

Technology Configuration Metrics (cont'd)

Pros

- Excellent technical security details
- Very specific commands (IOS, UNIX, NT/2000)
- Good security configuration education material

Cons

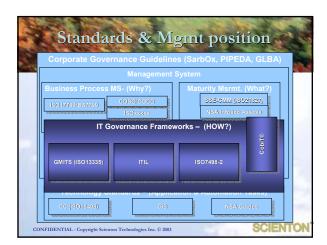
- OS version dependent
- Labor intensive very little automation
- Frequent administration staff configuration errors
- No basis for risk analysis

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IT Governance Metrics (cont'd)

Pros

- IT process based Very good lists of process & technology controls
- Describe the process for risk analysis
- Very good guidelines to assist security management implementation

Cons

- Only describe controls applied to IT processes
- Controls predefined and mixed with technology automation
- Risk analysis process described at the high level
- Relation between controls and risk analysis not defined

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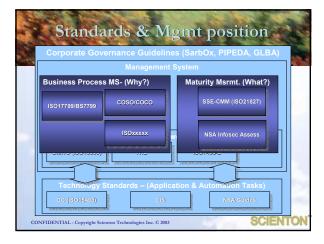
Metrics pros

- Good for the audit process definition
- Complements technology standards to add to the metrics

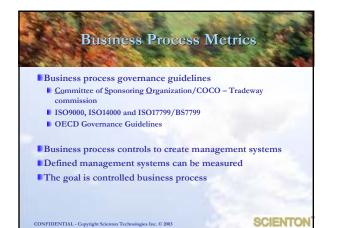
Metrics Cons

- Baseline not clearly defined goals, technology and process mixed
- Controls are changing as IT technology and processes change
- Mixture of controls, processes, and technology does not provide for defined metrics structure
- Subjective and ad hoc approach to risk & control selection

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- Business process controls pros
 - Very good for framework for business process improvement
 - Good for management to achieve compliance to legislations and acts (SarbOx, Basel II, HIPAA)
 - Streamlines the control implementation process
- Business process controls cons
- Very high level controls that apply to the business process
- Disconnected from technology and operations
- Risk framework is very ad hoc and high level defined for business processes
- Very document driven and overwhelming

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Business Process Control Metrics

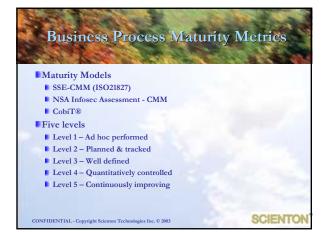
Business metrics pros

- Very good for internal auditors
- Business and executive management awareness
- Practices to measure the legislation & act compliance

Business metrics cons

- Very high level to measure the controls of the business process
- No measure of technology and operations
- Very subjective as there is no clear guideline, just protocols descriptions

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- Very good definition of business process control implementation
- Excellent executive management guideline tool

Maturity cons

- Very broad in definition of steps and levels
- Organizations can broadly audit levels
- Risk management is done but how?
- Subjective interpretation of terminology and maturity requirements

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Business Process Maturity Metrics

Maturity metrics pros

- Good to get the understanding of management system
- High level metrics for executive management
- Process to define the security management system implementation improvement

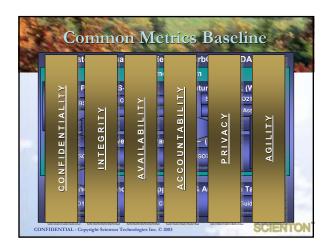
Maturity metrics cons

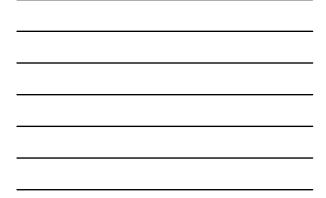
- Difficult to measure process implementation
- Very subjective metrics as the level is open to interpretation
- The quality of process is not defined (risk management not defined)
- Only management system maturity is measured

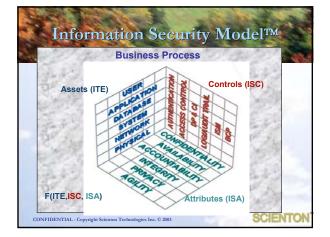
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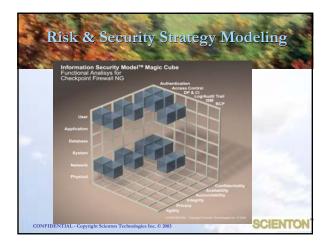




