

**ISACA**<sup>®</sup>  
*Trust in, and value from, information systems*  
**Bangalore Chapter**

# InfocITy Auditor

June - 2010

**CISA**<sup>®</sup>   
 CERTIFIED INFORMATION SYSTEMS AUDITOR™

## CPE - Chapter 17.4.2010



Information Rights Management - CEO Seclore Technology, Mumbai  
your Dox & Access Rights by Mr. Vishal Gupta, CEO Seclore Technology, Mumbai

## Member Meet 24.4.2010



Discussion on Exposure Draft monitoring Internal Control & IT by Mr. K.S. Shesha Prakash and Mr. Sarat C Cheg

## CPE - Chapter 21.5.2010



Topic CGEIT Orientation by Mr. Srikant Patil

## CPE - Chapter 28.4.2010



BCM Trends - Date on BCM New Technologies / Approaches New Standard links. The B.S. 25777  
Mr. Dhiraj Lal, Country Manager, BCM Institute

## Editorial.....



Dear Readers,

Risk governance is the paradigm whose dynamics are now being taken notice by all levels in the organizations, ranging from C-Suite to Board Rooms to regulators.

Irrespective of the type of industry, geography or other parameters that an Organization can find itself in, risk governance, with all the opportunities and threats it holds to the business is now pivotal to corporate governance.

Our ISACA Bangalore Chapter has always been in the forefront when it comes to finding and providing means to impart,share ,learn and inspire.

We are now organizing 13th Annual Conference on the 23rd & 24th of July '10 at the ITC Royal Gardenia Bangalore which will have international speakers from organisations at the forefront of Risk management and governance.

With delegates from a cross-section of industry and organizations, the conference promises to be filled with thought provoking and interactive sessions with ample opportunities thrown in for professional networking.

We invite all our members to participate in this prestigious event, earn CPE credits, network with your peers, Gain knowledge from an array of international speakers.

With Regards

**Sharma G C S**  
Director, News Letter

## From the President's desk...



Dear friends,

Our annual conference is just weeks away. I'd like to share what we did different this year to make this a bigger, better and more informative.

We began work very early in Jan '10 itself, finalizing the venue and was the next logical step. We then created a whole set of documentation right from sponsor invites, event brochures speaker invites etc. We then began marketing the event to potential sponsors and speakers.

Another difference this year was that we decided to think BIG and you will all see that it has made a difference in many aspects of the event. A focused core team, planning and project management has helped us to make a difference. The artifacts are what we hope to leave behind for the future committees so they too can continue to help the chapter scale new heights.

We've priced the entry on cost and we have some exciting freebies for you, registrations are open, what we now need is for you to join us and make this event a grand success,

**Jose Koshy Samuel, CISA, CISM, CISSP, MBCI, GCIH**  
President, ISACA Bangalore

## Message from Vice President....



**Dear Members,**

At the time I pen this message, we are hardly two weeks away from the 13<sup>th</sup> Annual Conference Day of the Chapter. The efforts for organizing the 13<sup>th</sup> Annual conference has taken off in the right earnest on the 19<sup>th</sup> of December 2009, when the Chapter's Executive Committee met for its third meeting of the year and decided to hold the Conference on 23-24 of July 2010. In the meeting, The ITC Royal Gardenia was tentatively decided as the venue and 'Risk Governance' was decided as the theme. The Conference committee was formed and the team has since been working in a concerted manner and has just concluded the speakers list and released the Program Schedule for both days. Target for the committee is also to release the June-2010 issue of the News Letter on the Day of the Conference. If their efforts succeed, our members would find this News Letter neatly tucked in the Conference Kit that is planned to be provided in the conference venue.

The committee sincerely hopes that you would find the News Letter relevant to the spirit of the conference and that you would enjoy reading the same.

Risk Governance has attained more prominence after the recently witnessed financial crisis in many developed countries of the world. Nearly \$50 trillion in global wealth has been lost between September 2007 and March 2009. The crisis has exposed the inherent weaknesses in the risk management system and brought to the surface - inadequate risk governance. Companies that could with stand the crisis and staved off the catastrophic losses were those that addressed the risk issues promptly and efficiently.

You would hear in the conference, cutting-edge presentations by eminent risk professionals and practitioners, industry leaders and policy makers, academicians and researchers on topics ranging from Risk Management & Compliance, Countering Botnets, and Cloud Security, implementation & challenges to a demo on zero Day exploits. The icing on the cake would be the Panel Discussion slated for post lunch on the Day Two. Happy Conferencing! Happy Networking!!

With warm greetings!!

**Natarajan K R., CGEIT, CISA**  
Hon. Vice President

## From the Secretary's Desk.....



Dear Members,

WELCOME TO 13<sup>TH</sup> KARNATAKA ANNUAL CONFERENCE  
HOSTED BY BANGALORE CHAPTER OF ISACA.

You have witnessed the elite gathering and sterling atmosphere around you. Do sit back for a thoroughly enlightening two days and be sure to go back with richer knowledge and fond memories of networking with your esteemed colleagues.

A galaxy of stalwarts from government, industry, assurance practice and academia are sharing their vast knowledge and experience with you all. At the penultimate session, a panel of distinguished professionals shall generate a consensus on the wish list of IT industry about IT security, compliance and governance to be submitted to the Prime Minister of India. We felt that as the citizens of the IT capital of India, it prevails on us to take up this task in full earnest.

As I write this letter to you all, the trends are out that the major IT services companies in India are reporting subdued performance and slow growth path. American melt down is followed by Greece melt down and may very well lead to a PIIGS (Portugal, Italy, Ireland, Greece of course and Spain) melt down. The moral of the story is that, crises are bound to happen time to time and ups and downs are bound to be there in the business cycles, whether in IT or in general. The industry should brace itself and look to face these FUD phases (fear, uncertainty, doubt) with more resilience and strength. Governments across the world would, no doubt work towards better fiscal and monetary management but we, the professionals are on the chopping block, in whatever capacity in the industry. We have to tighten our belts and go the extra mile to face the danger lurking round the corner.

The times are definitely right for the theme of the annual conference 'RISK GOVERNANCE'. We refrained deliberately from coining a phrase or a catchy tagline / slogan around the theme, since we wanted to declare that no one stand-alone aspect about risk governance is important, but the entire gamut of risk governance is to be considered, understood and be dealt with.

I invite all members to actively participate in the chapter activities as ever and in larger numbers to the mutual benefit of one and all. The keyword is enrich and be enriched. That is the objective of the chapter and more particularly this annual conference. We, the alumni of ISACA from Bangalore have come a long way in this road and will definitely go greater distances in years to come.

With warm greetings,

**Sarat C Chegu**  
Secretary

Be a CISA®/ CISM®/ CGEIT® Be in **DEMAND**.

## **FREE AWARENESS SESSION**

Date :Friday, the 31<sup>st</sup> July 2010- Time: 6.00 PM Venue: Monarch Luxur, 67, Infantry Road, Near Gem Plaza, Bangalore-5600 10

### **Dear Professional,**

We at ISACA® are always prepared to guide & mentor a professional like you who is looking for a **CHANGE**. Any organization across the globe is deeply penetrated with the need to assess risk and protect / govern the information systems deployed.

