

International Council of Industrial Security & Safety Management

Newsletter: February 2017

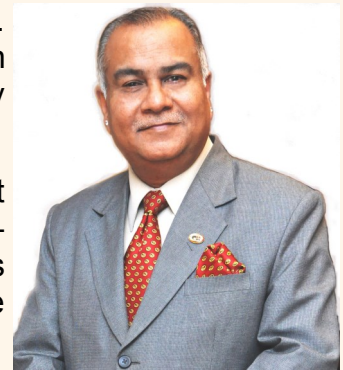


The new-age and new-edge weapons have arrived! They are going to swarm our space like locust in harvesting times! Straight out of science fictions, the drones have the potential to be threat and also the threat mitigation tool in industrial security management. Our past edition was dedicated to the myriad new range of industrial drones which can bring paradigm change in the way security and safety issues were being handled till now.

We have also discussed in our past issue the new emerging threat and vulnerabilities emanating from IoT. There will be surge of wearable devices and net connected gadgets and systems in 2018-19. IoT will be our new vulnerability as well as strength in our communication mainstay! It will dramatically impact our lives.

This issue aims to sensitize our readers about the future of security and safety management. Indian Thought leader in the field of industrial security management - Col Sandeep Sudan writes about Paradigm Shift in the Security Threat Landscape while Col Shiv Chaudhary dwells upon UN Insecurity & Muslim Ban.

For the professional upgradation of our members, we are constantly striving to get them best learning and networking opportunities. While we had very good response through participation in just concluded event by FSAI called FSIE 2017, in the month of March ICISSM has partnered with Pinkerton & FICCI for India Risk Survey 2017. In the month of April we have partnered with SecuTech for its SecuTech India Connect 2017.



Best regards

Capt SB Tyagi

For ICISSM



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Paradigm Shift in the Security Threat Landscape

Col Sandeep Sudan, CFE (Retd)



Col Sandeep Sudan served for 21 years with the Indian Army and commanded a mechanized infantry battalion in active counter insurgency operations in Jammu & Kashmir. Since then, in the last 9 years he has worked on strategic & operational issues dealing with corporate risk management, as part of Mahindra & Mahindra, Pinkerton and Reliance Industries Ltd., where he is currently serving as Head – Special Services Group. He is also on the Board of Directors of the Security Sector Skill Development Council (SSSDC), part of the National Skill Development Corporation (NSDC), established by Govt. of India, which is looking at up-skilling 150 million people by 2022.

Sandeep is a post graduate in Defence and Strategic Studies from Madras University and an alumni of the Indian Institute of Management, Indore, Army Command and General Staff College, Bangkok (Thailand) and Defence Services Staff College, Wellington (India). He is a regular speaker in leading industry events on cutting edge security practices on corporate risk management. Connect with Col Sandeep Sudan on Twitter - @ColSandeepSudan.

Introduction

With the evolution of internet of Things (IoT) the security challenges for industrial security are increasing exponentially.

The 25 billion globally connected devices in 2015 are expected to double to 50 billion by 2024. On an average each individual is expected to be connected to six things online in terms of sensors, smart objects and device clustered systems.

Under this scenario and given the fact that the weakest link will continue to define the robustness of any organizations security architecture, security vulnerabilities are poised to increase manifold, in terms of the scale, intensity and complexity of the attacks.

The effects of these attacks however will not be restricted to the cyber domain alone. They will also impact the physical security of the people and infrastructure, in spite of having the best 'physical security' controls in terms of people, processes and technology to mitigate these threats.

Holistic Approach to Address the Security Threat Landscape

This calls for a multi-dimensional integrated security concept, holistically encompassing physical security, cyber security, information security, business continuity, risk management, compliance & privacy protection and emergency & crisis management.

The convergence between logical and traditional physical security will entail having a cascading effect into these seemingly different dimensions, with the impact multiplying at every stage for instance a cyber-breach can impact safety, which in turn would impact compliance, as also may cause physical damage by aggregating the compound effect impacting business continuity, thereby directly impinging on the bottom-line.

A combination attack using multiple threat vectors can adversely impact the market sentiments in no time- This will lead to long term brand erosion, as well as economic loss to the business, which in turn will have an adverse impact on the industry and the nation at large, especially if critical infrastructure is targeted"

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This has necessitated that we create synergy across the threat landscape to deal with a combination of physical and cyber-based threat vectors. In order to achieve this objective it is important to act in a concerted manner.

As a result Chief Security Officers need to take care of the physical as the digital aspects of security and simultaneously also address the increasingly complex area of compliance.

