

OWASP Switzerland Chapter Meeting April 2009

OpenSecurityArchitecture.org

The OSA vision:

"OSA distills the know-how of the security architecture community and provides readily usable patterns for your application. OSA shall be a free framework that is developed and owned by the community."

OSA approach is to bring clarity through visualization

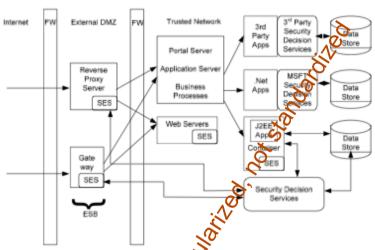


Figure 8: Gateway Based Migration of Infrastructure Managed Security

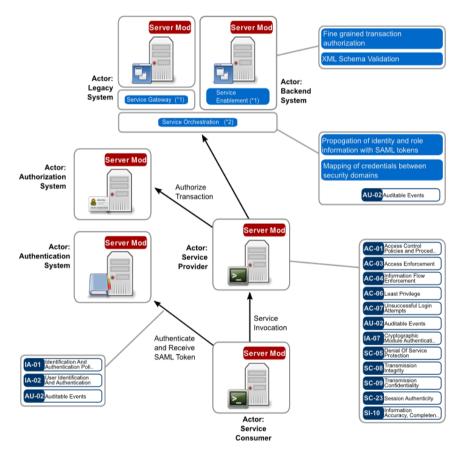
CP-5 CONTINGENCY PLAN UPDATE

<u>Control</u>: The organization reviews the ontingency plan for the information system [Assignment: organization-defined frequency, Cleast annually] and revises the plan to address system/organizational changes or problems encountered during plan implementation, execution, or testing.

Supplemental Guidance: Qualizational changes include changes in mission, functions, or business processes supported by the information system. The organization communicates changes to appropriate organizational elements responsible for related plans (e.g., Business Continuity Plan, Disaster Recovery Plan, Continuity of Operations Plan, Business Recovery Plan, Incident Response Plan Engregency Action Plan).

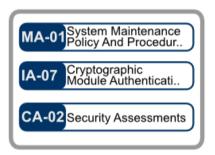


LOW CR-5	MOD CP-5	HIGH CP-5			



08.02.19_Pattern_005_SOA_Internal_Usage.svg
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How is OSA used?



1) Agree baseline

Controls are mapped against governance best practice, security standards, laws and regulations



2) Choose Patterns

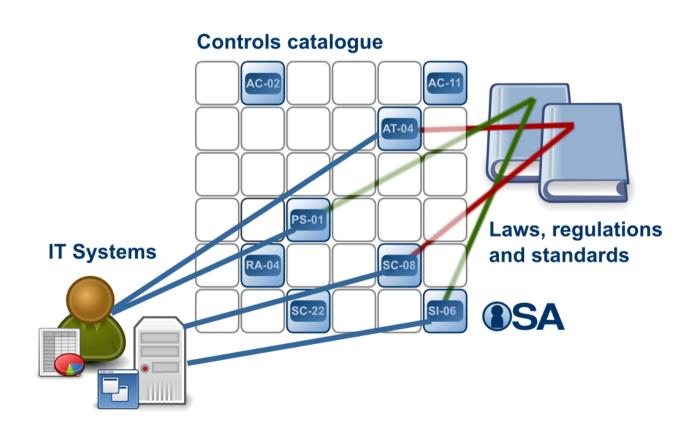
Patterns are generated for common security needs encountered in Industry verticals like Finance, Manufacturing and IT.



3) Optimise design

Architecture is optimised for the environment it will operate in.

A control catalog helps us understand business requirements



OSA serves corporate architects, auditors, and education



Security Architect:

- Wide coverage
- Hot topics
- No BS
- Vendor neutral



Auditors:

