indicators mean the random indicators from which concretely one cannot derive any information. The examples are as stated below:

<table>
<thead>
<tr>
<th>Stochastic Indicator</th>
<th>Guidance derived</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compromised machines</td>
<td>Failure of physical and logical controls.</td>
</tr>
<tr>
<td>Phished credentials</td>
<td>Email security issues, user awareness less, data exfiltration</td>
</tr>
</tbody>
</table>

Furthermore, we can also understand the various metrics used for assessing levels of cybersecurity and can be grouped into 4 parameters:

a) Controls:

Controls are the measures you put in place to mitigate risk. They are the most critical aspect of any system design and implementation.

Controls should never be an afterthought, but at the centre since the ideation of any project.

Controls can be used to gauge the security level; they may be broadly classified as:

<table>
<thead>
<tr>
<th>Controls</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>Doors, Locks, Channel etc.</td>
</tr>
<tr>
<td>Organizational</td>
<td>Incident response Team, Impact assessment teams etc.</td>
</tr>
<tr>
<td>Procedure</td>
<td>Policy documents and policies in place</td>
</tr>
<tr>
<td>Technical</td>
<td>Firewall configurations, data encryption etc.</td>
</tr>
</tbody>
</table>

b) Vulnerabilities:

Vulnerabilities stand for weakness in the controls that could be leveraged by a certain type of attack.

Vulnerabilities can be of two types and different tools/processes can be deployed to find them:

<table>
<thead>
<tr>
<th>Vulnerabilities</th>
<th>How to find</th>
</tr>
</thead>
<tbody>
<tr>
<td>Known vulnerabilities</td>
<td>Vulnerability scanners, CERT-In, NCIIPC and Industry security alerts</td>
</tr>
<tr>
<td>Unknown vulnerabilities</td>
<td>Penetration testing, Red Team exercise and Threat hunting</td>
</tr>
</tbody>
</table>

c) Incidents:

An incident is any event that causes, or may cause a breach of information security in respect of availability, integrity and confidentiality. Examples of such incidents could be unauthorized access to information system, disruption of data, denial of services/availability, misuse of system resources, computer viruses etc.

Any violation of organisation’s information security policy shall also qualify as an incident.

In case of an incident the controls put in place meet actual incidents rather than hypothetical situations.

Some incidents are easy to detect through automated tools monitoring tools. There are evolved tools, if properly configured, can help in finding out even the zero days attacks. We need to focus on constantly revisiting and validating configurations in line of current threat vectors and inputs form external and internal threat intelligence sources.

In recent past we have seen that multiple attacks have gone unnoticed for longer period of time (years in some cases). Mean Time to Detect (MTTD) and Mean Team to Respond (MTTR) must be reduced for effective incident management.
Organisations need to put in place specialized incident management professionals to act in event of an incident strike.

Robust incident management depicts cyber security level, ensures Cyber resilience of an organization in face of threats.

d) Prevented Losses:

In Cybersecurity mapping of incidents to losses is very hard. One of the reason being losses like reputational loss which are long term losses to the organisation.

More so, with regulations like GDPR in place, data loss/ theft can effect heavy regulatory fine on organisations.

Currently there are no clear measurement techniques for near-miss events.

It can be studied that number of incidents has reduced due to failed attacks or fewer attacks. This can be taken as a metric to gauge performance from incident perspective.

BENEFITS OF SECURITY:

The benefits of having a robust Cybersecurity in place are stated below:

Having a strong security setup entails the following Business benefits:

a) Direct Business Impact:

As the businesses today are working in the wild, i.e. internet space, a strong security provides them a footing to move ahead with their business objectives.

b) Indirect Business Impact:

Security attracts customers. Especially in Financial and Healthcare industries where monetary and Personally Identifiable data is heavily in use, having a robust security helps allay fears of your customers. Building trust is the key attribute for any successful enterprise.

