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Risk Assessment for PCI 2.0 Requirement 12.1.2 using SMART-RA

Presented by Dharshan Shanthamurthy, SISA Information Security.

SISA Background



- SISA: Information Security Specialists
- Three Competency Centers namely Consulting, Training and Products. Fifteen Intellectual Property Rights in Information Security Space.
- Headquartered in India with subsidiaries in Delaware-USA, Kula Lumpur-Malaysia, Manila-Philippines and Bahrain.
- Customer Footprint in over <u>21 Countries</u> spread across Banks, Information Technology, Insurance, Telecom and Retail.
- Recognized by CERT-India as specialist Information Security firm.

Competency Matrix





Consulting

- PCI QSA Validation Services (PCI-DSS)
- PCI ASV Scanning Services (PCI-DSS)
- PA QSA Validation Services (PA-DSS)
- PCI Assurance Services (SAQ)
- Risk Assessment (IS-RA)
- Privacy and Standards Compliance (ISO 27001, GLBA, HIPAA, DPA, COBITFISMA, BS 25999)
- Application Pen Test and Code Review
- Network VA and Pen Test
- Forensics



Training

- •OCTAVE (SEI-CMU) Security Risk Assessment Workshop
- Information Security Risk Assessment workshop (CSRA)
- •PCI DSS Implementation Workshop (CPISI)
- •ISO 27001 Implementation Workshop
- •Business Continuity Management Workshop
- Secure Coding in Dot-Net
- Awareness Sessions



Products

- •SMART-RA.COM
- MANAGEPCI.COM
- DDT (Data Discovery Tool)
- **•SISASMART IT-GRC**
- •SISASMART Audit Management Tool
- SISASMART Survey Management

Over 100 Workshops.....





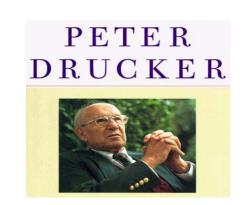


Definition

Risk assessment is the cornerstone of any information security program, and it is the fastest way to gain a complete understanding of an <u>organization's</u> security profile – its strengths and weaknesses, its vulnerabilities and exposures.

"IF YOU CAN'T MEASURE IT

...YOU CAN'T MANAGE IT!"



Need for IS-RA



- PCI DSS
- ISO 27001 (ISMS)
- HIPAA
- GLBA
- IT Act
- OECD
- FISMA
- FISAP
- •

Countries	Equivalent Standard	
Martalia Mew Zealand	AS/NZS ISO/IEC 27002:2006	
Brazil	ISO/IEC NBR 17799/2007 - 27002	
Chile	NCH2777 ISO/IEC 17799/2000	
Czech Republic	ČSN ISO/IEC 27002:2006	
Denmark	DS484:2005	
Estonia	EVS-ISO/IEC 17799:2003, 2005 version in translation	
Japan	JIS Q 27002	
Lithuania	LST ISO/IEC 27002:2009 (adopted ISO/IEC 27002:2005, ISO/IEC 17799:2005	
Netherlands	NEN-ISO/IEC 17799:2002 nl, 2005 version in translation	
Poland	PN-ISO/IEC 17799:2007, based on ISO/IEC 17799:2005	
Peru	NTP-ISO/IEC 17799:2007	
South Africa	SANS 17799:2005	
Spain	UNE 71501	
Sweden	SS 627799	
C• Turkey	TS ISO/IEC 27002	
United Kingdom	BS ISO/IEC 27002:2005	
Uruguay	UNIT/ISO 17799:2005	
Russia	ГОСТ/Р ИСО МЭК 17799-2005	
China	GB/T 22081-2008	



Risk Assessment in PCI 2.0-Requirement 12.1.2

 Requirement 12.1.2 emphasizes the need for a structured and formal risk assessment methodology.

"Requirement 12.1 Establish, publish, maintain, and disseminate a security policy that accomplishes the following:

Requirement 12.1.2 Includes an annual process that identifies threats, and vulnerabilities, and results in a formal risk assessment. (Examples of risk assessment methodologies include but are not limited to OCTAVE, ISO 27005 and NIST SP 800-30.)"

Challenges in Risk Assessment



Challenge	Consequence
Lack of a Structured, Organized and approved risk assessment methodology.	 Risk Assessment is conducted in a chaotic, haphazard and incorrect manner. Comprehensive coverage of assets,
	threats and controls is lost.
Lack of Automation.	Human involvement is increased.Scope of error rises.
Unwarranted complexity.	•More time is spent on understanding the risk assessment methodology than in implementing it.
	•Training spend increases in terms of time and money.
Inadequate reporting functionality.	Senior management is not happy.
Ineffective measurement metrics.	Risk Assessment becomes inaccurate or insufficient.

Meet Requirement 12.1.2 with SMART



Acknowledging the importance of risk assessment, SISA has developed SMART – Security Management and Risk Assessment Tool.

Features

SMART is adherent to OCTAVE, ISO 27005 and NIST SP 800-30.

