

سمینار آموزشی سیستم مدیریت امنیت اطلاعات بر پایه سیاستهای استانداردهای BS7799 & BS15000

سمينار آموزشي چهارم



Part Four

BS7799-2 Certification Process
INFORMATION SECURITY MANAGEMENT SYSTEM



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Agenda



ISMS Certification Audits

- Certify?
- Structure of BS7799 certification
- Auditing(Audit methodology)
- BS7799-2 Certification Why and How?(Assessment)
- How much it costs?
- Report audit results
- Corrective Action/Follow up(Certification decision)
- ISMS Scope of certification
- Surveillance and Recertification audits





Do you protect all your company assets?





■ Do you know all risks relating to your processes and business continuity?



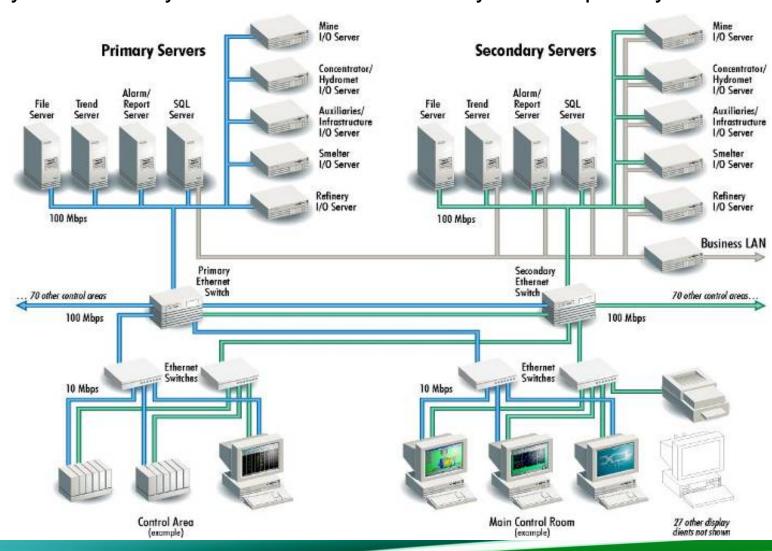








Do you know a systematic way to tackle with attacks to your complex systems?





■ How reliable are your solution in this battle?



Business is a world of Managing Risks







Structure of BS7799 certification

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Certification



■ Certify:

to state (something) officially, usually in writing, esp. that

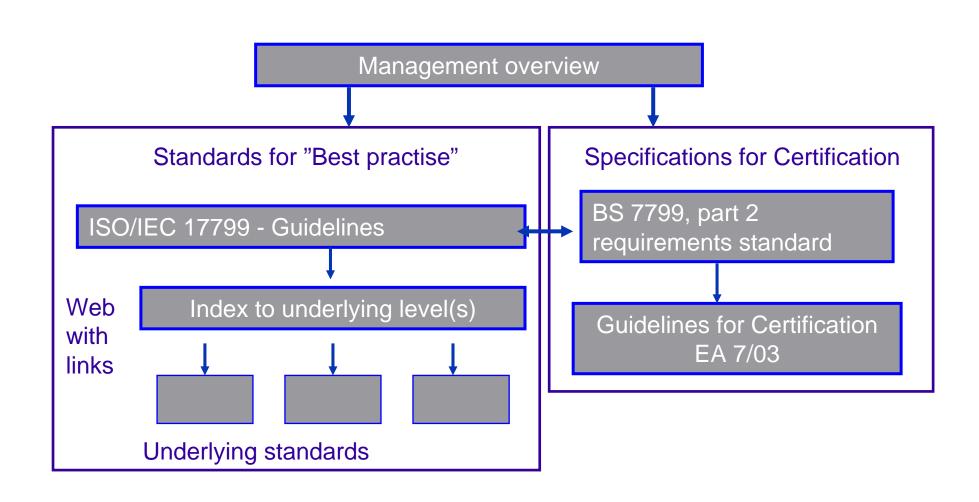
(something) is true or correct

(from Cambridge International Dictionary of English)



Structure







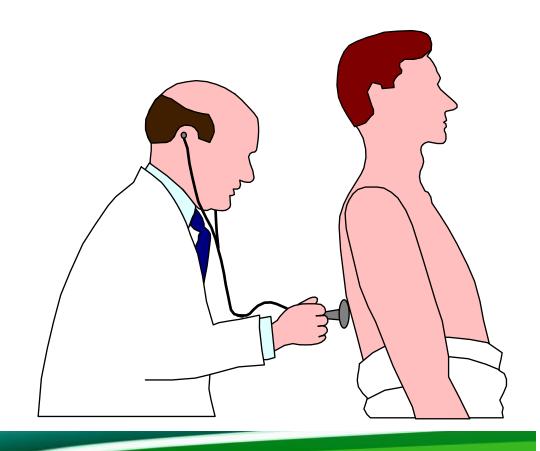
Auditing

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WHAT IS AN AUDIT?