A more secure company will attract less premium on Cyber Liability Insurance procurement.

c) Supports Business Strategy:

Every business strategy focuses on consolidation and growth. Growth and scalability can only be achieved if the security of enterprise is sound. Customer acquisition cost can be heavily impacted, if the enterprise demonstrates its strong security posture.

d) Compliance:

Compliance is a huge concern for all regulated industries. Keeping in place a safe and sound security environment prevents from regulatory financial fines and also the reputational risk associated with it.

To further understand the security investments we shall discuss the cost and benefit charts:

Mostly how much may be invested in security is defined by general investment theory.

The Chief Information Security Officers have to learn the language of Chief Finance Officers to push through and justify budgets for Cybersecurity.
Return on Security Investments (ROSI):

\[
\text{ROSI} = \frac{\text{(Annual Loss Expectancy X Mitigation Ratio)} - \text{Cost of Solution}}{\text{Cost of Solution}}
\]

For example:
An enterprise ABC LLP, is considering investing in a Anti-DDoS solution. Annual rate of Occurrence(ARO) of DDoS is 10 and Single Loss Expectancy is Rs.50,000. Cost of the proposed Anti DDoS Solution is Rs.1,00,000 and it will confirms of stopping 80% of DDoS attacks. Then ROSI shall be:

\[
\frac{(500000 \times 0.8) - (100000)}{100000} = 300\%
\]

Herein it can be projected that ROSI is highly favourable for a purchase of Anti-DDoS solution.

There are many more analytical models available to study the impact of security investments like Gordon Loeb Model and Preventable Loss- random variable models etc.

We need to approach the Cybersecurity issue with a 360° view and ensure that the economics work hand in hand with the cause of enhancing security postures of our business.

This will ensure making a more safe, sound and secure eco system.

References:

- [https://courses.edx.org/](https://courses.edx.org/) - Course on Cyber Security Economics
- [https://en.wikipedia.org/](https://en.wikipedia.org/)

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**YOUR ISACA BANGALORE CHAPTER WANTS TO PURCHASE NEW OFFICE**

**Floor Area of 1200 - 1500 Sq. ft. Office Space**

Parking facilities preferred

**Location upto 2 kms of any of the Bangalore Metro Stations**

**Contact Details**: building@isacabangalore.org
InfocTy Auditor

PDPA 2018

Srikanth Seshadri, Mob: +491630067589 / +4915127914799, Email: dssrikanth@gmail.com

Professional Overview


Has 20 years of experience in the areas of organization process improvements, implementing industry best practices internally and consulting for customers across the globe. Performed roles of program management, account management, process management for the organization.


Plan, schedule and conduct customer surveys, consolidate, analyze results and provide recommendation to management.

Educational Qualifications:
- Bachelor of Engineering (EC)
- MBA (Finance Management)
- MS – Quality Management

Professional Qualifications, Associated memberships:
- Member of SPIN, Bangalore - ISO 9001:2008 LA - Six Sigma Black Belt
- Certified Information Systems auditor (CISA) - ISO 27001:2013 LA - Consulting course
- RUP certified - ITIL Foundation

Expertise in areas of
- Information Security
- Risk Assessments
- Account Management, project management
- IT service Management
- Quality Management System
- Customer surveys, feedback analysis, reporting
- Business continuity
- Knowledge of GDPR

Salient Points

Participants

<table>
<thead>
<tr>
<th>GDPR</th>
<th>PDPA</th>
<th>Penalty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Controller</td>
<td>Data Fiduciary</td>
<td>5 Cr Indian Rupees or 2% of worldwide turnover, which ever is higher</td>
</tr>
<tr>
<td>Data Processor</td>
<td>Data Processor</td>
<td></td>
</tr>
<tr>
<td>Data Subject</td>
<td>Data Principal</td>
<td></td>
</tr>
</tbody>
</table>

Territorial Scope - India

- Not applicable
  - For anonymized data, data processed by a natural person is purely domestic, personal in nature
  - Data required by Law, journalistic purposes
  - Research, archiving or statistical purpose as approved by authority
  - Manual processing by small entities
    - Turn over - 20 Lakhs.
    - Processed personal data - 100 data principals

