Organisational Aspects of confidentiality protection and Privacy Concerns

REZA AFKHAMI
Senior Data and Support Service Officer
UK Data Archive
C.I.A
Evolution of Information Security

First Generation – Technology Focus
(1G)
Technology Focus
Firewalls, Anti-Virus, IPS

Second Generation – Process Focus
(2G)
Process Focus
ISO 27001, COBIT

Third Generation – Human Element
(3G)
Human Element
Focus on people that use the technology and processes
SOCIAL ENGINEERING
The clever manipulation of the natural human tendency to trust.
Weakest link
Challenges
Security Tradeoffs

- Risk of Security Trade-Off vs. Personal Inconvenience
- Risk of Security Trade-Off vs. Cost (Cost = Life, Career, Money, Time etc.)
Strategies for Increasing Information Security Competence

• Step 1: Set Goals
• Step 2: Increase Security Perception by conveying Concepts
• Step 3: Increase Security Acceptance
• Step 4: Applying Security Skills
• Step 5: Linking Security with the organizations Goals
• Step 6: Continuous Measurement
Assessment and Audit

- Obtain an accurate understanding of your security and risk posture
- Comprehensive reporting, relevant to your organization and stakeholders
- Comply with industry regulations and information security best practices
Human Information security

- **Security Perception**: Individual awareness of information security
- **Security Acceptance**: Accepts information security as an important work-habit in spite of personal inconvenience
- **Applying Knowledge (Skills)**: Using security skills & ability to evaluate risks
- **Commitment to organization**: Follows security practices and procedures
Concepts behind information security practices

Culture + Organizational Eco-system + Individual behavioral drivers

Influences

Individual work practices

Impacts

Information Security
Information Security Culture

- Information security culture concept
- Information security culture interpretation

- Society
- Organization
- Individual

Time duration needed to make changes
Holistic approach
Education and Training