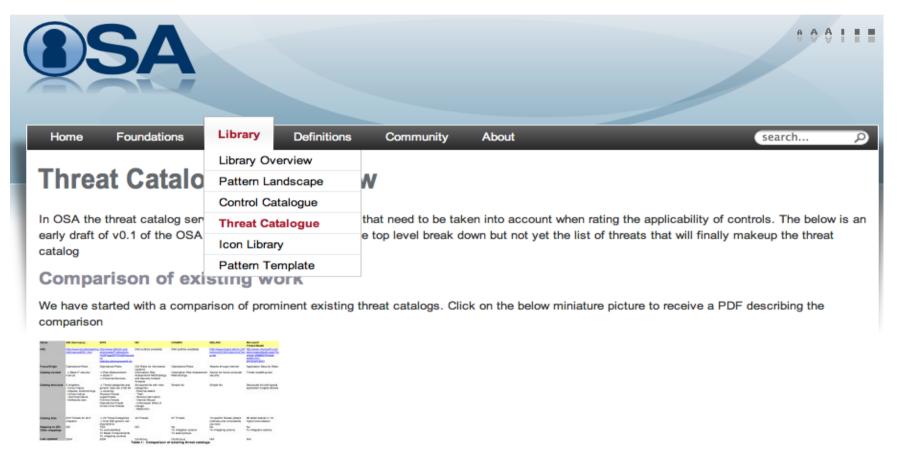
- Control Catalog
- ISO/Cobit Mapping
- Risk based approach



Teaching:

- Foundations
- Visual patterns

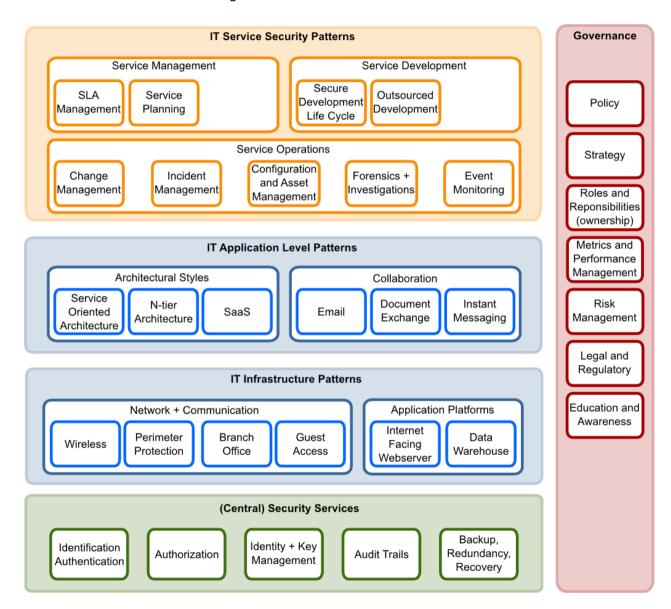
OSA provides several coherent libraries

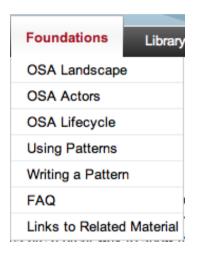


Threat Classification Method

For the classification of top-level threats, we propose to categorize the threat space into sub spaces according to a model of three orthogonal dimensions labeled Motivation, Localization and Agent. Figure 1 provides a visualization of the orthogonal threat dimensions.

OSA comes with taxonomy, landscape and foundational articles





Definitions Commu
IT Architecture
IT Risk
IT Security
IT Security Architecture
IT Security Pattern
IT Security Reqmnts
Glossary

10 Patterns Currently Available

- Cloud Computing
- Identity Management
- Privacy Mobile Device
- Public Web Server
- SOA Internal Service
- SOA Publication and Location
- Wireless- "private secure network" and "Using a public hotspot"

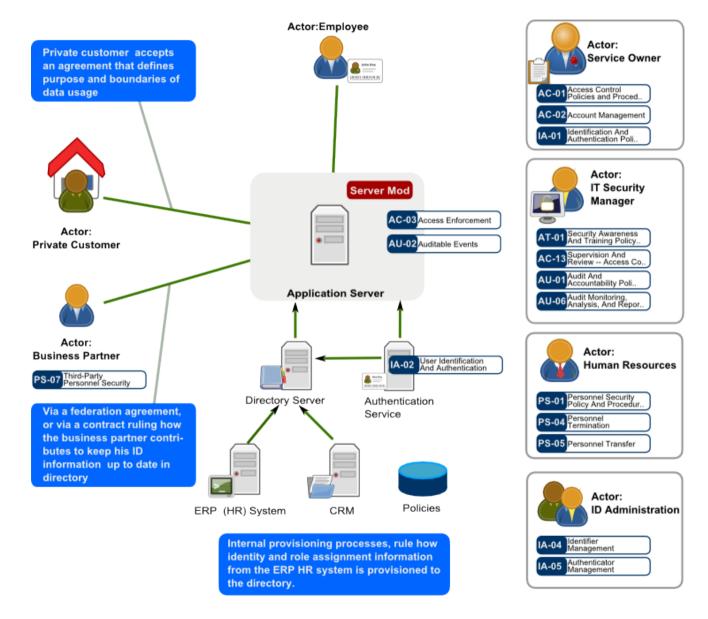
Modules:

- Client
- Server

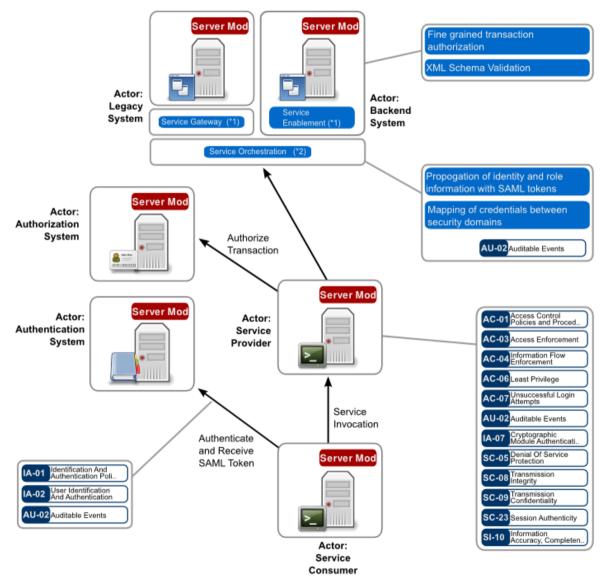
Upcoming:

- Secure SDLC
- Data Security

Pattern Example: Identity Mgmt



Pattern example: SOA security



Currently Under Development: SDLC

OSA SDLC: Core controls for secure solution development

Roles	Training	Requirement	Design	Implementation	Verification	Release	Response
Business application Owner		Strategic risk analysis Privacy policy	Role and permission design			Residual solution risk acceptance	Service Level Management
Service manager		SLA definition				Residual service risk acceptance	SLA monitoring
Project manager		Project risk analysis				Hand over risk sheets to service manager	
Analyst		Solution risk analysis	Abuse case definitions	Analysis of coverage of automated tests			
SW and Infrastructure Architect		Technology risk analysis	Capacity planning Disaster recovery Planning		Verify SLA fulfillment capabilities		
SW Engineering		Technology prototyping	-	Code review Static source analysis	Verify abuse cases		
QA Engineering	Process framwork	Define quality gates			Automated black box and white box testing	Verify claimed security attributes and sign-off release	
Security Specialist	Secure development Principles Security policy	Security requirements elicitation Attack surface identification Define trust boundaries	Security design review Threat modelling		Penetration testing	Response plans as part of operational security guide	Security Incident Management
Operations							Change Management (incl. Vulnerability Management) Continuos Monitoring

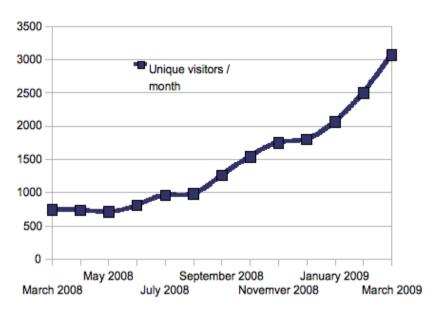
Definitions:

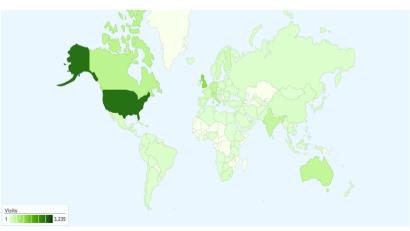
Solution risk Project risk Penetration testing

A risk posed by the deployed solution to the business that it serves or to other stake holders A risk that threatens the goal of the project (which is put in place to develop the solution)

sting A manual testing process that requires knowledge of potential vulnerabilities

A fast growing community effort





- 5-10 new patterns per year.
- More than 300 registered members
- More than 3000 unique visitors per month
- Most visitors from US and EU

Take home message:

- OSA is a consistent foundation
- OSA helps you to get up to speed quickly
- You can help make it better :-)