Points to Note

- Significant data fiduciaries - notified by the authority - based on the factors like
- Volume, sensitivity, turn over, risk of harm resulting in any processing, use of new technologies
- DPIA mandatory
- Grievance redressal by data fiduciary
- Restrictions on cross border transfer
  - 1 copy of personal data in India, central government to notify critical data that has to be processed in India.
  - All personal data processed outside India is based on standard contract
- Data Audits
  - Annual Audit by an Independent auditor, Auditor will have civil penalties for negligence
  - Data Auditor - data trust score as a rating to data fiduciary
  - Criteria for data trust score will be provided by the authority
- Inquiry and audit by thy authority on data fiduciary
Using AI as a Defensive Tool

Larry G. Wlosinski, CISA, CISM, CRISC, CAP, CBCP, CCSP, CDP, CIPM, CISSP, ITIL v3, PMP

In a previous Journal article, I wrote about artificial intelligence (AI) and talked about the massive amount of digital data that are being accumulated, how new digitally oriented technology is affecting us, the sources of online data (e.g., personal, private), how data are used and how a career in AI can be useful to those interested in developing the skills to use AI.

In my most recent Journal article, I look at AI from an information security and privacy perspective. The article outlines AI concerns, threats and risk factors as a way of understanding AI as a cyberthreat. Once we have an understanding of the threat, we discuss ways to protect the cyberdata (and personal privacy). Preventive measures, protective controls, and detective practices and tools are presented to help understand how to manage the threat by using AI and other countermeasures.

The intent of this article is twofold. The first aim is to enlighten the security and privacy community that we need to use AI for good, and the article also aims to provide ideas and advice to those who have the means to use AI. By not using the speed of AI as a monitoring and protective tool, computing devices on the Internet (both directly connected and wireless) are becoming targets of exploitation by extremely fast and self-directed bots and botnets.

AI can be programmed as a defensive tool that can respond in real-time to find and prevent ransomware, find malware and stop cyberattacks, find the originating location of cyberthreats (and software), compile evidence of criminal intent (and implementation) for use by courts of law, and more. We need a tool that can stop malware from infecting the computing devices connected to the Internet, and in turn deprive the criminals a source of income.

I encourage you to read the article and share any insights, knowledge and ideas you may have on using AI to combat cyberthreats to security and privacy, and malicious and criminal activities.

Innovating Yourself as an IS Auditor

K. Brian Kelley, CISA, CSPO, MCSE, Security+

As new technologies are developed, we have to stay up to date with them. More so than almost any other practitioner interfacing with information technology, auditors have to work hard at continual education. It is not just the technology, though. We are also seeing orders of magnitude more data. More data to process means we have to be more efficient at sifting through those data to ensure we can protect our organizations. So how do we stay up with what is current?

First and foremost, we need to use technology for our benefit when we can. Data is a big deal, but as it has exploded, it is a big deal for just about everyone. That means companies are investing a lot of capital in developing systems to handle the reams and reams of information we have at our fingertips. These systems are able to spot trends and exceptions both. Why should these solutions be limited just to the folks doing financial forecasting? We can use them, too. That is a key attitude for us to take: When technology helps us, we have to come up to speed on it and leverage it for all its worth.

Second, speaking of learning new technology, we are being exposed to new ideas, new protocols and new standards all the time. We have to set aside the time to understand all of these new things. It is not practical to try to learn any of them in great detail. However, we have to understand them well enough to understand what they provide, where they have issues and what they should actually be used for. If we are relying on what we learned just 5 years ago, some of our knowledge is already out of date.

Finally, we have to understand that with the changes we have in technology, whole disciplines may be completely upended. I can remember a time when organizations were on the Internet and firewalls were a very uncommon thing. Now we are in an era where we know the firewall is not enough. These concepts are more abstract than a protocol definition. However, it is just as important that we stay up-to-date in these concepts as well.

