



ISO/IEC 27003

(ISMS Implementation Guidelines)

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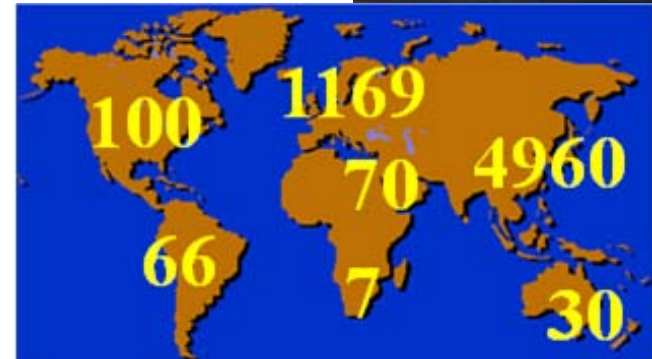
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Introduction

- What is ISO/IEC 27003?
- ISO meetings – Melaka, 2010
- Case Study
 - *Getting management buy-in*
 - *Design the ISMS*
 - *Security requirements*
 - *Assessing risks*
- Conclusions



What is ISO/IEC 27003?

Purpose and philosophy

- Guidance document
- Too recent / narrow to be best practice
- Provide practical guidance in developing an *implementation plan* for an ISMS
 - *Prepare plan*
 - *Define project structure*
 - *Gain management approval*
 - *Recognise critical activities*
- Does not cover operational activities

Structure of the standard

- Usual preamble
- 5 'project' phases



- Supporting annexes:
 - *Activities re 27001; roles & responsibilities*
 - *IA planning; policy structure*
 - *Planning of monitoring and measuring*

Is it any good?

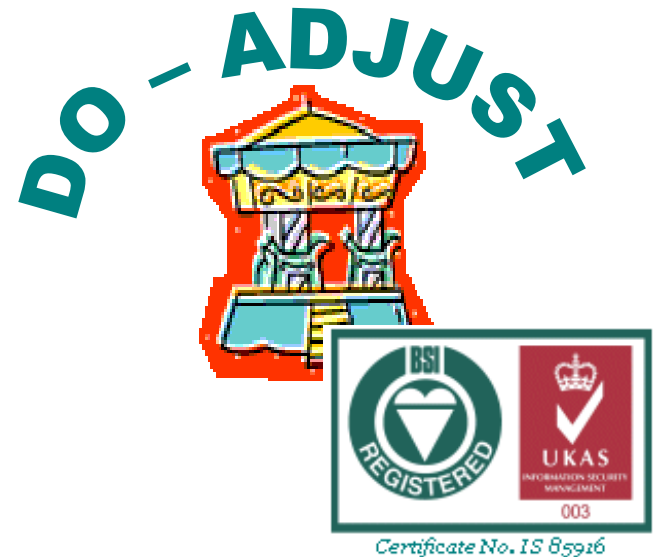
- Yes, but ...

- Remember:

- *It is the operational ISMS that is certified, not the project*
- *Many different ways to run a project*
- *Standard assumes a particular context which may not be true for you*

Why a project?

- Operationally an ISMS is more like a carousel:



Why a project?

- For a start-up it really is a blank sheet of paper
- But for an established organisation it *will* exist
- Although it may not conform to ISO/IEC 27001
- You must make it so



Why a project?

- The project is to make your 'ISMS' conformant to ISO/IEC 27001
- Start-up: create from scratch
- Established: reverse engineer
- Completes with certification
- It will be, however, be fully operational before the Initial Audit

DO - ADJUST



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ISO meetings – Melaka, 2010

ISO meetings, Melaka 2010

- ISO SC 27 meets twice a year
- Last one (April) in Melaka, Malaysia
- This standard – WG1
- Just published so revision in a few years
- BUT, a wealth of implementation is being exposed
- We need to get it written down



Case Study

Case study – ground rules

- Draw together a variety of experiences
- Large organisations: Mauritius and elsewhere
- Small-medium organisations
- Project and **operational perspectives**



Proper Integrated MS, using IMS-Smart Architecture, covering 9K & 27K, Exlayer has BS25999 as well