Convergence not only helps in providing enhanced level of security but also results in cost saving by integrating disparate systems and optimizing resources both in terms of personnel, processes and technology platforms.

Case Studies

I have mentioned five case studies covering an entertainment company, financial institutions, social media platforms and critical infrastructure, to highlight the impact and adverse consequences of cyber and physical security breaches.

Sony Pictures was targeted by hackers who wiped out half of Sony's global network. They erased everything stored on 3,262 of the company's 6,797 personal computers and 837 of its 1,555 servers- At the same time they ensured that nothing could be recovered by using a special deleting algorithm that overwrote the data seven different ways. Subsequently the code targeted each computer's start up software and rendered the machines brain-dead.

A group of cybercriminals successfully targeted 100 banks in 30 countries globally including US, Russia, Ukraine and China after

phishing its targets with infected email attachments. The criminals used their computer exploits to dispense cash from ATMs or transfer cash digitally to accounts they controlled. The USD 1 billion haul was unprecedented in its scope, which Kaspersky reported as under investigation.

LinkedIn confirmed in 2016 that the impact of a 2012 breach in which 6-5 million users' passwords were compromised, is now likely to be closer to 167 million users, 1'17 million of whom had both their emails and passwords exposed.



The 1768 km long Azerbaijan – Georgia - Turkey (Baku-Tbilisi-Ceyhan) crude oil pipeline connecting the oilfields in the Caspian Sea to the Mediterranean Sea was blown up by hackers. They exploited the vulnerabilities of the IP cameras' communication software to gain entry and move deep into the internal network and to blow the pipeline by over pressurizing it. This resulted in a loss of USD 1 billion in export revenue for Azerbaijan and the pipeline was out of action for 20 days.

The Stuxnet virus that was used for spinning several centrifuges out of control at an Iranian nuclear facility was believed to have been transmitted using a thumb drive that was physically inserted in to a computer within the facility.

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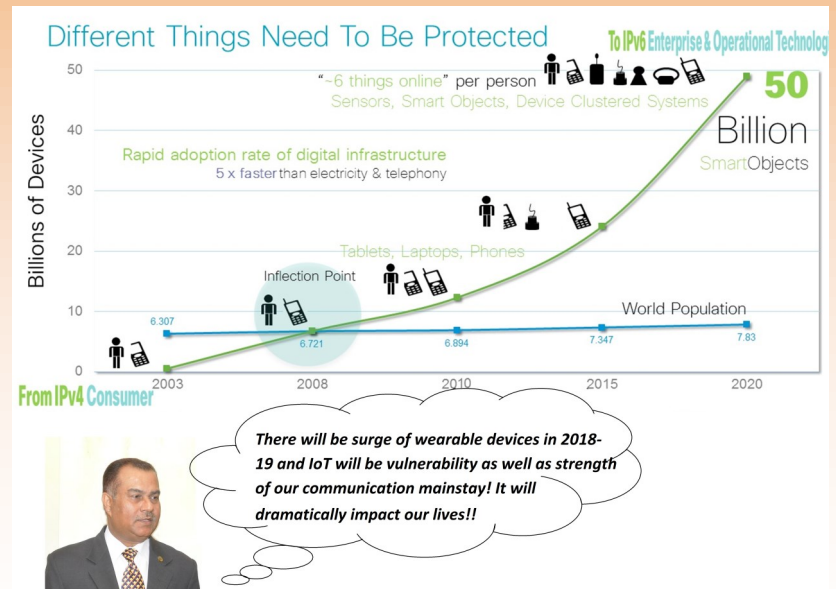
Col Sandeep Sudan, CFE (Retd)

Critical infrastructure is the Most Vulnerable with High Impact

Thus in the future critical infrastructure in particular is likely to be targeted both by terrorist and state sponsored actors. Future wars will be asymmetric in nature. It provides an easy option to the terrorist groups and economically weaker nations to inflict heavy economic loss on their adversaries to include both life and property, by using meagre resources, as compared to achieving the same using conventional manner at a huge monetary cost and loss of lives.

All it takes to target critical infrastructure is a bunch of highly trained cyber hackers who require hardware, software and a high speed internet connection. All of this costs not more than a few hundred thousand dollars and the political will to execute.

The best part is you can do so sitting anywhere in the world and you need not be physically present at the target location. The victim organization / country cannot be very sure of the identity of the perpetrator group / individual country and retaliate immediately, thereby virtually going scot free in terms of facing any consequences and enjoying virtual immunity against any adverse action, due to lack of stringent laws dealing with sharing of data and lack of collaboration at the global level.