- A health check
- Key words
 - Systematic
 - Documented
 - Periodic
 - Objective
 - Verification



KEY CONCEPTS



- Systematic Carried out in accordance to set protocols
- Documented Reports are prepared
- Periodic Conducted to established schedule
- Objective Auditors have some independence
- Verification Evaluate compliance to requirements

What is an Audit?



3.9.1 audit

■systematic, independent and documented **process** (3.4.1) for obtaining **audit evidence** (3.9.4) and evaluating it objectively to determine the extent to which **audit criteria** (3.9.3) are fulfilled.



WHY AUDIT?



- Determine Information Security system effectiveness
- Identify existing nonconformities
- Highlight areas of strength
- Point out areas for improvement
- Identify requirements for corrective and/or preventive action



SUMMARY - KEY QUESTIONS



- Is ISMS based on identification/evaluation of risks?
- Are there procedures to address all clauses of standard?
- Is system being implemented consistently and systematically?
- Does the ISMS deliver performance improvement and regulatory compliance?



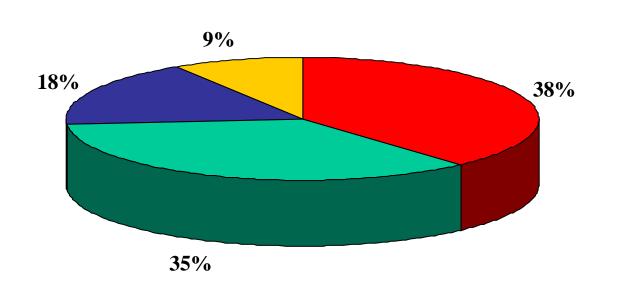


BS7799-2 Certification Why and How?

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BSI-DISC survey 1999 in cooperation with Admiral Plc.

- **■** Best Practice
- Business Security
- **■** Competitive Advantage
- Demand from Customers

Other reasons quoted for seeking Certification include:

"To show compliance with the new Data Protection Act"

"To be able to request compliance from other organisations"

"To facilitate compliance with best practice framework"

Path to Certification

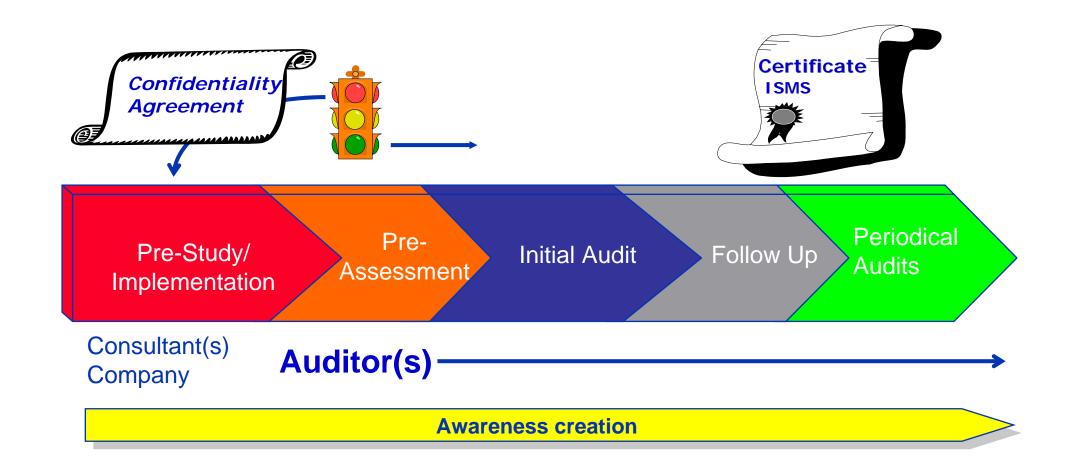


| BS 7799 CERTIFICATION | | | | | | | |
|----------------------------------|------------------------------|-------------------------------|--------------------------------|-------------------------------------|--|-------------------------------|--|
| RECCOMENDATION FOR CERTIFICATION | | | | | | | |
| EXTERNAL REVIEW | | | | | | | |
| FIXING NON-CONFORMANCES | | | | | | | |
| INTERNAL AUDIT AND REVIEW | | | | | | | |
| IMPLEMENTING SECURITY POLICY | | | | | | | |
| RISK ASSESSMENT | RISK ASSESSMENT REPORT | BS7799 CONTROL DOCUMENT | SCOPE OF POLICY DOCUMENT | PREPARING THE POLICY DOCUMENT | MAPPING BS 7799 DOMAINS TO POLICY DOCUMENT | STATEMENT OF APPLICABILITY | |
| Developing ISMS | | | | | | | |

