



## OWASP Slovenija – predstavitev - ISACA

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### OWASP

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OWASP Slovenija se zahvaljuje

podjetju **HERMES SoftLab,**



[www.hermes-softlab.com](http://www.hermes-softlab.com)

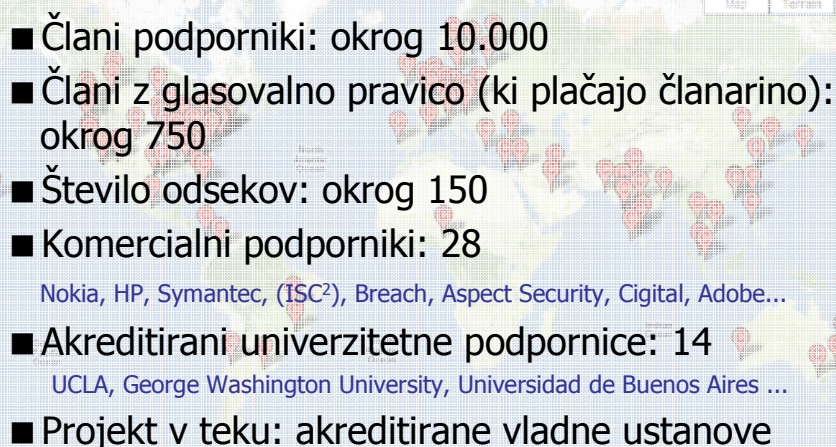
**ki gosti današnje srečanje.**

## Open Web Application Security Project (OWASP)

# OWASP: "The free and open application security community"

- Obstaja od leta 2000
- Neprofitno, prostovoljno, nekomercialno
- Aktivnosti: srečanja, izobraževalni projekti, konference, knjige, promocija znanja o aplikacijski varnosti
- Licence: Creative Commons 3.0, BSD

## Članstvo

- 
- Člani podporniki: okrog 10.000
  - Člani z glasovalno pravico (ki plačajo članarino): okrog 750
  - Število odsekov: okrog 150
  - Komercialni podporniki: 28  
[Nokia, HP, Symantec, \(ISC<sup>2</sup>\), Breach, Aspect Security, Cigital, Adobe...](#)
  - Akreditirani univerzitetne podpornice: 14  
[UCLA, George Washington University, Universidad de Buenos Aires ...](#)
  - Projekt v teku: akreditirane vladne ustanove

## OWASP Slovenija

- <http://www.owasp.org/index.php/Slovenia>
- 25.2.2010 ob 12:00: 102 člana
  
- Srečanja:
  - ▶ Maribor – 26. jan, mar/apr, jun (OTS), ...
  - ▶ Ljubljana – 25. feb, apr/maj, sep, ...
  
- LinkedIn Group: OWASP Slovenia
  
- Vabimo mojstre aplikacijske varnosti, da predavajo na OWASP srečanjih

## Nekateri pomembnejši OWASP projekti

- OWASP Top Ten 2010 rc1
  - ▶ Lestvica 10 najbolj kritičnih tveganj v spletnih aplikacijah
- OWASP Code Review Guide v. 1.1
  - ▶ Podrobni praktični priročnik za izvedbo varnostnega pregleda kode (tehnični in organizacijski vidik)
- OWASP Testing Guide v.3
  - ▶ Priročnik in dobre prakse za varnostno testiranje ("pen-testing")
- OWASP Development Guide

## Nekateri pomembnejši OWASP projekti – OWASP TOP 10

OWASP Top 10 – 2007 (Previous)	OWASP Top 10 – 2010 (New)
A2 – Injection Flaws	A1 – Injection
A1 – Cross Site Scripting (XSS)	A2 – Cross Site Scripting (XSS)
A7 – Broken Authentication and Session Management	A3 – Broken Authentication and Session Management
A4 – Insecure Direct Object Reference	A4 – Insecure Direct Object References
A5 – Cross Site Request Forgery (CSRF)	A5 – Cross Site Request Forgery (CSRF)
<was T10 2004 A10 – Insecure Configuration Management>	A6 – Security Misconfiguration (NEW)
A10 – Failure to Restrict URL Access	A7 – Failure to Restrict URL Access
<not in T10 2007>	A8 – Unvalidated Redirects and Forwards (NEW)
A8 – Insecure Cryptographic Storage	A9 – Insecure Cryptographic Storage
A9 – Insecure Communications	A10 – Insufficient Transport Layer Protection
A3 – Malicious File Execution	<dropped from T10 2010>
A6 – Information Leakage and Improper Error Handling	<dropped from T10 2010>

## Nekateri pomembnejši OWASP projekti – OWASP Code Review Guide

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Java OWASP Code Review Guide example
1. Check that the Java Cryptography Extension (JCE) is being used|
2. Verify no proprietary algorithms are being used
3. Check that SecureRandom (or similar) is used for PRNG
4. Verify key length is at least 128 bits