ISACA Bangalore Chapter has organized a Free Awareness Session for you to know and understand the certifications offered by ISACA. Just to brief you

*Salient Features of ISACA® USA and certifications offered*

- **ISACA®** (Information Systems Audit and Control Association) (Website: [www.isaca.org](http://www.isaca.org)) with more than **40 years of existence**, is a recognized worldwide leader in **IS Audit, IT Governance, Control, Security and Assurance**.
- Administer certifications in **CISA®, CISM® and CGEIT®** by conducting examinations globally twice in a calendar year.
- **More than 86,000 worldwide memberships spread over 160 countries.**
- Members cover a variety of professionals at the middle management senior levels in all industries.
- **ISACA Bangalore chapter with more than 1600 memberships locally, is now positioned to help you succeed and thrive in your career.**
- More than anything else, the **ISACA certification** is important because:?
- **ISACA** brand image & global recognition awarded to the individual professional ?
- Can be a pivotal point in your career for changing the entire outlook ?
- An authentic worldwide body that has created high demand in the global market?
- The intellect and expertise facilitated to the individual professional ?
- The prospective brand association for the potential employer

### **Why should you become a member of ISACA?**

ISACA® Bangalore Chapter has always played a pivotal role in the success of each professional directly or indirectly whoever has passed **CISA® / CISM® / CGEIT® examinations** in last 10 years. Many aspirants have got benefited from the **Regular Classes / Refresher Classes** conducted by ISACA® Bangalore Chapter twice in a year for June & December examinations.

The Chapter ensures that the candidate smoothly sails through the requisite domains of study for CISA® as well as CISM® examinations. The **main advantage** a candidate can get is the *study environment, regularized pattern of study, opportunity to clarify the doubts in the class and gain the required conceptual clarity* to improve probability of passing the exam.

Next **CISA®/CISM®/CGEIT®** exam - **11th December, 2010** across globe  
Choose your exam centre - **BANGALORE**

Already an **ISACA®** member, you can be a mentor to your colleagues / friends / relatives and encourage them to join us for **FREE AWARENESS SESSION**.

The participation to **FREE AWARENESS SESSION** on 31<sup>st</sup> July, 2010 is **OPEN** and on a **FIRST-COME FIRST-SERVE** basis only. Please hurry to register your names by sending mail to with subject heading "**AWARENESS CAMP ON 31<sup>st</sup> July, 2010**".

**Contact for further details:** ISACA® chapter office: No.S.13, 531/A, 2nd Floor, Priya Chambers, Dr.Rajkumar Road, Opp.St.Theresa's Hospital, 2<sup>nd</sup> Stage, Rajajinagar, Bangalore-560010. Ph.Nos. 080 23377956 / 9535197405 Email id: [chapter@isacabangalore.org](mailto:chapter@isacabangalore.org) / [anandjangid@gmail.com](mailto:anandjangid@gmail.com)

**With Best Wishes**

**ISACA® BANGALORE CHAPTER LEADERSHIP TEAM**

## CPE - Chapter 15.5.2010



Topic CGEIT Orientation by Mr. Srikant Patil

## CISM - Crash Course



The Chevron Hotel 137, Infantry Road, Bangalore

## Workshop - Supported Event



ISO 27001 - with SAIGLOBAL

### Executive Committee 2009 – 2010

<b>Mr. Jose Koshy Samuel</b>	President
<b>Mr. Natarajan K.R.</b>	Vice President
<b>Mr. Sarat Chegu</b>	Secretary
<b>Mr. K.S. Sessa Prakash</b>	Treasurer
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<b>Mr. C. N. Shashidhar</b>	Director GRA services
<b>Mr. Manjunatha Babu A</b>	Past President



## CISA Crash Course



At Pride Hotel No. 93, Richmond Road, Bangalore - 25



# SECURITY CONSIDERATIONS IN APPLICATION DEVELOPMENT

Anthony Lim

Director, Asia Pacific, Security, Rational Software IBM Singapore.

It is a known irony that "security concepts" and "software development" do not normally appear on the same line.

Hackers know many organisations today have firewalls, so the network / gateway is not a useful entry point; but firewalls basically do not protect against attacks. Hence the increasing attacks by hackers aimed at software, especially web applications/services (which are big, easy target footprints), in their continued rogue pursuit of stealing or compromising organizations' electronic data and assets.

Experts believe that even more ironically, basic security-minded software-coding techniques like "input validation" and "access control" can eliminate up to 80% of general software attacks like "parameter tampering" and "SQL injection", but are not employed more seriously. These two otherwise-required practices persistently appear near the top of the OWASP (Open Web Application Security Project) annual top 10 web application security issues list.

Jokes like "buffer overflow is still around after 25 years" abound. Security concepts in software development have actually much more to do with human nature and culture than technology.

Developers are artistic folk with no natural love for dry, inconvenient security. Neither do they feel impacted commercially first if a software-based security breach occurs.

Many "secure coding" best practices are not secret or proprietary, but often, Especially in today's increasingly-difficult world, due to pressures of time, budget, knowledge and resource, programming projects prioritize features and functions of the application, with the best intentions to address the security alongside, in the end, security remained but an intention. (Many companies cut headcount cut budget, cut timelines but not the work.)

A typical approach to applying security to software

development will include the following considerations, in the form of a 'master plan' which is in harmony with the juxtaposes with the main software application (requirements, user functions, etc) plan, -

- ◆ Risk management frameworks and process.
- ◆ Code review using static analysis tools
- ◆ Architectural risk analysis
- ◆ penetration testing
- ◆ security testing
- ◆ Abuse case development

One can see the above considerations very often on paper, but its actual physical implementation once coding and building get under way, start to lag behind. Especially absent are the last three (penetration testing, security testing and Abuse Case Development).

Even if not so, penetration testing and security testing are usually done by another team in the organization (or an outsourced consultant) that are not steeped in software development themselves, or don't have much relationship with the people who were coding the software. This is because, by the current state of the IT world, security professionals are mostly from the infrastructure, sysadmin or network side, with little knowledge, interest or experience in software development.

In conclusion, it seems ironic that :

(a) security concepts in software development are not widely or properly implemented currently, and

(b) what is required to achieve so is: not too hard.

Organisation, vendors and software-development service-providers have to diligently educate, encourage, and if necessary, enforce ("the 3 E's") at least the basic processes policies and practices ("the 4 P's!") of security concepts vis-a-vis their coding and building teams and their day-to-day work.

# How Businesses Can Protect Data against Today's Modern Threats – Policy, Education & Technology

Surendra Singh, Regional Director, SAARC, Websense

I don't really have to tell you that data needs protecting. You already know about the need for heightened security measures to prevent the loss of confidential information and regulated data. Yet the proliferation of data compromises reported across the world, such as the misplaced USB key containing thousands of patient's medical data from the Canadian Durham Health Authority and the recent theft of confidential information from Kent Police in the UK, reinforce this need and speak for themselves. Incidents of data loss, be it by accidental employee oversight or via a targeted Web or email attack are not merely hype and they are on the rise.

Over the past few years, many millions of customer records containing sensitive data have been lost or stolen according to authorities such as the Privacy Rights Clearinghouse, and many more surely go unrecorded. Employee error and broken business processes are frequently contributing factors in both unintentional and malicious data loss. Modern technology has changed the face of business and opened up many opportunities. However, the proliferation of information stored and shared electronically is proving to be rich pickings for aggressive fast moving security threats. Businesses are well aware that information is their most valuable asset, and its loss can have major consequences. In addition to this, regulatory compliance is a major concern for many industries.

## Making Positive Strides

Recent research (Source : Websense Security Labs Report) reveals that

- 35% of malicious Web-based attacks include data stealing code
- 58% of all data stealing attacks are conducted over the Web.

Attacks are becoming increasingly targeted: Earlier this year approximately 30 companies became the victim of a browser delivered Web exploit specifically targeting sensitive data. The attack, commonly referred to as Aurora, was designed to evade traditional anti-virus and Web reputation defences to gain access to company assets and sensitive information.