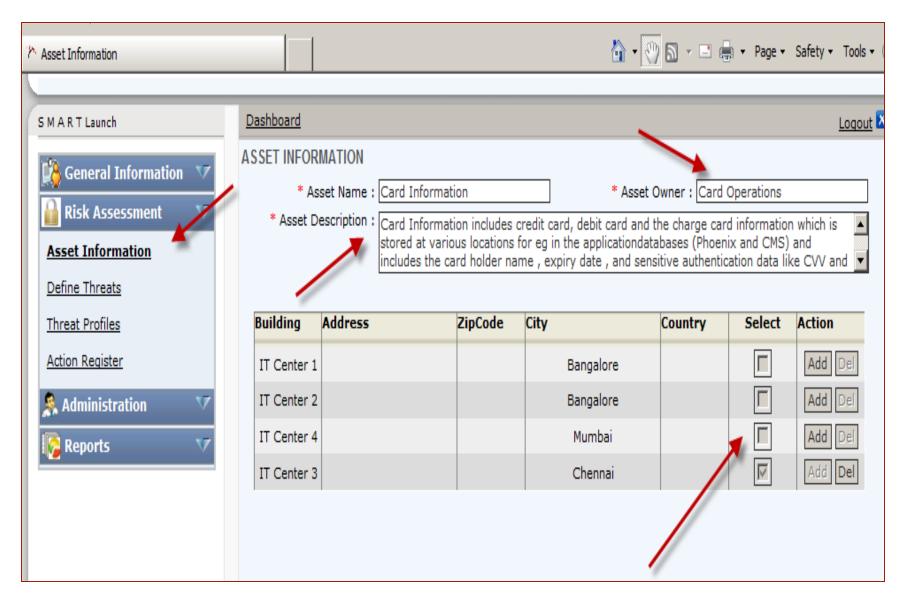
Multi Purpose Tool:SMART enables compliance with ISO 27001, PCI DSS, HIPAA, FISMA, FISAP and GLBA.

Extensible and Scalable:SMART can be deployed effectively for organizations of varied size and complexity and on multiple environments.

Fully Automated: SMART is the first product of its kind that provides automated implementation of Information Security compliance.

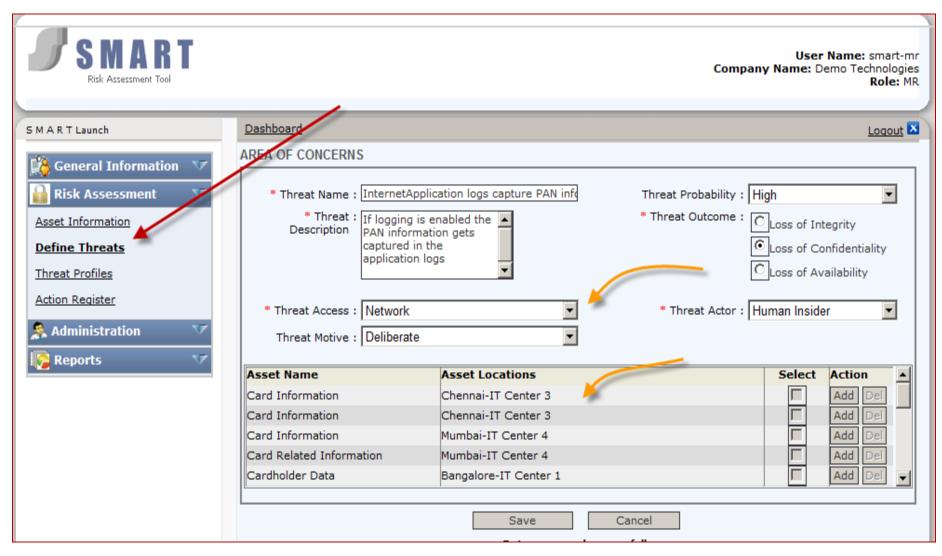
Assets





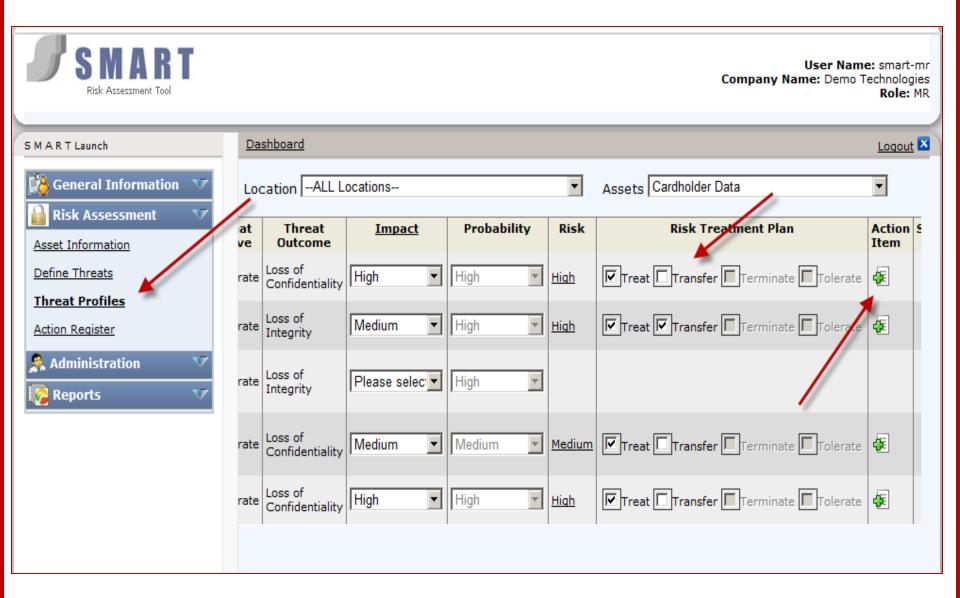
Threats





Threat Profile





Benefits



- SMART will reduce compliance time for your organization by 50%.
- SMART implements only the necessary controls for a threat.
 This significantly cuts your compliance costs.
- SMART is automated to the extent that documentation and human involvement are significantly reduced.
- SMART is designed with the vision of empowering zero background knowledge in implementing compliance.



Thank You

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