Management buy-in

- Absolutely essential
- Create ownership from the outset
- Must want a management system to manage the business more effectively, not a certificate
- Whether a business case is required depends on many factors, often *outside* your control

Project organisation



- All three are cars but are designed with different operational objectives in mind
- Don't worry about documentation/records, it's the people that count
- If the Jag was to be chauffeur-driven it would have a longer wheel base
- A management system is a managing capability, not just a documentation/record set
- The project must deliver that managing capability
- Therefore it is the operational people that need to be trained
- Ideally they should be involved in the build

Security requirements

- In 99.99% of cases you are reverse engineering conformance out of existing out of an existing context
- SOA is a good place to start – just document what is being done



- To do otherwise you will build a Vasa:



- Instead build bubble cars and grow them into spaceships

Continual improvement
(section 8 of 27K)



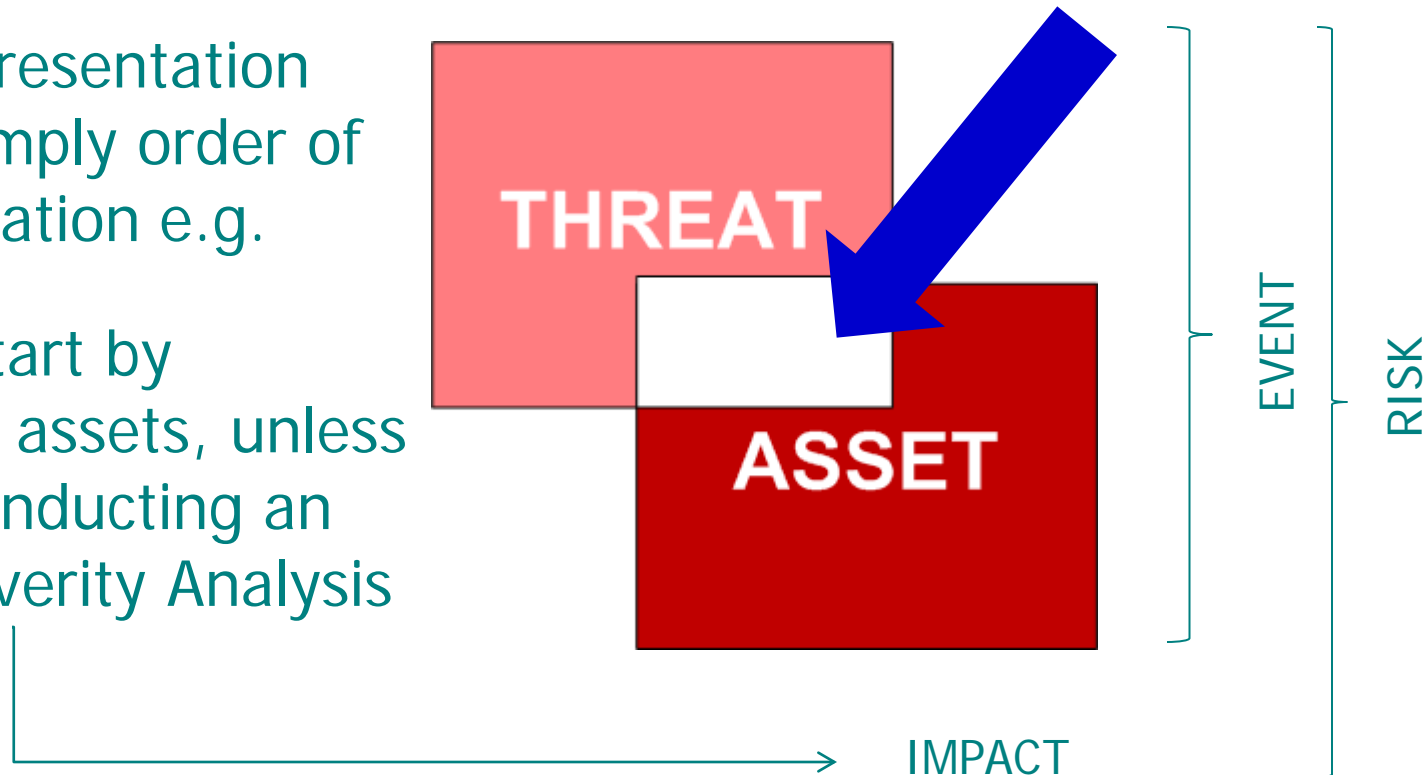
Risk appetite

- If analysis exposes unacceptable risks, they must be treated immediately:
 - *Knowingly accept the risk (and minimize it)*
 - *Avoid risk by ceasing operations (in that area)*
 - *Introduce/modify controls to:*
 - Reduce frequency/likelihood of occurrence*
 - Reduce severity of consequence*
- Remember you are exposed throughout the time it takes to treat the risk
- All applicable controls must be operational

Risk assessment

- ISO/IEC 27001 is a specification
- Order of presentation does not imply order of implementation e.g.
- DO NOT start by identifying assets, unless you are conducting an Impact Severity Analysis

Vulnerability associated with the asset that the threat has the capability of exploiting



Risk assessment/ treatment

■ Remember:

Assessment of
risk

Treatment

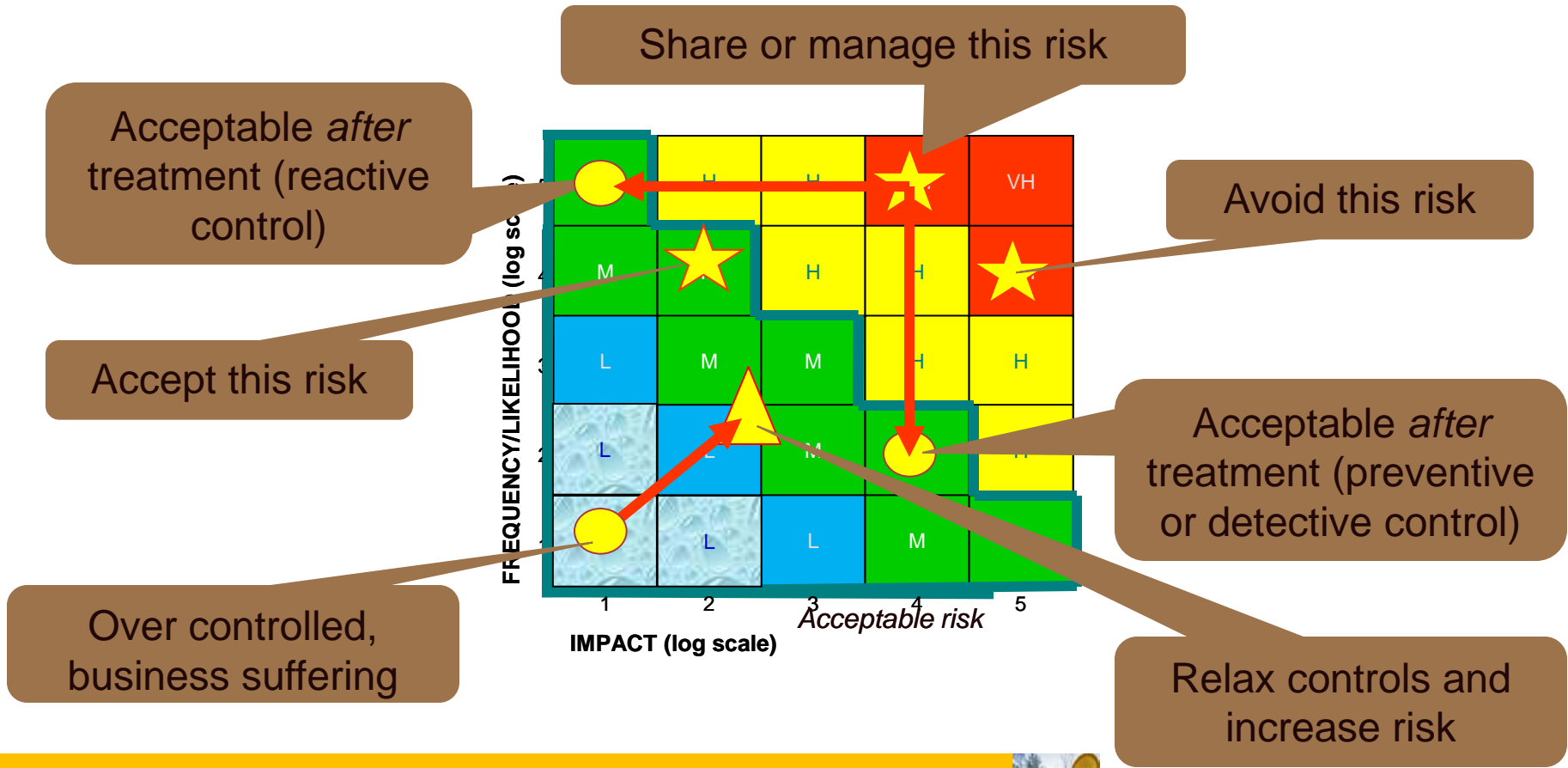
Selection of
controls (and
other actions)

