



ITU-ATU CyberSecurity workshop in African Countries Khartoum, Sudan



CyberSecurity:

A practical overview Zain-SD Experience



24-25 July 2016

Effective InfoSec Standards

Eurocrypt

European Cryptology Conference

CCS

ACM Conference on Computer and Communications Security



International Organization for Standardization

Crypto

International Cryptology Conference

Security

Usenix Security Symposium



International Organization for Standardization



RSA

Ron Rivest, Adi Shamir, Len Adleman



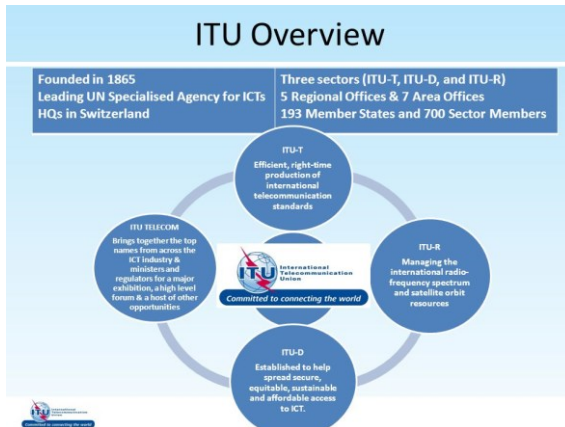
S&P

(Oakland)

IEEE Symposium on Security and Privacy



International Organization for Standardization





Zain Sudan is ISO Certified for Quality and Security since 2008

International
Organization for
Standardization

International
Organization for
Standardization





InfoSec Story

How to start and effective successful **InfoSec** program

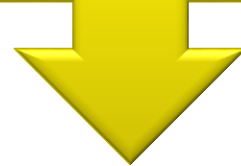
- Selling InfoSec Plan to the Board – Huge work to do and then we should follow these points

- **People** (training and awareness, management ,,,)
- **Technology** (Firewall, encryption, IPS, IDS DLP, Endpoint,
- **Environmental** (other security issues)
- **Monitoring**
- **Revision** and update



People (training and awareness, ,,,)

Let us see what the BIG-Brothers
saying



***Ira Winkler Stole a billion Dollars' worth of
information from a leading corporation ?***

Top IS Expert , author of Corporate Espionage

And Spies Among us and more other books

What is his advice



Starting

LACK of AWARENES



Threat



IN RESEARCHING THIS BOOK, I SPOKE TO BOTH SCOTT Charney, chief of the Department of Justice Computer Crime and Intellectual Property Section, and Robert Gates, former director of Central Intelligence and the Central Intelligence Agency. They both concurred that one of the biggest problems companies face in their efforts to secure their sensitive information is their lack of awareness of the threats around them.

Accurate assessment of the level of threat against your



Build up InfoSec Awareness Program





Continue the InfoSec Awareness

InfoSec Week for all the Staff.

InfSec week 2011

- **Be aware** of what the risks are and what countermeasures you should take.
- **Guard** your computer against information security threats.
- **Continue** the cycle. Continue learning and continue sticking to the measures.

BE - Threats & Risk Assessment
Zain InfoSec Week 2011

www.zain.com A Wonderful World

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InfSec

A wonderful world

InfSec week 2011

Quality is not an act, it is a habit, and a good one

A Wonderful World

www.zain.com



InfSec week 2013

Insurance and Risk
"Insuring your future... Today"

Business Continuity
"BCM is not a project, it is a culture"

Risk Management
"To succeed, we run the risk of failure"

Securing Business & Personal Information Assets
"Highway of threats"

Information Classification and Strategy Risk Analysis
"Information classification, first step"

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Technology (Firewall, encryption, IPS, IDS)

Baseline Security

If you are ISO certified you will Know exactly what is Baseline Security

This is a **must**

Security Strategies, Policies and Compliance Antivirus-Firewall, Threat Management



What is enough.....

Putting all these InfoSec Tech is not enough!!

Adding more security system??

Get the best of the best.???

That will not make it better.....

We must consider the whole journey



The weakest Link:

Social Engineering (David Mitnick)

Management and followup

Budget and ROI issue

Monitoring and action

- Healthy Check and Audit
- iSOC for NW and Databases Activities





Keep it up and keep it updated

**We are trying to keep everything
up-to-date**

**Review our security and enhance what
is need**

**We shifted from InfoSec to Risk Based
InfoSec.**



Thoughts Vendor and regulations

- **Buy a computer that is by default secured,,,**
- **UTM that has no back doors**
- **An operating system that with everything needed to operate securely**
- **an application that is not stealing my information**



Thank you