There is no doubt that National Insurance numbers, banking details, medical records, claims submissions, and any other information deemed non-public, needs to be protected from accidental loss or malicious intent.

The Payment Card Industry Data Security Standard (PCI DSS), the Gramm-Leach-Bliley Act (GLBA), Health Insurance Portability and Accountability Act (HIPAA) and Sarbanes-Oxley (SOX); all exist to protect an individual's data, and Data Loss Prevention (DLP) can help with the task of ensuring regulatory compliance.

Up to date legislation such as this, and new policies in various countries changing data breach notification requirements, are no doubt positive steps toward stronger data security. In addition to adhering to legislation, businesses need to adopt a holistic DLP strategy that includes policy, education and technology. For example, adopting both policy and educational programs help remedy broken or risky business processes. Penalties for data loss can be huge ... fines, law suits, lost customers and negative PR. So it's vital your users understand how to secure your data. Further, facilitating employee training can help educate employees on the established policies and enhance general security practice overall.

And, technology based approaches like encryption and IDAM and DLP technology combined with policy and educational programming greatly reduces data loss across an organization.

Here's an example. Based on real-world deployments, it's estimated that an organization that employs technology and training can reduce the volume of data loss by 50 percent or more just by issuing notifications. If a manager learns that their employee is leaking data, you'll see about a 10 percent reduction in incidents. If you inform the employee directly that he or she is responsible for leaking data, you'll see a 50 percent reduction.

## False starts and common mistakes

DLP has been defined \* as "Products that, based on central policies, identify, monitor, and protect data at rest, in motion, and in use through deep content analysis. A comprehensive DLP plan doesn't mean boiling the ocean or creating policies that impair daily business processes. The most successful implementations are often the result of a phased approach, incorporating best practices and control measures.

Many believe that Data classification is the first step in DLP and a step which (mistakenly) leads to literally all data being classified (even public information). This

inevitably creates false positives and is not an improvement to the opposite end of the scale where nothing is classified which leads to false negatives. The other mistake occurs when the classification is unclear and everything falls into a 'default' classification category as people can't decide what is important. We saw a real life example of this at a financial organisation – by default everything containing the word 'confidential' was deemed too sensitive to leave the company. "What's wrong with that?" you may ask. Take into account that the disclaimer on every company email included the word 'confidential, and I'm sure you'll spot the difficulty of false positives that arose.

What's the alternative? The answer is actually quite simple and lies in context combined with intelligent Out-of-the-Box Policies within a comprehensive DLP strategy. The ability to accurately identify sensitive data, wherever it may be and wherever it is going, is key for any DLP solution.

### **Planning a Comprehensive DLP Strategy**

When planning a comprehensive DLP strategy, the following practices can reduce the risks of malicious threats, save costs associated with data management and security and help meet regulatory compliance.

#### **1. Identify, Monitor and Protect**

It's important to identify what data is confidential, monitor where the information is going and then implement protection controls to ensure it is only going to the proper individuals. This crucial step provides a better understanding of an organization's business processes and, therefore, enables them to develop sound data security policies to protect data.

For example, we recently worked with one large US hospital to help them audit and monitor HIPAA-regulated data. The IT department at the hospital was shocked to discover that nurses would type patient notes into Google docs using laptops as they were doing their rounds. Later, they'd return to the nursing station and copy and paste the notes into the hospital's secure system. The nurses were simply trying to be more efficient at their jobs, but the practice violated HIPAA regulations.

#### **2. Web and Email Content Control**

Implement a technology solution that can inspect and control content over the Web and email – your two primary communication channels. Data loss via the Web is four times more likely than email. When you email, you're mostly emailing your peers at work. When you're talking about the Web, every transaction or communication is outside your organization. For a security or IT team to be efficient and successful at

protecting against these types of data loss, it's also important to look for ways to consolidate your monitoring protocols and have a single inspection gateway. For example, Web security gateways and email security solutions need to be strongly integrated with data loss prevention technologies and policies to be effective, deliver consolidation, and prevent the loss of data through these channels.

#### **3. Understand the Laws and Regulations of "Where" You Conduct Business**

It's important to understand the data laws and regulations not just where your business resides, but where it operates. This is critical since operating in a specific country or state may subject an organization to its laws, even if there is no office present. Therefore, it is important to be cognizant about the content in use and the context, and consider the capacity of the solution deployed to create this awareness and enforce sensitive data policies. For example, when your DLP solution identifies an incident over a Web channel, does it report where the data was sent (i.e., the Website or type of Website)? If you do not receive this context, you run the risk of missing the details necessary to effectively and efficiently address the problem. Further a solution that gives you the full picture of an incident saves both time and resources when determining steps for remediation.

#### **Where does DLP go from here?**

Through proper employee education, understanding of where your sensitive data moves within your organization – and through what channels - combined with proper processes and technology in place to safeguard, organizations can increase the security within their organization and meet the regulatory requirements for all the areas and regions in which the company does business.

As you can see, Comprehensive data security is multi-faceted, addresses the entire flow of data and must consider various factors requiring simple and unified management. With a proactive approach to intelligently identify, manage, monitor and secure data, implementing DLP technology can mitigate the risk and simplify the task of ensuring regulatory compliance.

As the sophistication of threats increases, so too should the technology that protects the data that the cybercriminals are trying so hard to steal. The future of DLP technology is unified content security: a solution which can intelligently identify, manage, monitor and secure data using integrated Web, email, and data security technologies to provide the best security for modern threats.

## **NEWS FROM ISACA HEADQUARTERS**

### **eBay Security Executive to Open ISACA Conference**

ISRM North America • Las Vegas, Nevada, USA • 13-15 September 2010

This year's Information Security and Risk Management (ISRM) Conference in Las Vegas will open with a keynote address titled "Building Trust in the Cloud," presented by Dave Cullinane, chief information security officer (CISO) for eBay. He will share his experiences in the security arena at this leading Internet retailer.

The conference will also include many sessions on the cloud computing topic. These discussions are being offered to foster a greater understanding of information security within the cloud. ISACA and the Cloud Security Alliance, along with the many speakers presenting at the conference, offer assistance to enterprises to help ensure effective governance and control over cloud computing.

The conference is an educational event geared specifically toward information security professionals and provides an opportunity for earning up to 32 continuing professional education (CPE) hours. Through its real-world solutions and interaction with industry leaders, the ISRM Conference will give security professionals tools that cannot be learned from textbooks.

On Monday, 13 September, join Oracle in the first Lunch and Learn at the ISRM Conference. This session is sponsored and presented exclusively by Oracle. Earn one CPE hour for this session. Arrive in the meeting room, where lunch will also be served, early as space is limited to 100 people. Check your program guide for room assignments.

Conference to Address Driving Value, Managing Risk and Achieving Objectives IT Governance, Risk and Compliance Conference • Boston, Massachusetts, USA • 6-8 October "ISACA® has a long history of members pulling together to create frameworks, guidance and education that stress creating risk-return value by focusing on business objectives (including compliance and performance). Therefore, we hope, through this year's theme, the conference will both harness ISACA's strong history and show how that knowledge can help attendees be more personally effective in addressing this hot industry topic."

### **Conference to Address Driving Value, Managing Risk and Achieving Objectives**

#### **IT Governance, Risk and Compliance Conference**

**• Boston, Massachusetts, USA  
• 6-8 October 2010**

Brian Barnier, CGEIT, principal at ValueBridge Advisors and chairman of the Conference Task Force, offers his thoughts on this year's conference.

please describe the theme and the reasons that it was chosen for this year's conference.