All of this adds up to continually innovating yourself to maintain your knowledge and skills. The good news is that if you keep up, you will never be bored. Technology is changing at a break neck pace. There is always something new to learn and pick apart!

Courtesy: https://www.isaca.org/Journal/Blog
ISACA Bangalore Chapter
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Venue: Chapter Office-Address mentioned underneath

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4. DESIGNATION: .........................................................................................................................................................

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The dues amounts on this application are valid 1 August 2019 through 31 May 2020.

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The dues amounts on this application are valid 1 August 2019 through 31 May 2020.
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  - [ ] Fewer than 50 employees
  - [ ] 50 - 149 employees
  - [ ] 150 - 499 employees
  - [ ] 500 - 1,499 employees
  - [ ] 1,500 - 4,999 employees
  - [ ] 5,000 - 9,999 employees
  - [ ] 10,000 - 14,999 employees
  - [ ] 15,000 or more employees
  - [ ] Not applicable

- **Size of IT audit staff (local office)**
  - [ ] 0 individuals
  - [ ] 1 individual
  - [ ] 2-5 individuals
  - [ ] 6-10 individuals
  - [ ] 11-25 individuals
  - [ ] More than 25 individuals
  - [ ] Not applicable

- **Size of information security staff (local office)**
  - [ ] 0 individuals
  - [ ] 1 individual
  - [ ] 2-5 individuals
  - [ ] 6-10 individuals
  - [ ] 11-25 individuals
  - [ ] More than 25 individuals
  - [ ] Not applicable

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- [ ] Not applicable
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Title

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☐ Insurance ☐ Legal/Law/Real Estate
☐ Manufacturing/Engineering ☐ Mining/Construction/Petroleum/Agriculture
☐ Not applicable ☐ Pharmaceutical
☐ Public Accounting ☐ Retail/Wholesale/Distribution
☐ Technology/Services/Consulting ☐ Telecommunications/Communications
☐ Transportation ☐ Utilities
☐ Other

Level of education achieved (indicate degree achieved, or number of years of university education if degree not obtained)
☐ one year or less ☐ two years ☐ three years
☐ four years ☐ five years ☐ six years or more
☐ Not applicable

Certifications obtained (other than CISA, CISM, CGEIT, CRISC)
☐ ACA ☐ CPA
☐ CAE ☐ CFP
☐ CFE ☐ CFA
☐ CGAP

Work experience (check the number of years of information systems related work experience)
☐ No Experience ☐ 1-2 years
☐ 3-4 years ☐ 5-7 years
☐ 8-9 years ☉ 10-12 years
☐ 13 years or more

Current professional activity (if not your title, please select the best match)
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☐ CAE, General Auditor, Partner, Audit Head/VP/EVP
☐ CISO/CSO, Security Executive/VP/EVP
☐ CIO/CTO, Info Systems/Technology Executive/VP/EVP
☐ CFO, Controller, Treasurer, Finance Executive/VP/EVP
☐ CIO/CTO, Info Systems/Technology Executive/VP/EVP
☐ Chief Compliance Risk/Privacy Officer, VP/EVP
☐ IT Audit Director/Manager/Consultant
☐ Security Director/Manager/Consultant
☐ IT Director/Manager/Consultant
☐ Compliance Risk/Privacy Director/Manager/Consultant
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☐ IT Auditor (External/Internal Staff)
☐ Non IT Auditor (External/Internal Staff)
☐ Security Staff
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† For student membership information please visit www.isaca.org/student
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Expiration date
Signature

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US dollar amounts listed below are for local chapter dues. While correct at the time of printing, chapter dues are subject to change without notice. Please include the appropriate chapter dues amount with your remittance.

For current chapter dues, or if the amount is not listed below, please visit the web site, www.isaca.org/chapters, or contact your local chapter at www.isaca.org/chapters.

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- **Size of IT audit staff (local office)**:
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  - 6-10 individuals
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  - Not applicable

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