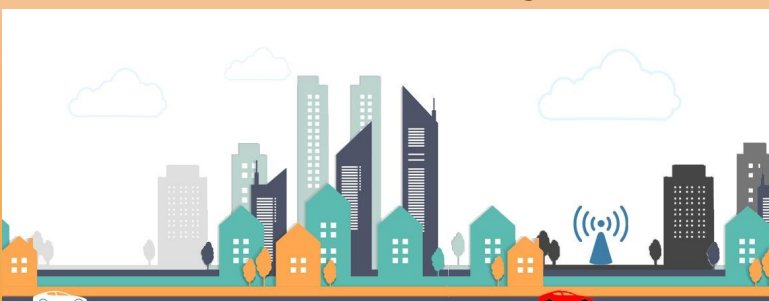


Need for Public Private Partnership and Restructuring of the Traditional Security Organization

Thus there is a need for public private partnership to effectively deal with such scenarios, wherein we pool in the resources of the government and the private sector to address these security challenges to our critical infrastructure and the industry at large.

At the same time there is a requirement to create a CXO level appointment within the organization that should be responsible for addressing the security challenges to include both physical security as well as cyber security.

The CXO should also be integrated with the Government agencies both at the national and international level, for exchange of relevant information, to strengthen and safe guard the people, assets and the infrastructure of the corporate sector.



US Insecurity and Muslim Ban

Col Shiv Choudhary (Retd)



Col Shiv Chaudhary is dedicated, resourceful, result oriented security professional with three decades of senior level Corporate & Army experience in Administration, Security, Operations, SCM (Procurement, Contract Management, Logistics and Inventory Control and Warehousing).

He headed Security & Loss prevention & related security staff admin for two of the top business houses of the world pertaining to Retail & Communication & a multi-vertical security organization getting exposure to 32 different formats like malls, mart, facilities, business towers, ware houses, plants, projects, manpower & offices with 17 managers, 28 SSs & 750 staff spread over 222 sites covering 7 states.

He is ICISSM Councilor representing Jammu & Kashmir. He can be contacted at - shivchoudhary2@gmail.com



Donald Trump is perhaps the only President of world's largest democ-

money, whereas immigration ban was aimed at blocking the unfriendly immigrants entering USA. Is the action of business tycoon quickly turned politician Trump, an effective step to enhance security of American citizens, a mere fulfilment?

of pre-election promise or a major global concern? Is this ban a true reflection of American fears, incapability to draw dirty leads and reduce the terrorists' threats: all done in great haste putting American and American interests abroad at perhaps greater risks along with a political division within the country? American interests abroad at perhaps greater risks along with a political division within the country?

Terrorist attacks in the United States have been on the decline. As per Global Terrorism Database, between 2001 and 2008, there were 168 terrorist attacks resulting into 3,010 deaths including 2,996 Sept 11 attack. Between 2009 and 2015, there were 137 terrorist attacks, killing 114 people. On the contrary, Russia faced 929 terrorist attacks between 2009 and 2015 i.e. six times higher. Two terrorists' attacks during Barack Obama rule: one at Fort Hood taking 13 lives and other in San Bernardino, taking 16 lives, was perpetrated by American and Pakistani citizens. The Boston marathon bombing were executed by two brothers from Kyrgyzstan and Russia. And the perpetrators of the

cracy in the last 70 years who after assuming the power sprang surprise with his far-reaching order to ban immigration of the citizens of seven Muslim nations that stood temporarily stayed by the Courts. His action has made the Americans to wonder about his foreign policies and internal administration as he goes along his task immediately after moving into White House as its new occupant for the next four years. Trump's stayed executive order had barred citizens of seven Muslim majority countries from entering the United States for the next 90 days, suspends admission of all refugees for 120 days and indefinitely suspends the Syrian refugee program. To some of us Indian, it looks somewhat akin to the announcement of demonization by the PM of India in Nov last except that Trump will review the order after 120 days and Mr Modi has buried the issue forever. Of course, the demonization was aimed at blocking the black

US Insecurity and Muslim Ban

Col Shiv Choudhary (Retd)

infamous September 11 attack were immigrants from Saudi Arabia, the UAE, Egypt, and Lebanon but why none of these countries figure in the Trump's ban order?