- »Review of Documentation
- »Selecting Team for Internal Audit
- »Training for Users
- »Conducting Internal Audit
- »Finding Non-Conformances
- »Fixing Non-Conformances
- »Final Management Review

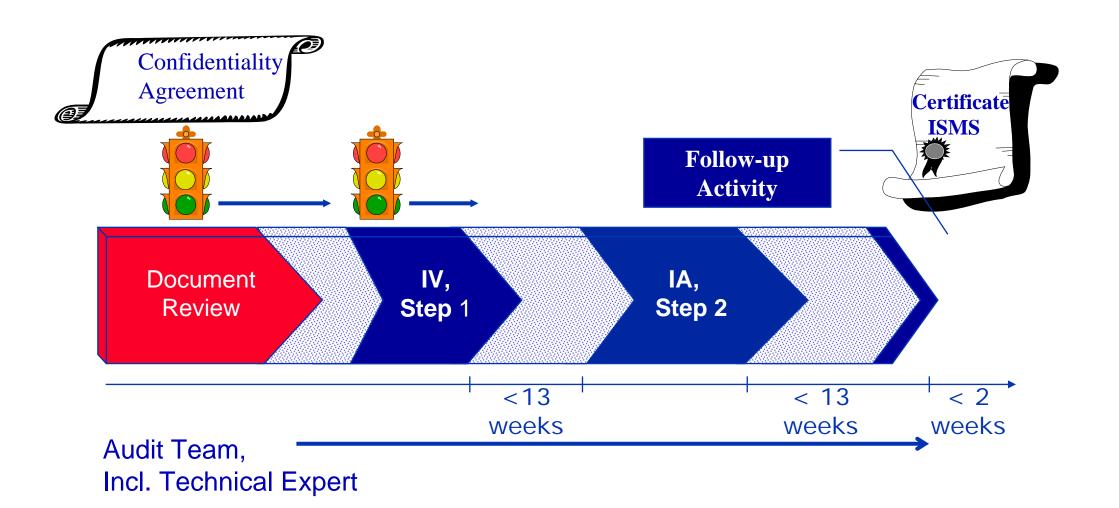
When can certification take place?





Initial Audit Process





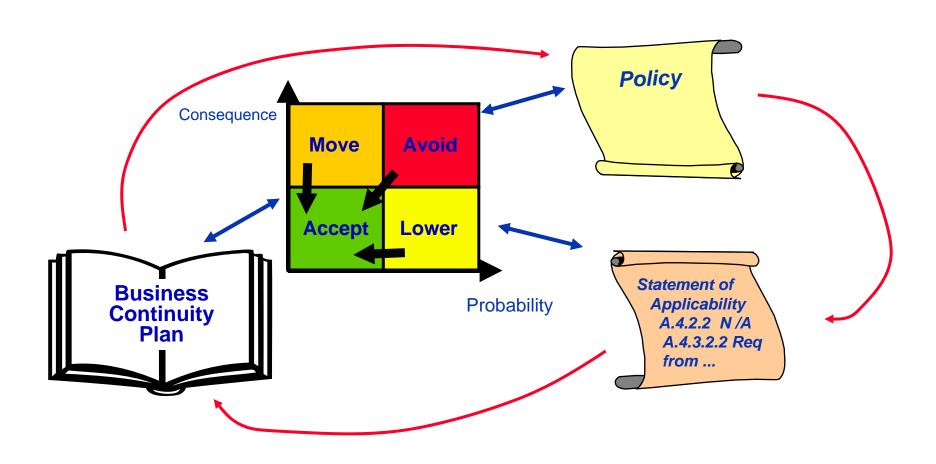


Steps in the initial audit process

| Document review | Step 1 (IV) | Step 2 (IA) | |
|---|---|--|--|
| System documentation ISMS Policy Scope IT-environment documentation Statement of Applicability Risk analysis Business Continuity Plan | Presentation of the report from the document review Initial technical evaluation | Presentation of the report from Step 1 Implementation of ISMS to be evaluated Validation of conformance with requirements | |
| Result Report | Result Report Non-conformities, to be closed before Step 2 is initiated | Result Report Non-conformities, to be closed before the certificate is handed out Recommendation to Certification | |



The risk Assessment is the focal point



What happens during a certification audit, 1?