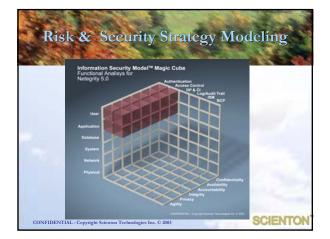
Security Software Analysis

- To protect network and to control user access implement firewall WE HAVE SECURITY !
- After firewall implementation risk is low is it?
- Can we see what have we accomplished with the firewall implementation?
- CheckPoint Firewall Requirements
 - Control access to networks
 - Control access for users
- Can we use other security controls?

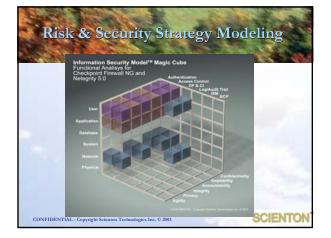
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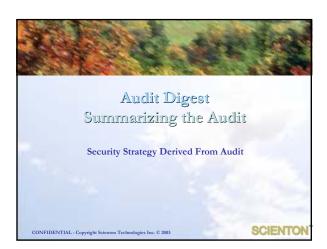


Software Security Analysis Result

- Understand what has been implemented
 - Visualize and understand security system gaps
 - Discover the complementary products to fulfill the gaps
 - Ability to plan budget, resources and time
- Security officers can report this to executives CxO will understand it
- Ability to optimize and streamline security investment
- Simple approach for security professionals to gain the credibility in the organization

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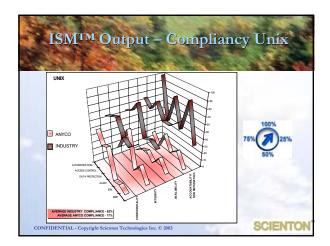
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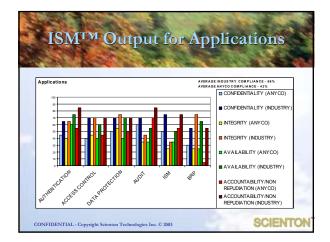
Audit Digest Requirements

- Client Insurance Company
 - Audit performed CIO could not understand the information
 - CIO request:
 - 1) Compliance with industry standard & industry vertical
 - 2) Comprehensive report with security strategy vs. 500 page audit
- Solution Scienton Information Security ModelTM
- Used existing audit report in combination with ISMTM
- Summarized and calculated compliance
- CIO surprised: Good document, but poor ranking for the firm
- Scienton: Developed short and long term security strategies to improve the firm's risk compliance ranking

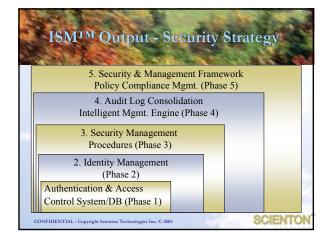
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Advantages of the proposed approach Quantitative (risk & security metrics), constant in its application and therefore defensible Provides a managerial tool necessary for non-technical managers to manage information risk and make appropriate real time decisions Can be tailored for progressive implementation (a long-term vision to be reached in incremental steps, through early and repetitive wins) Models privacy as one of its components

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ISM™ Risk & Security Modeling Advantages

- An initial risk analysis that can easily be updated and maintained:
 - Takes care of the complexity of the technology environment automatically (cost effective process)
 - Continuous Risk Management and Security Management
- Thorough and standardized : looks into all aspects of security (ISO and CobiT®)
- Adaptive, scalable and tailored to any industry vertical needs
- Seamless, simple, understandable and visual blueprint for security strategy development

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Risk & Security Modeling Summary

- Successful business level modeling
 - Clear findings using Scienton Information Security ModelTM
 - Calculation of compliance to Governance, Policies & Standards
 - Real time information for security and risk management strategy

ROI through:

- Efficient, reliable risk assessment quick and standardized
- Streamlined investment through corporately aligned strategy
- Clear plan with ability to define budget requirements
- Optimized & planned implementation = Minimum business risk

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