Bad Practice: Use of Insecure Cryptographic Algorithms

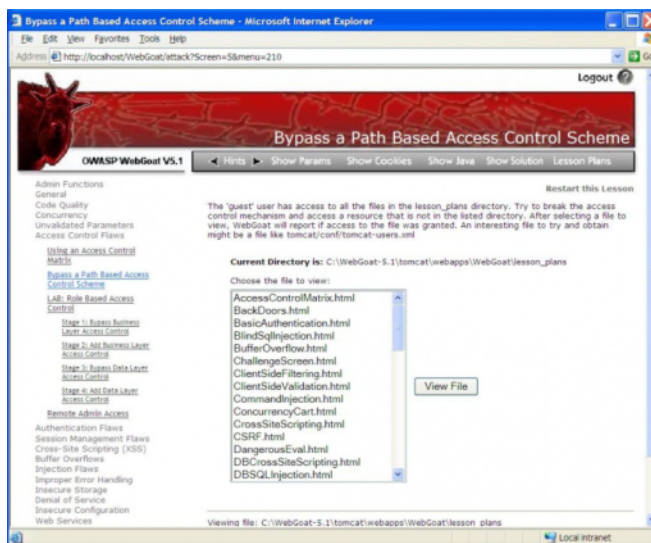
The following algorithms are cryptographically insecure: DES and SHA-0. Below outlines a cryptographic implementation of
DES (available per Using the Java Cryptographic Extensions):
package org.owasp.crypto;

import javax.crypto.KeyGenerator;
import javax.crypto.SecretKey;
    
```

## Nekateri pomembnejši OWASP projekti (2)

- WebGoat 5.2– namerno “nevarna” spletna aplikacija za učenje po lekcijah
- WebScarab – orodje za preizkušanje spletnih aplikacij in spletnih storitev
- ESAPI – Enterprise Security API – nabor programskih knjižnic z varnostnimi funkcijami (Java, .NET, ASP, PHP, ColdFusion/CFML, Python, JS)
- ASVS - Application Security Verification Standard
- OpenSAMM – model za aplikacijsko zrelost v organizacijah

## Nekateri pomembnejši OWASP projekti (2) - WebGoat

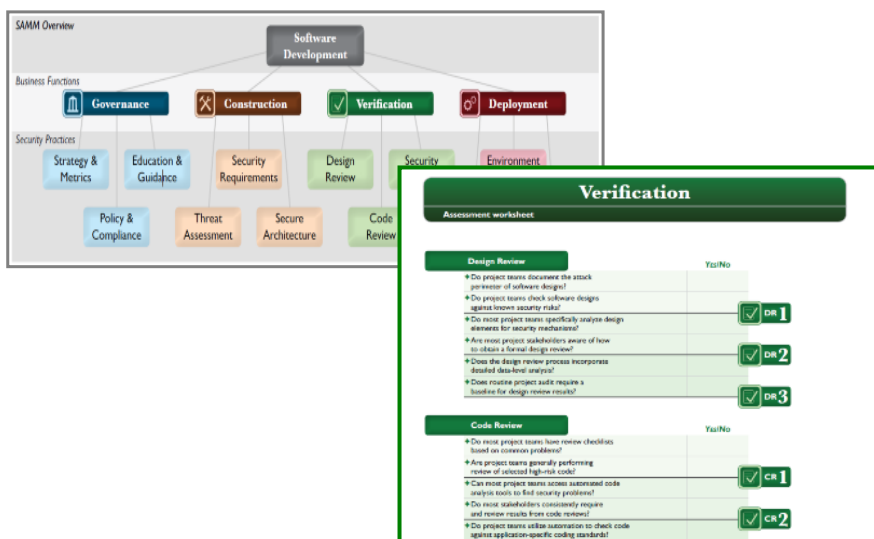


## Nekateri pomembnejši OWASP projekti (2) - ASVS

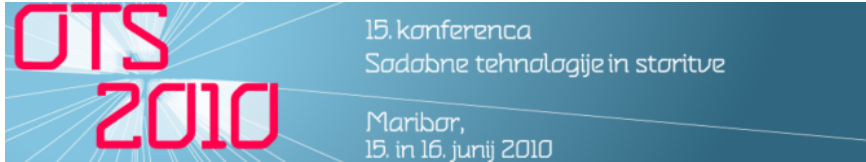
Table 1 - OWASP ASVS Security Architecture Requirements (VI)

Verification Requirement	Level 1A	Level 1B	Level 2A	Level 2B	Level 3	Level 4
V1.1 Verify that all application components (either individual or groups of source files, libraries, and/or executables) that are present in the application are identified.	✓	✓	✓	✓	✓	✓
V1.2 Verify that all components that are not part of the application but that the application relies on to operate are identified.			✓	✓	✓	✓
V1.3 Verify that a high-level architecture for the application has been defined. <sup>14</sup>			✓	✓	✓	✓
V1.4 Verify that all application components are defined in terms of the business functions and/or security functions they provide.					✓	✓
V1.5 Verify that all components that are not part of the application but that the application relies on to operate are defined in terms of the business functions and/or security functions they provide.					✓	✓
V1.6 Verify that threat modeling information has been provided.					✓	✓

## Nekateri pomembnejši OWASP projekti (2) - OpenSMM



## Sodelovanje z OTS 2010



- 16.6.2010 – OWASP sekcija na konferenci OTS v Mariboru (<http://cot.uni-mb.si/ots2010/>)
- Vabilo k sodelovanju s prispevkom
- 31. 3. 2010: Rok za prijavo prispevka – oddajo razširjenega povzetka
- 4-8 strani članka, predstavitev na konferenci
- Tema: aplikacijska varnost

## Nazaj na današnji vozni red ...

- Kratka predstavitev OWASP
- Tadej Vodopivec, HERMES SoftLab: **Kdo pije, kdo plača... za varnost spletnih aplikacij?**
- Luka Treiber, ACROS: **Izpoved "white hat" hekerja: Kako sem dobil tisto dragoceno datoteko z vašega računalnika**  
(demonstracija, ponovitev)