Records available?



- Risk Analysis/Assessment
- Business Continuity Plan
- Policy
- Statement of Applicability

- Correct and relevant?
- Known and tested?
- Communicated?

What happens during a certification audit, 2?





Continual

- Security in job definition and resourcing
- User training
- Virus control
- Protection of important acts and registers
- Data protection



What happens during a certification audit, 3?



- Incident reporting
- Software copyright compliance
- Compliance with legal requirements
- Technical Compliance



- Records available?
 Followed up?
 - Preventive actions identified?



What happens during a certification audit, 4?





Records available?



MANAGEMENT REVIEW

Regularity of meetings?

Commitment shown?

Improvement suggestions?

Security policy



BS 7799-2:2002, Annex A

The auditor verifies:

- Management commitment
- That the security policy is known
- Compliance



- Provide direction
- Show commitment

Random samples and objective judgement

Statement of Applicability from an audit point of view



The auditor verifies:

- How the implementation of controls and control objectives are conformed to within the organisation
- Selections made

The auditor evaluates:

- The risk analysis
- The security level

Random samples and objective judgement



Co-ordination with other audits



Management System

Occupational Health and Safety

Environment

Oughte Economy

Economy

- Quality Management System
- Environmental Management System
- Occupational Health and Safety Management System
- Information Security Management System



Certification of ISMS will



- Heighten security awareness within the organisation
- Identify weak parts in the Business Risk Assessment
- Improve the structure for continuous improvement
- Improve the system
- Be a confidence factor internally as well as externally
- Enhance the knowledge and importance of security-related issues at the management level
- Ensure that "knowledge capital" will be "stored" in a business management system
- Enable future demands from clients, stockholders and partners to be met



How much it costs?

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Cost of an initial certification



Depends on:

- The size of the company
- Scope
- Impacting factors (business activity/company structure)
- IT-structure (size and complexity)
- The readiness for certification within the company
- Prior certification



~ £10,000 for a company with 100 employees provided medium impacting factors and medium size and complex IT-structure.



Reporting audit results

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The Audit Report

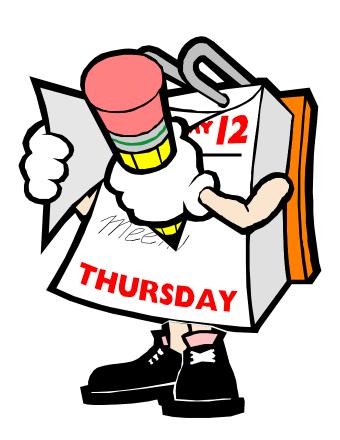


- Provides summary of audit results
- No surprises
- Formal record
- Lead Auditor is responsible

Contents of Audit Report



- Purpose of audit
- Date
- Audit team
- Scope/areas covered
- Key contacts
- Information Management System documents
- Summary statement
- Areas for improvement
- Action items
- Appendices
- Completed checklist
- Copies of Corrective Action Requests (nonconformities) submitted for auditee response
- Follow-up schedule





Corrective Action/Follow up (Certification decision)

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Corrective Action/Follow-up



Key Points:

- Reviewing corrective action responses
- Conducting effective follow-up audits

CORRECTIVE ACTIONS



RESPONSIBILITIES

"The auditee is responsible for determining and initiating corrective action needed to correct a nonconformity or to correct the cause of a nonconformity.

The auditor is only responsible for identifying the nonconformity."

ISO 19011

If Corrective Action is Inadequate ...



- Follow audit procedures
- Escalate to management for review, if required

FOLLOW-UP VISITS



Opening Meeting



Investigation



Closing Meeting



Scope of certification

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- The organisation should define the scope of the Information Security Management System (ISMS)
- Interfaces/delimitations should be identified and included in the risk assessment; i.e. "shared site"
- The certification body shall secure that the risk assessments are relevant and mirror the business area for the chosen scope



EA 7/03



Surveillance and Recertification

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Surveillance and Recertification audits



- Surveillance audits at yearly basis
 - semi-annual, every nine months or once a year
- Audit methodology the same as during a certification audit
- Surveillance audits may be combined with audits of other management systems whereby the complete business management system is audited at the same time

Reassessment after 3 years...



A reference to start with



- http://www.xisec.com/faqs.htm
- http://www.bs15000.org.uk

