







Risicoanalyse: The Beer Tender Trial


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The Beer Tender



-  **Volume Indicator:** Shows how much beer is left in the keg
-  **Freshness Indicator:** Beer stays fresh 30 days from tapping
-  **Temperature Indicator:** Shows actual Beer temperature
-  **Temperature Control:** choose from 3 temperature settings.

Asset valuation



Assumptions for the valuation of CIA:


C: the amount of tapped beer could be revealed
I: the indicators for beer temperature and freshness can be manipulated
A: someone steals the beertender display

Value	Financial Loss	Embarrassment	Disruption of business activities	Public Order
1	< € 1.000	Department	< 10%	Shrug shoulders
2	€ 1.000 - € 10.000	Corporate	10 % - 50 %	Grumble
3	> € 10.000	CNN	> 50 %	Strike

Owner	Asset type	Valuation		
		C	I	A
IT	Beertender	1	3	2

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Threats and vulnerabilities



Amount of BEER revealed

- Network Intrusion – Insecure Network Architecture

Wrong BEER (Overdue/Warm)


- Unauthorised System Access – Use of weak passwords

No BEER

- Theft of the Beertender display - Inadequate use of physical access controls

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Impact & Likelihood




Likelihood	Definition
1	Less than twice a year
2	Between 3-5 times a year
3	Over 5 times a year

Impact	Definition
1	If the vulnerability is exploited, up to 33% of the asset will be lost
2	If the vulnerability is exploited, up to 66% of the asset will be lost
3	If the vulnerability is exploited, the asset will be completely lost

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Threat - Vulnerabilities




Amount of BEER revealed

- (Asset Value C=1)
- **Threat:** Network Intrusion
- **Vulnerability:** Insecure Network Architecture (routers, firewalls, etc.)

- **Likelihood:** 1
- **Impact:** 2
- **Risk** = 1 x 1 x 2 = 2
- **Possible control:**
 - 11.4.7 Network Routing Control

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Threat - Vulnerabilities




Wrong BEER (Overdue/Warm)

- (Asset Value I=3)
- **Threat:** Unauthorised System Access
- **Vulnerability:** Use of weak passwords

- **Likelihood:** 2
- **Impact:** 3
- **Risk** = $3 \times 2 \times 3 = 18$
- **Possible control:**
 - 11.3.1 Password Use

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Threat - Vulnerabilities




No BEER

- (Asset Value A=2)
- **Threat:** Theft of the Beertender:
- **Vulnerability:** Inadequate use of physical access controls

- **Likelihood:** 2
- **Impact:** 3
- **Risk** = $2 \times 2 \times 3 = 12$
- **Possible control:**
 - 8.2.2 Security Awareness, education & training

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Security Plan

Risk=18:

- 11.3.1 Password Use


Risk=12:

- 8.2.2 Security Awareness, Education & Training

Risk=2:

- 11.4.7 Network Routing Control

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Further reference

Information Security Governance.com - Windows Internet Explorer


http://www.information-security-governance.com

Permalink: http://www.information-security-governance.com



Information-Security-Governance.com

IT Audits - Security Consulting - Training



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- Training

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Presentaties en artikelen

- Van Risicoanalyse naar Security plan
- Seriously Seeking Security (SBIT congres 2007)
- ISO17799 & Risicoanalyse: Vrienden of Vijanden?
- Information Security Governance, casus bij financiële instellingen
- Invoering van ISO 17799: een succesvolle aanpak
- ISO2700x Implementation & Audit Summary
- SANS ISO27002 Checklist (PDF)
- NIST 800-12 An Introduction to Computer Security: The NIST Handbook (PDF)
- NIST 800-16 IT Security Training requirements (PDF)
- NIST 800-30 Risk Management Guide for IT systems (PDF)
- NIST 800-50 Building an IT Security Awareness and Training Program (PDE)
- ENISA Information Security Certifications (PDF)
- GOA Information Security Management: Learning from Leading Organizations (PDF)

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