- If you are bogged down in numbers and/or management does not understand it, something is seriously wrong

"I spent £25,000 on a risk assessment. The trouble is, my MD doesn't understand any of it"



Risk treatment



Controls modify risk (ISO Guide 73). Most of what is in ISO/IEC 27002 are NOT controls. At best they are parts of controls. Some are actually groups

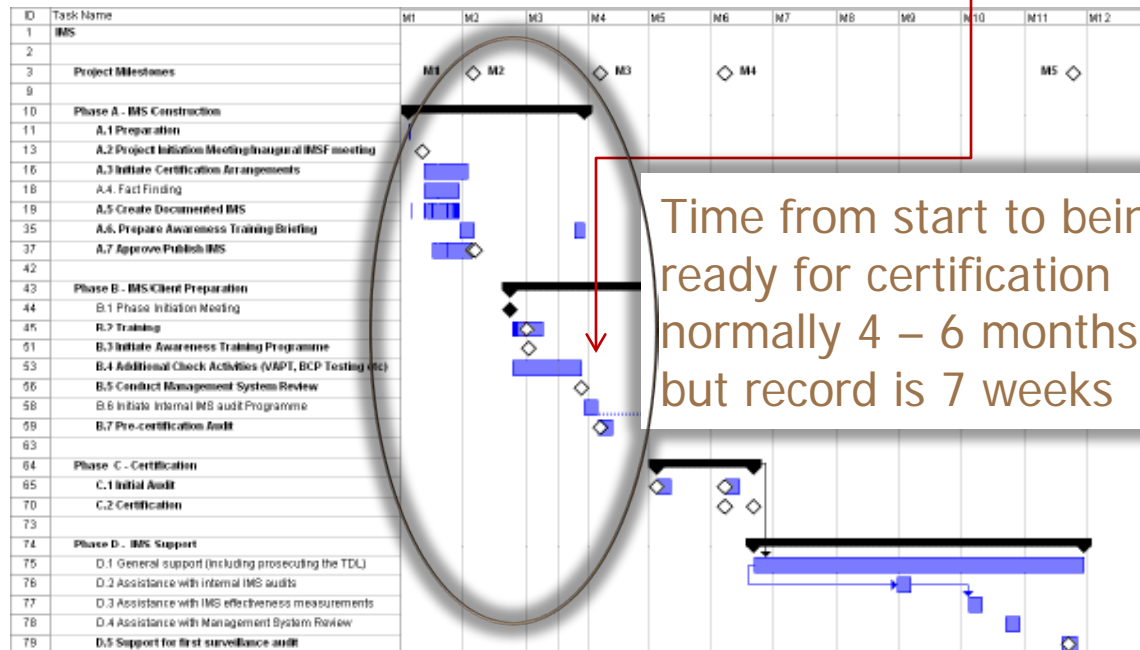


Project plan

■ Here's mine

Scope of 27003

ISMS operational about here



Time from start to being ready for certification normally 4 – 6 months, but record is 7 weeks

■ See <http://www.ims-smart.com/PIPS/index.php>

Conclusions

Conclusions

- ISO/IEC 27003 addresses an important component of creating an ISMS managing capability
 - *Does not address operational issues*
 - *Assumes a particular paradigm*
 - *Perhaps does not go far enough*

- Is it helpful – Yes

- Is it a substitute for an expert - No

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Guidelines)

Any Questions?



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