"Driving Value, Managing Risk, Achieving Objectives" is the theme for this year's IT Governance, Risk and Compliance (IT GRC) Conference. ISACA® has a long history of members pulling together to create frameworks, guidance and education that stress creating risk-return value by focusing on business objectives (including compliance and performance). Therefore, we hope, through this theme, the conference will both harness ISACA's strong history and show how that knowledge can help attendees be more personally effective in addressing this hot industry topic.

#### **Participate in IFAC International Alignment Survey**

##### **Topic: International Alignment of Risk Management and Internal Control Guidelines**

The Professional Accountants in Business (PAIB) Committee of the International Federation of Accountants (IFAC), with the assistance of the Committee of Sponsoring Organizations (COSO), invites you to participate in a survey to assess the need to align risk management and internal control guidelines internationally.

#### **ISACA Congratulates 2010 Award Winners**

ISACA® would like to congratulate the winners of the 2010 awards, many of which were presented at the International Conference in Cancun, Mexico, in June.

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**Gartner**

Magic Quadrant for Content-Aware Data Loss Prevention:  
**Leaders Quadrant\***

\*Source: ResearchMagic Quadrant for Content-Aware Data Loss Prevention, Q3 2010

**Web Security**

Websense Web Security solutions provide the industry's best security against modern threats at the lowest total cost of ownership.

**Gartner**

Magic Quadrant for Secure Web Gateway:  
**Leaders Quadrant\***

\*Source: Gartner, "Magic Quadrant for Secure Web Gateway" by Peter Frankel and Lawrence Orfanedes, January 8, 2010

April 17, 2010

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 MONTH/DAY/YEAR

Name \_\_\_\_\_  
 FIRST MIDDLE LAST/FAMILY

PRINT NAME AS YOU WANT IT TO APPEAR ON MEMBERSHIP CERTIFICATE

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 STREET  
 CITY STATE/PROVINCE/COUNTRY POSTAL CODE/ZIP

Residence phone \_\_\_\_\_ Residence facsimile \_\_\_\_\_  
 AREA/COUNTRY CODE AND NUMBER AREA/COUNTRY CODE AND NUMBER

Company name \_\_\_\_\_  
 Title \_\_\_\_\_

Business address \_\_\_\_\_  
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Business phone \_\_\_\_\_ Business facsimile \_\_\_\_\_  
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Chapter Affiliation  
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 or  
 Member at large (no chapter within 50 miles/80 km)

I do not want to be included on a mailing list, other than that for Association mailings.

How did you hear about ISACA?  
 1  Friend/Coworker 6  Local Chapter  
 2  Employer 7  Certification Programs  
 3  Internet Search 8  Direct Mail  
 4  Information Systems Control Journal 9  Educational Event  
 5  Other Publication

**Please note:** Membership in the association requires you to belong to a chapter when you live or work within 50 miles/80 km of a chapter territory. The name of the chapter is indicative of its territory. If you live farther than 50 miles/80 km from a chapter territory, select member at large. Chapter selection is subject to verification by ISACA International Headquarters. Cities listed in parentheses are a reference to where the majority of chapter meetings are held. Please contact your local chapter at [www.isaca.org/chapters](http://www.isaca.org/chapters) for other meeting locations.

Current field of employment (check one)

- 1 Financial/Banking
- 2 Insurance
- 3 Public Accounting
- 4 Transportation
- 5 Aerospace
- 6 Retail/Wholesale/Distribution
- 7 Government/Military—National/State/Local
- 8 Technology Services/Consulting
- 9 Manufacturing/Engineering
- 10 Telecommunications/Communications
- 11 Mining/Construction/Petroleum/Agriculture
- 12 Utilities
- 13 Legal/Law/Real Estate
- 14 Health Care/Medical
- 15 Pharmaceutical
- 16 Advertising/Marketing/Media
- 17 Education/Student
- 99 Other \_\_\_\_\_

Level of education achieved (indicate degree achieved, or number of years of university education if degree not obtained)

- 1 One year or less
- 2 Two years
- 3 Three years
- 4 Four years
- 5 Five years
- 6 Six years or more
- 7 AS
- 8 BS/BA
- 9 MS/MBA/Masters
- 10 PhD
- 99 Other \_\_\_\_\_

Certifications obtained (other than CISA, CISM, CGEIT)

- 1 CPA
- 2 CA
- 3 CIA
- 4 CISSP
- 5 CPP
- 6 GIAC
- 7 CFE
- 99 Other \_\_\_\_\_

Work experience (check the number of years of information systems related work experience)

- 1 No experience
- 2 1-3 years
- 3 4-7 years
- 4 8-9 years
- 5 10-13 years
- 6 14 years or more

Current professional activity (if not your title, please select the BEST match)

- 1 CEO, President, Owner, General/Executive Manager
- 2 CAE, General Auditor, Partner, Audit Head/VP/EVP
- 3 CISO/CSO, Security Executive/VP/EVP
- 4 CIO/CTO, Info Systems/Technology Executive/VP/EVP
- 5 CFO, Controller, Treasurer, Finance Executive/VP/EVP
- 6 Chief Compliance/Risk/Privacy Officer, VP/EVP
- 7 IT Audit Director/Manager/Consultant
- 8 Security Director/Manager/Consultant
- 9 IT Director/Manager/Consultant
- 10 Compliance/Risk/Privacy Director/Manager/Consultant
- 11 IT Senior Auditor (External/Internal)
- 12 IT Auditor (External/Internal Staff)
- 13 Non-IT Auditor (External/Internal)
- 14 Security Staff
- 15 IT Staff
- 16 Professor/Teacher
- 17 Student
- 99 Other \_\_\_\_\_

Date of Birth \_\_\_\_\_  
 MONTH/DAY/YEAR

Payment due

\$ 130.00 (US)  
 \$ \_\_\_\_\_ (US)  
 \$ 30.00 (US)\*  
 PLEASE PAY THIS TOTAL \$ \_\_\_\_\_ (US)

1 For student membership information please visit [www.isaca.org/student](http://www.isaca.org/student)

\* Membership dues consist of Association dues, chapter dues and new member processing fee. Join online and save US \$20.00.

Membership dues are nonrefundable and nontransferable.

Method of payment

- Check payable in US dollars, drawn on US bank
- Send invoice (Applications cannot be processed until dues payment is received.)
- MasterCard  VISA  American Express  Diners Club

All payments by credit card will be processed in US dollars

ACCT # \_\_\_\_\_

Print name of cardholder \_\_\_\_\_

Expiration date \_\_\_\_\_  
 MONTH/YEAR

Signature \_\_\_\_\_

Cardholder billing address if different than address provided above:  
 \_\_\_\_\_  
 \_\_\_\_\_

By applying for membership in ISACA, members agree to hold the association and its chapters, and the IT Governance Institute, and their respective officers, directors, members, trustees, employees and agents, harmless for all acts or failures to act while carrying out the purposes of the association and the institute as set forth in their respective bylaws, and they certify that they will abide by the association's Code of Professional Ethics ([www.isaca.org/ethics](http://www.isaca.org/ethics)).

Full payment entitles new members to membership from the date payment is processed by International Headquarters through 31 December 2009. No rebate of dues is available upon early resignation of membership.

Contributions, dues or gifts to ISACA are not tax deductible as charitable contributions in the United States. However, they may be tax deductible as ordinary and necessary business expenses.