Trump's ban order is perhaps more influenced by the spate of recent attacks in Brussels, Paris, Turkey etc. The United States cannot equate it with France, because terrorists from the Middle East cannot slip through American borders easily. Some say the decision is out of sheer fear, incorrect advice and misguidance, erroneously tagged with the election manifesto because the immigration over decades from Muslim countries have neither threatened nor compromised the safety of US citizens. Indeed, immigration certificate does not let the security door open ajar for unwelcome guests in USA. Could be the influx in immigration from Muslim countries is out of fear and turmoil prevailing in these countries due to internal oppression and poor leadership.

The refugees referred by the UN for resettlement in the United States too undergo multiple background checks, fingerprint screenings, interviews, and security checks. Syrian applicants specifically undergo additional scrutiny spread over 18 and 24 months. Then what is the fear from immigrants?

Trump's much justified statement saying that travel curb was not about religion or terror, but to keep America safe, was quickly threatened with legal challenge, political opposition and dissidents and raking up \$24 million over a weekend in contributions by various sections and groups.

This prompted Trump to offer conciliatory responses within the span of a day stating previous regime too had stalled entry to Iraqi refugees for six months, America is a proud nation of immigrants and will continue to show compassion to those fleeing oppression, while protecting its own citizens and border and he will resume issuing visas to all countries after next 90 days. Simultaneously, he maintained that there is nothing wrong about searching for terrorists before they seek us. He justified his 'No Notice' saying, any prior notice would have allowed, the "bad" to make a hasty entry inside America. Looks his action was in absolute sync with 8pm (IST), 8 Nov last announcement Modi on demonization where he too cited somewhat similar logic for no breather.



Unlike India, American politicians are taken very seriously for their every utterance, lest they are tagged with poor credibility. To this end, John Kerry lost his presidential race in 2004 because of his dwindling statement over Iraq war and the loose statement made by Barack Obama in 2011 famous "red line" threat against Syria's use of chemical weapons, still haunts all concerned.

US Insecurity and Muslim Ban

Col Shiv Choudhary (Retd)

Here people are astonished to see Trump famous for inconsistency in his stance, standing up to his election promise. The prompt removal of Attorney General for her failure to defend said ban and advice to dissidents' staffers only depicts his resolute.

Enhanced security lies in the integration of its diverse population so that these citizens help law enforcement agencies to pre-empt threats instead of announcing policies targeting people of certain religion or origin. Identity, physical security and economic well-being of the American remains at the center stage for them and factors such as wage stagnation, loss of good jobs to non-American, immigration, low wages, shifting ISIS network, gun culture and rise in drug use perhaps hastened the ban.

Whatever, may be the internal administrative and global strategic impact, Trump has done it.



We, in India cannot brush aside his decision simply because we are not amongst seven nations. It has indeed very serious repercussions affecting us. Skilled guest workers in Indian IT companies will be the worst hit and India produces maximum. The 85,000 H-1B category of guest workers' visas allotted so far on lottery basis, may now be replaced by a method of selection to allow only the "the best and the brightest".

There would be restricted quota for existing Optional Practical Training (OPT) and a job training opportunity available for Science, Technology, Engineers, Math (STEM) Masters from a U.S university. In fact, in 2016, 83% of Indian student were enrolled under STEM programs. Spouses of H-1B visa holders may also face some restriction or could lose their existing permit to work.

Indian having taken heavy loan presently in the job or seeking one, would face a serious threat and dilemma about their jobs, finances and visas. The new system also invites continuous periodic scrutiny of the L-1 visas employers' sites by Homeland Security Staff (DHS). There will be added emphasis on protecting American jobs and workers by restricting travel from other Muslim majority countries.

The citizens of other countries, however humane and loyal they may be to USA, have to bear the inconvenience and mask of nations once suspended by USA. How American forces are going to fight the dangerous ISIS alongside Iraqi forces in Iraq when Iraqi citizens have been banned. Kuwait has also banned entry visas to five Muslim nations and more nations tagged so, cannot be ruled out. Reaction of our notorious neighbor unlikely to figure in the next ban list, will be

US Insecurity and Muslim Ban

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watched interestingly. Whatever may be the arena, Indian government with its projected bonhomie with Trump must protect Indian so affected.

This major decision was taken on the very first day, but its effects on the Foreign Policy of USA, will



be visible even after Trump's last day. Many previous Presidents had to revisit their decisions after reaching the Oval Office; Trump may be no exception. For most voters of Trump, leadership is primarily a matter of trust irrespective of the policies espoused by them. Trump, they feel is the only one who can ensure safe America.

Trump administration has conveyed a clear message on perceived threat from immigrants and refugees. Today, it is seven countries; tomorrow the list may be longer with new ban from different rulers. To me, the USA may be look less safe now but I admire their clear stance. It is time, we in India, messed up with illegal entries from different corners, too look within for a clear position and not hide under the cheap vote bank politics.