Make checks payable to:  
 ISACA

Mail your application and check to:  
 ISACA  
 1055 Paysphere Circle  
 Chicago, IL 60674 USA  
 Phone: +1.847.253.1545  
 Fax: +1.847.253.1443

The dues amounts on this application are valid 7 August 2008 through 31 May 2009.



## STUDENT MEMBERSHIP APPLICATION

U.S. Federal I.D. No. 23-7067291  
www.isaca.org  
membership@isaca.org

MR.  MS.  MRS.  MISS  OTHER \_\_\_\_\_ Date \_\_\_\_\_  
MONTH/DAY/YEAR

Name \_\_\_\_\_  
FIRST MIDDLE LAST/FAMILY

Address at school \_\_\_\_\_  
STREET  
 \_\_\_\_\_  
CITY STATE/PROVINCE/COUNTRY POSTAL CODE/ZIP

Phone at school \_\_\_\_\_ Facsimile at school \_\_\_\_\_  
AREA/COUNTRY CODE AND NUMBER AREA/COUNTRY CODE AND NUMBER

University Name \_\_\_\_\_

Field of study/major of concentration \_\_\_\_\_ Expected date of graduation \_\_\_\_\_

Home address \_\_\_\_\_  
STREET  
 \_\_\_\_\_  
CITY STATE/PROVINCE/COUNTRY POSTAL CODE/ZIP

Home phone \_\_\_\_\_ Home facsimile \_\_\_\_\_  
AREA/COUNTRY CODE AND NUMBER AREA/COUNTRY CODE AND NUMBER

E-mail \_\_\_\_\_

<p><b>Send mail to</b></p> <p><input type="checkbox"/> Home</p> <p><input type="checkbox"/> School</p> <p><b>Degree Program</b></p> <p><input type="checkbox"/> Undergraduate</p> <p><input type="checkbox"/> Graduate</p>	<p><input type="checkbox"/> I do not want to be included on a mailing list, other than that for Association mailings.</p>	<p><b>How did you hear about ISACA?</b></p> <p>1 <input type="checkbox"/> Friend/Coworker</p> <p>2 <input type="checkbox"/> Employer</p> <p>3 <input type="checkbox"/> Internet Search</p> <p>4 <input type="checkbox"/> IS Control Journal</p> <p>5 <input type="checkbox"/> Other Publication</p>	<p>6 <input type="checkbox"/> Local Chapter</p> <p>7 <input type="checkbox"/> Certification Program</p> <p>8 <input type="checkbox"/> Direct Mail</p> <p>9 <input type="checkbox"/> Educational Event</p> <p>10 <input type="checkbox"/> Professor/University</p>
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To become a student member, you must be a full-time student (undergraduate or graduate) and attach one of the following:

- a current transcript with the name of the institution and name of the student
- a current class schedule provided by the university with the name of the institution and name of student.

All international Association benefits will be provided electronically.

<p><b>Payment due</b></p> <ul style="list-style-type: none"> <li>• Association dues for students \$ <u>25.00</u> (US)</li> <li>• Chapter dues # _____ (see following page) \$ _____ (US)</li> </ul> <p>PLEASE PAY THIS TOTAL* \$ _____ (US)</p> <p>* Membership dues consist of Association dues and chapter dues.</p> <p>Membership dues are non-refundable and non-transferable.</p> <p><b>Method of payment</b></p> <p><input type="checkbox"/> Check payable in US dollars, drawn on US bank</p> <p><input type="checkbox"/> MasterCard <input type="checkbox"/> VISA <input type="checkbox"/> American Express <input type="checkbox"/> Diners Club</p> <p>All payments by credit card will be processed in US dollars</p> <p>Account # _____</p> <p>Print name of cardholder _____</p> <p>Expiration date _____  <small>MONTH/YEAR</small></p> <p>Signature _____</p> <p>Cardholder billing address if different than address provided above:          _____          _____</p>	<p>By applying for membership in ISACA, members agree to hold the Association and its chapters, and the IT Governance Institute, and their respective officers, directors, members, trustees, employees and agents, harmless for all acts or failures to act while carrying out the purposes of the Association and the Institute as set forth in their respective bylaws, and they certify that they will abide by the Association's Code of Professional Ethics (<a href="http://www.isaca.org/ethics">www.isaca.org/ethics</a>).</p> <p>Full payment entitles new members to membership from the date payment is processed by International Headquarters through 31 December 2009. No rebate of dues is available upon early resignation of membership.</p> <p>Contributions, dues or gifts to the Information Systems Audit and Control Association are not tax deductible as charitable contributions in the United States. However, they may be tax deductible as ordinary and necessary business expenses.</p> <p><b>Make checks payable to:</b> ISACA</p> <p><b>Mail your application and check to:</b> ISACA 1055 Paysphere Circle Chicago, IL 60674 USA Phone: +1.847.253.1545 x5595 Fax: +1.847.253.1652</p>
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## ADVERTISEMENTS IN NEWS LETTER - A SPECIAL OFFER

ISACA BANGALORE CHAPTER announces a special offer to IT Security & Audit consulting companies, security product and solution companies and IT Audit firms to place their advertisements in our Quarterly News Letter – InfocITy Auditor.

InfocITy Auditor is a quarterly News Letter published by ISACA Bangalore Chapter and released in the Months of April, July, October and January every year and distributed to all its members free of cost.

The news letter has a very wider reach. Close to 1000 members affiliated to the chapter receive the News Letter by mail in a PDF format. The News Letter is also placed on the chapter web site [www.isacabangalore.org](http://www.isacabangalore.org) for the benefit of not only the members but also to others who access the site. The web site registers average hits of about 1600 per day. The hard copy of the News Letter is also circulated to about 200 educational institutions, colleges, universities and IT organizations with in the State of Karnataka free of cost.

The salient features of this offer are as follows:

1. Advertisements are published in 1-page A4 for each subscriber
2. Annual Subscription Rate: Rs.10000/- for inside pages and Rs.15000/- for Cover Pages (Inside of Front Cover Page, Back Cover Outer Page and Back Cover Inner Page). The Service Tax at 12.36% is charged extra.
3. Validity Period: 1 year and for the FOUR immediate issues of the Chapter's News Letters
4. The subscription is open all through the year
5. The advertisements are invited in A4 size either in black & white or Color
6. The format of the advertisement should be in JPG or PDF format
7. The Chapter reserves the right to reformat the advertisement as necessary for publishing in the News Letter



8. The advertisements shall be published continuously in all the FOUR issues of the future Newsletters that are released subsequent to the receipt of the subscription amount
9. The Subscriber is encouraged to contribute minimum TWO ARTICLES during the period of subscription. The articles shall be on any contemporary topic related to IT/IT Security/ IT Audit/Risk/Governance/Compliance/Standards etc. The articles should be of their own and if copied/sourced, necessary permissions should be obtained and disclosed accordingly. Articles purely focussing on Products are not permitted.
10. Any modifications to the advertisement or replacement to the existing advertisement should be informed to Chapter one month prior the release of the next issue.
11. All advertisements are subject to approval of the Editor
12. Bangalore Chapter does neither subscribe to the content of the advertisements nor endorse to the product/services thus placed in their News Letters and does not guarantee or vouch for the information or promises made in such advertisements
13. This Special Offer complements the Web site advertisement policy of the Chapter for Jobs Online and is not a replacement
14. Advertisements along with the subscription amount should reach the Chapter Office before 15<sup>th</sup> of Mar/June/Sept/Dec/ so that the advertisement/s can be published in the respective quarter News Letter.
15. The intending subscribers may fill the attached form and send to the Chapter Office along with a hard copy of Advertisement and a cheque for the Annual Subscription, followed by a confirmation email. Acknowledgement for receipt shall be sent by the Chapter by email
16. For any clarifications please contact: The Chapter Manager at **chapter@isacabangalore.org**

\*\*\*\*



## BANGALORE CHAPTER

### APPLICATION FOR PUBLISHING ADVERTISEMENT IN CHAPTER NEWS LETTER

1. Name of the Subscriber/Subscribing Company/Institution:
2. Address: (You may attach a Visiting Card)
3. Established in the Year:
4. Company Constitution (Pvt Ltd/Public Ltd/Proprietary/Others):
5. Main Area of Business:
6. Advertisement copy attached – Yes/No
7. Cheque Attached – Yes/No
8. Details of Cheque attached:
  - Cheque/Draft No:
  - Date:
  - Amount
  - Drawn on (Bank)
  - Place:
9. Email ID for any correspondence:
10. Contact Nos:
11. Contact Person – Name & Designation in the Company/Institution
12. Email Confirmatory Sent – Yes/No:

We request the ISACA, Bangalore Chapter to place the attached advertisement in their future News Letters commencing from their **April/July/October/January (tick the relevant issue)** issue.

We agree to the terms and conditions of this special offer.

**Signature**  
**AUTHORIZED SIGNATORY**

**Name:**  
**Designation:**  
**Date:**

WHAT'S IN IT FOR YOU? ----->

**Community and Leadership**  
*Connect with future employers and a global community*



Through ISACA® membership, you can get to know future employers, connect with a global community and pursue leadership opportunities. Student membership provides access to:

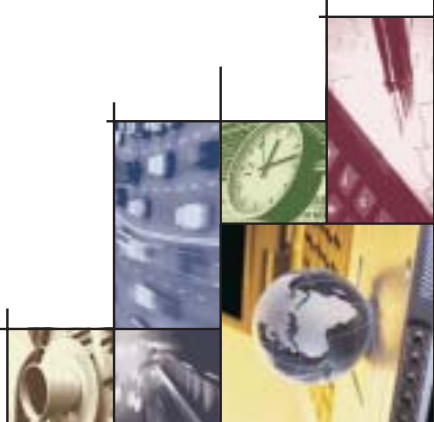
- ▶ **Discussion forums**—Share advice, seek assistance and raise pertinent questions on topics including Sarbanes-Oxley, IT governance, *Control Objectives for Information and related Technology (CobIT®)* and information security management.
- ▶ **Local benefits**—Access affordable educational programs and information exchange in your local area. Your local chapter ([www.isaca.org/chapters](http://www.isaca.org/chapters)) is a great place to access professional connections, increase your knowledge and learn about career opportunities in your area.

**Research and Knowledge**  
*Expand your learning and open the door to professional resources*



An extensive web site full of membership resources can provide opportunities to increase your knowledge on topics that are important to you and your career. These resources include:

- ▶ **K-NET®**—Full access to a searchable, online, global IT governance knowledge resource ([www.isaca.org/knet](http://www.isaca.org/knet))
- ▶ **Information Systems Control Journal®**—An electronic subscription providing professional development information to those involved with information systems audit, control and security ([www.isaca.org/journal](http://www.isaca.org/journal))
- ▶ **Free publication downloads**—Access to free downloads of publications such as *IT Control Objectives for Sarbanes-Oxley, 2<sup>nd</sup> Edition*; *IT Control Objectives for Basel II*; *CobIT Security Baseline, 2<sup>nd</sup> Edition*; *The IT Governance Implementation Guide: Using CobIT and Val IT, 2<sup>nd</sup> Edition*; and the IT Governance Domain Practices and Competencies series ([www.isaca.org/downloads](http://www.isaca.org/downloads))

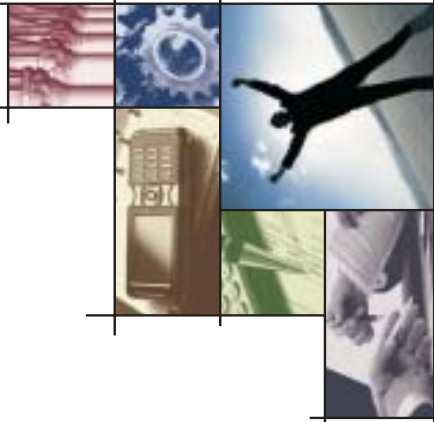


**Professional Development**  
*Increase your value*



ISACA student membership gives you the opportunity to advance your career. Development tools available to student members include:

- ▶ **Career Centre**—Access to post résumés/CVs and request e-mail notification of new jobs ([www.isaca.org/careercentre](http://www.isaca.org/careercentre))
- ▶ **Conferences and training**—Discounts on more than 25 ISACA events and conferences annually
- ▶ **Webcasts and e-symposia**—Free, monthly e-symposia
- ▶ **Local education**—Access to educational programs and information exchange through regular chapter meetings and events



- ▶ **Discounts of publications**—Discounts on IT Governance Institute® (ITGI™) research publications and convenient access to peer-reviewed ISACA Bookstore publications ([www.isaca.org/bookstore](http://www.isaca.org/bookstore))
- ▶ **Free Download of CobIT® 4.1**—Free baseline functionality of CobIT Online®, an increasingly internationally accepted set of guidance materials for IT governance, and discounts on the purchase of hard copies of CobIT ([www.isaca.org/cobit](http://www.isaca.org/cobit))

**MAXIMIZE IT CAREER OPPORTUNITIES.**

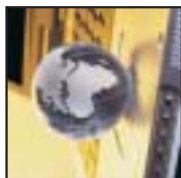
Get a head start on your future success. Joining ISACA will open the door to the connections, knowledge and professional development tools you need to succeed as you pursue your career.

ISACA is a pace-setting global organization for IT professionals focusing on information governance, security and assurance. ISACA's more than 86,000 constituents and 180 chapters include information systems (IS) auditors, consultants, educators, IS security professionals, regulators, chief information officers and internal auditors, to name a few. Some are new to the field and others are seasoned professionals. They work all over the world in nearly all industry categories. This diversity enables members to learn from each other, develop professional connections and exchange viewpoints on industry topics.



**Becoming an ISACA Student Member**

As an ISACA student member, you will join a community of more than 800 students in more than 200 universities worldwide. ISACA student members major in a variety of areas including:



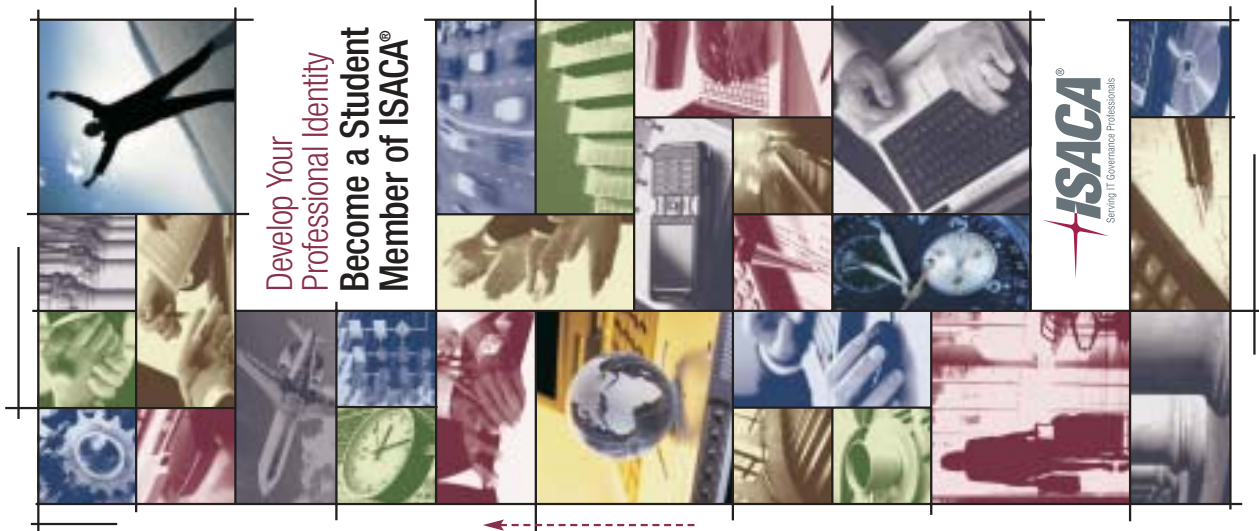
- ▶ Information systems
- ▶ Business administration
- ▶ Accounting
- ▶ Information technology
- ▶ Engineering
- ▶ Computer science