(Feedback: shivchoudhary2@gmail.com)

What ICISSM is doing?

Professionalizing the professionals...

ICISS is purely non-commercial forum for security and safety professionals world-wide! It neither is with any support from any business groups nor is it projected by any business house in the background. All its members have no stake in any solution providing or consultancy firms. Their association with ICISS is totally based on mutual benefit of knowledge sharing and networking. We welcome all the security and safety professional world over from diverse background and encourage them to interact freely by asking the questions, replying them or by sharing their knowledge and experience.

The council also strives to have strategic alliances with similar forums world over for furtherance of its objectives.

Formed in 2010, the Council is totally apartisan, apolitical and does not represent any pressure group or interest group. ICISS strives not to provide surrogate platform for anyone to enhance their respective business interest. It is thus totally professionals' body aimed at, 'professionalizing the professionals'!

We in ICISS believe that having different view than the majority is not bad! In fact we encourage difference of opinion and take every different views as intellectual stimulus to either convince or get convinced – either way both the parties are benefitted! Those who dare to think differently have shown that firstly they can think and secondly they are not overawed by the majority views! Such are the traits of 'Thought Leaders' and they deserve our respect!

For more details on our activities, please visit us at - <http://onlineicissm.wix.com/iciss>

What ICISSM is doing?

Professionalizing the professionals...

Dear Security / Safety Professional,

I hope you are doing well!

With this short note, I am trying to disseminate some professionally designed resources (such as white papers, reports, case studies, presentations, webinars, gap analysis tools, etc.) to our member professionals in the following areas (**all these resources are available for free**):

1. Information Security, Logical Security & Physical Security Management
2. Disaster Management & Business Continuity (ISO 27001 and 22301)
3. Quality Management (ISO 9001)
4. Security Service Management (ISO 20000 and ITIL)
5. CPTD Management System (ISO 14001)

You can use the above-mentioned resources to hone your skills with latest **FREE** documents in the above-mentioned areas.

- You can also take the help of panel consultants to get certified in the above-mentioned areas.
- You can get your organization certified in the above-mentioned areas without the need of hiring a full-time consultant.

Upon registering yourself as member of ICISS LinkedIn Group at – <https://www.linkedin.com/groups/4413505/members>

and having sent us the list, we will send the papers / presentations of your choice at your desired e-mail address. You would get periodic updates on new documents, blog posts, webinars, etc. I hope you find these papers / presentations interesting.

Lastly, could you please help me share this message with anyone in your network who may appreciate these resources?

Best compliments,

Capt SB Tyagi
For ICISSM



Don't Talk While He Drives!

ICISSM
International Council of Industrial Security & Safety Management

Forthcoming Events



India Risk Survey 2017

"Your participation will make a difference"

click to participate

<http://irs.pinkertonindia.com>



Risk Factors Considered

- * Natural Hazards
- * Political Instability
- * Terrorism & Insurgency
- * Fire
- * Information & Cyber Security
- * Crime
- * Strikes, Closures & Unrest
- * Corruption, Bribery & Corporate Frauds
- * Business Espionage
- * Threats against Women Safety
- * Intellectual Property Threat
- * Accidents

International Council of Industrial Security & Safety Management

Pinkerton CRM India, International Council For Security & Safety Management (ICISS) and FICCI have launched India Risk Survey 2017.

The esteemed members of ICISS and the readers of its newsletters will be happy to note that ICISS is helping and supporting this survey. The survey is an attempt to recognize possible risk factors while operating in India. The end result of this survey will also be shared with Indian government that will be eventually referred to formulate regulations, critical policy enhancements and strategic decision for commercial organizations. The previous survey results were effectively used by many organizations world over to learn about risk dynamics in India. We value a professional like our readers of the newsletter and members of ICISS and are very keen to get your expert comments through the survey. You can fill the survey by clicking this link:

<http://irs.pinkertonindia.com>.

Alternately the survey form can be downloaded / printed and filled as a hard copy. The report will be presented along with discussion by experts in March 2017 at FICCI, Federation House in Delhi, India. We would be glad to share a complimentary copy of the report with you.

Forthcoming Events

Proud to partner with...



secutech INDIA CONNECT

06 - 07 - 08 April 2017 Bombay Exhibition Centre, Hall No. 1,5 & 5A Mumbai



**SECUTECH CONNECT IS
WHERE IDEAS TURN INTO REALITY.**

For more details on the event, you may like to contact -

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