**Become an ISACA student member today!** Complete the application at [www.isaca.org/student](http://www.isaca.org/student). You must be enrolled as a full-time student (9 credit hours or more) to qualify. Your new membership will give you access to all of the contacts, knowledge and tools you need to develop your professional identity.

[www.isaca.org/student](http://www.isaca.org/student)



3701 Algonquin Road, Suite 1010  
 Rolling Meadows, IL 60008-3105, USA  
 Phone: +1.847.253.1545  
 Fax: +1.847.253.1443  
 E-mail: [membership@isaca.org](mailto:membership@isaca.org)  
 Web site: [www.isaca.org](http://www.isaca.org)



**Develop Your Professional Identity  
 Become a Student Member of ISACA®**

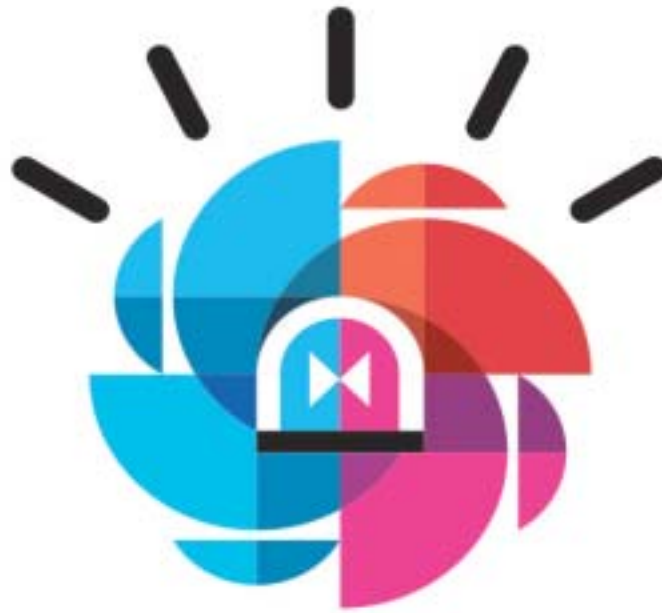


US dollar amounts listed below are for local chapter dues. While correct at the time of printing, chapter dues are subject to change without notice. Please include the appropriate chapter dues amount with your remittance.

For current chapter dues, or if the amount is not listed below, please visit the web site, [www.isaca.org/chapdues](http://www.isaca.org/chapdues), or contact your local chapter at [www.isaca.org/chapters](http://www.isaca.org/chapters).

Chapter Name	Chapter Number	Dues	Chapter Name	Chapter Number	Dues	Chapter Name	Chapter Number	Dues	Chapter Name	Chapter Number	Dues			
<b>ASIA</b>			Germany	104	\$80	Northeast Ohio (Cleveland)	26	\$30	Sacramento, CA	76	\$25			
Hong Kong	64	\$60	Athens, Greece	134	\$30	Northwest Ohio	188	\$25	San Francisco, CA	15	\$45			
Bangalore, India	138	\$20	Budapest, Hungary	125	\$65	Kettle Moraine, WI (Milwaukee)	57	\$35	San Diego, CA	19	\$40			
Cochin, India	176	\$15	Ireland	156	\$40	Quad Cities	169	\$25	Silicon Valley, CA (Sunnyvale)	62	\$30			
Coimbatore, India	155	\$20	Tel-Aviv, Israel	40	\$50	<b>Northeastern United States</b>								
Hyderabad, India	164	\$20	Milan, Italy	43	\$53	Greater Hartford, CT	28	\$40	Hawaii (Honolulu)	71	\$40			
Kolkata, India	165	\$20	Rome, Italy	178	\$26	Central Maryland (Baltimore)	24	\$25	Boise, ID	42	\$40			
Chennai, India	99	\$10	Kenya	158	\$40	New England	18	\$30	Las Vegas, NV	187	\$35			
Mumbai, India	145	\$35	Latvia	139	\$20	New Jersey	30	\$40	Willamette Valley, OR (Portland)	50	\$30			
New Delhi, India	140	\$15	Lithuania	180	\$40	Central New York (Syracuse)	29	\$15	Utah (Salt Lake City)	04	\$30			
Pune, India	159	\$17	Luxembourg	198	\$85	Hudson Valley, NY (Albany)	120	\$0	Mt. Rainier, WA (Olympia)	129	\$20			
Vijayawada, India	200	\$20	Malta	186	\$25	New York Metropolitan	10	\$50	Puget Sound, WA (Seattle)	35	\$25			
Indonesia	123	\$45	Netherlands	97	\$50	Western New York (Buffalo)	46	\$30	<b>OCEANIA</b>					
Nagoya, Japan	118	\$60	Abuja, Nigeria	185	\$40	Harrisburg, PA	45	\$25	Adelaide, Australia	68	\$0			
Osaka, Japan	103	\$85	Lagos, Nigeria	149	\$20	Philadelphia, PA	06	\$40	Brisbane, Australia	44	\$16			
Tokyo, Japan	89	\$80	Norway	74	\$55	Pittsburgh, PA	13	\$20	Canberra, Australia	92	\$15			
Korea	107	\$40	Warsaw, Poland	151	\$40	Rhode Island	197	\$25	Melbourne, Australia	47	\$15			
Lebanon	181	\$35	Moscow, Russia	167	\$10	National Capital Area, DC	05	\$40	Perth, Australia	63	\$10			
Macao	190	\$0	Romania	172	\$50	<b>Southeastern United States</b>								
Malaysia	93	\$10	Slovenia	137	\$50	North Alabama (Birmingham)	65	\$30	Sydney, Australia	17	\$30			
Muscat, Oman	168	\$40	Slovak Republic	160	\$65	Jacksonville, FL	58	\$30	Auckland, New Zealand	84	\$40			
Karachi, Pakistan	148	\$20	South Africa	130	\$49	Central Florida (Orlando)	67	\$35	Wellington, New Zealand	73	\$28			
Lahore, Pakistan	196	\$30	Barcelona, Spain	171	\$110	South Florida	33	\$40	Papua New Guinea	152	\$10			
Manila, Philippines	136	\$20	Madrid, Spain	183	\$85	West Florida (Tampa)	41	\$35	<p><b>To receive your copy of the Information Systems Control Journal, please complete the following subscriber information:</b></p> <p><b>Size of ENTIRE organization</b></p> <p>^ <input type="checkbox"/> Fewer than 50 employees</p> <p>— <input type="checkbox"/> 50 – 149 employees</p> <p>~ <input type="checkbox"/> 150 – 499 employees</p> <p>a <input type="checkbox"/> 500 – 1,499 employees</p> <p>b <input type="checkbox"/> 1,500 – 4,999 employees</p> <p>c <input type="checkbox"/> 5,000 – 9,999 employees</p> <p>d <input type="checkbox"/> 10,000 – 14,999 employees</p> <p>e <input type="checkbox"/> 15,000 or more employees</p> <p><b>Size of IT audit staff (local office)</b></p> <p>^ <input type="checkbox"/> 0 individuals</p> <p>— <input type="checkbox"/> 1 individual</p> <p>~ <input type="checkbox"/> 2-5 individuals</p> <p>a <input type="checkbox"/> 6-10 individuals</p> <p>b <input type="checkbox"/> 11-25 individuals</p> <p>c <input type="checkbox"/> More than 25 individuals</p> <p><b>Size of information security staff (local office)</b></p> <p>^ <input type="checkbox"/> 0 individuals</p> <p>— <input type="checkbox"/> 1 individual</p> <p>~ <input type="checkbox"/> 2-5 individuals</p> <p>a <input type="checkbox"/> 6-10 individuals</p> <p>b <input type="checkbox"/> 11-25 individuals</p> <p>c <input type="checkbox"/> More than 25 individuals</p> <p><b>Your level of purchasing authority</b></p> <p>^ <input type="checkbox"/> Recommend products/services</p> <p>— <input type="checkbox"/> Approve purchase</p> <p>~ <input type="checkbox"/> Recommend and approve purchase</p>					
Jeddah, Saudi Arabia	163	\$70	Valencia, Spain	182	\$45	Atlanta, GA	39	\$40						
Riyadh, Saudi Arabia	154	\$0	Sweden	88	\$45	Charlotte, NC	51	\$35						
Singapore	70	\$10	Switzerland	116	\$45	Research Triangle (Raleigh, NC)	59	\$25						
Sri Lanka	141	\$15	Tanzania	174	\$50	South Carolina Midlands (Columbia, SC)	54	\$30						
Taiwan	142	\$50	Kampala, Uganda	199	\$0	Memphis, TN	48	\$45						
Bangkok, Thailand	109	\$10	London, UK	60	\$40	Middle Tennessee (Nashville)	102	\$45						
UAE	150	\$10	Central UK	132	\$55	Virginia	22	\$30						
<b>CENTRAL/SOUTH AMERICA</b>			Northern England, UK	111	\$75	<b>Southwestern United States</b>								
Buenos Aires, Argentina	124	G	Scotland, UK	175	\$80	Central Arkansas (Little Rock)	82	\$60						
Mendoza, Argentina	144	G	<b>NORTH AMERICA</b>			Denver, CO	16	\$40						
LaPaz, Bolivia	173	\$25	<b>Canada</b>			Baton Rouge, LA	85	\$25						
Brasilia, Brazil	202	\$10	Calgary, AB	121	\$25	Greater New Orleans, LA	61	\$25						
Rio de Janeiro, Brazil	203	\$10	Edmonton, AB	131	\$25	Greater Kansas City, MO	87	\$0						
São Paulo, Brazil	166	\$20	Vancouver, BC	25	\$20	St. Louis, MO	11	\$25						
Santiago, Chile	135	\$40	Victoria, BC	100	\$0	New Mexico (Albuquerque)	83	\$25						
Bogotá, Colombia	126	\$25	Winnipeg, MB	72	\$20	Central Oklahoma (OK City)	49	\$30						
San José, Costa Rica	31	\$33	Nova Scotia	105	\$0	Tulsa, OK	34	\$30						
Quito, Ecuador	179	\$15	Ottawa Valley, ON	32	\$16	Austin, TX	20	\$25						
Guadalajara, México	201	\$40	Toronto, ON	21	\$25	Greater Houston Area, TX	09	\$40						
Mérida, Yucatán, México	101	\$50	Montreal, PQ	36	\$25	North Texas (Dallas)	12	\$30						
Mexico City, México	14	\$65	Quebec City, PQ	91	\$45	San Antonio/So. Texas	81	\$25						
Monterrey, México	80	\$50	<b>Islands</b>			<b>Western United States</b>								
Panamá	94	\$30	Bermuda	147	\$0	Anchorage, AK	177	\$20						
Asunción, Paraguay	184	\$40	Trinidad & Tobago	106	\$25	Phoenix, AZ	53	\$30						
Lima, Perú	146	\$15	<b>Midwestern United States</b>			Los Angeles, CA	01	\$25						
Puerto Rico	86	\$40	Chicago, IL	02	\$50	Orange County, CA (Anaheim)	79	\$30						
Montevideo, Uruguay	133	G	Illini (Springfield, IL)	77	\$30	<b>EUROPE/AFRICA</b>								
Venezuela	113	\$20	Central Indiana (Indianapolis)	56	\$30	Austria	157	\$45						
			Iowa (Des Moines)	110	\$25	Belgium	143	\$70						
			Kentuckiana (Louisville, KY)	37	\$35	Sofia, Bulgaria	189	\$40						
			Detroit, MI	08	\$40	Croatia	170	\$50						
			Western Michigan	38	\$30	Czech Republic	153	\$130						
			Minnesota	07	\$35	Denmark	96	\$50						
			Omaha, NE	23	\$30	Estonia	162	\$30						
			Central Ohio (Columbus)	27	\$35	Finland	115	\$15						
			Greater Cincinnati, OH	03	\$30	France (Paris)	75	\$140						

G: Call chapter for information



## Safer citizens of a smarter planet.

Arguably, the first duty of a state is to protect its citizens. The question is, how do we achieve that in an urbanising world that is becoming more fast-paced and unpredictable every day?

Significant strides have been made by applying innovative, community-based approaches and new technologies to help reduce urban crime and improve emergency response. Yet, the challenges to public safety continue to grow.

Fortunately, new capabilities are now at our disposal to help make urban public safety systems not just more connected and efficient, but smarter.

Progressive leaders, for instance, are now able to analyse, anticipate and prevent crimes and emergencies, rather than respond to them after they occur. They are doing so with smart systems that capture data from multiple resources and then apply intelligence to this welter of information to detect patterns and react on them in real time.

We see it happening today in New York, where police commanders are using analytics and visualisation tools to see crime patterns, even as they form. The city's Real Time Crime Center system can quickly query millions of pieces of information to uncover previously unknown data relationships and points of connection. Integrated crime information analysis, delivered in real time, has

helped New York see a 27% drop in crime since 2001, making it the safest large city in the U.S.

We see it happening in Madrid. Following the terrorist attacks of March 2004, the city developed a new Emergency Response Center. So today, when a citizen witnesses an accident and places an emergency call, the system simultaneously alerts the police, the ambulance service and, if needed, the fire brigade. The smart system can recognise if alerts from several different sources relate to a single or multiple incidents, and assign the right resources based on the requirements coming from the ground.

We now see it happening in India too. DLF, a leading real estate company, has initiated a proactive security solution that integrates security sub-systems like access control and CCTVs. The solution, tested at a DLF premises, has been shown to enhance monitoring capabilities and help resolve potential security situations in real time.

For all cities and regions competing in the global marketplace for work, investment and talent, safety and security are crucial factors in determining overall quality of life. Which is why smarter public safety systems are not just a responsibility of the state, but also a priority for the success of businesses, communities and civil society at large.

Let's build a smarter planet. Join us and see what others are thinking at [ibm.com/smarterplanet/in/publicsafety](http://ibm.com/smarterplanet/in/publicsafety)

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