IC Security Group

http://icsecurity.di.uniroma1.it

Group Coordinator: Prof. Luigi V. Mancini

http://mastersecurity.uniroma1.it

Research Topics

- Critical infrastructure protection
- Homeland security
- Vulnerability assessment and exploit analysis
- Intrusion detection and prevention
- Secure Multicasting
- Ad hoc, wireless networks
- Protection from malicious code
- Network Mobility

- Web security
- Steganography and digital watermarking
- Public Key Infrastructures - X.509,
- SPKI/SDSI
- Access Control, Trust Management
- Secure electronic commerce, micro-payments
- Privacy & anonymity

Projects

- **ASP**: Application Security Project
- **REMUS**: REference Monitor for Unix Systems
- **SOCKMI**: SOcket MIgration System
- **Spada@web**: Web-based management and representation of spatial and geographic data
- **WEB MINDS**: Wide-scalE Broadband Middleware for Network Distributed Services
- **WHIPS**: Windows Host Intrusion Prevention System
- **Aficionados**: European winner project of the Ricoh & SUN Java programming contest 2006

Events

- **PRISE** 2006 - 2007

Objectives

- Methodology enhancement to implement Security in Software Development Life Cycle
- Project works on Software Security
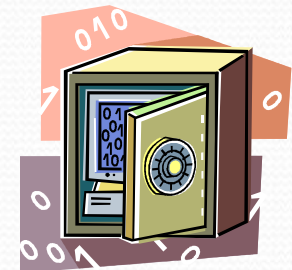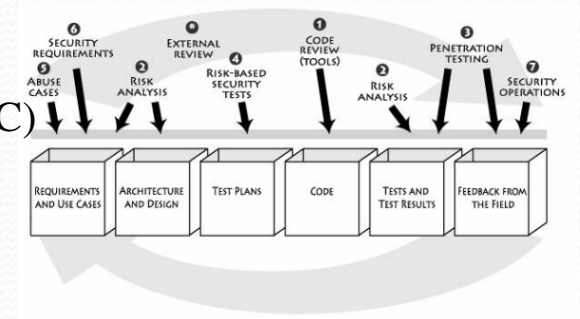- Meetings and conferences on Software Security

Coordinators

- **prof. Luigi V Mancini**, Dipartimento di Informatica, Universita' di Roma "La Sapienza", Italy (Full Professor and Director of "Master di Sicurezza Informatica")
- **dott. Roberto Battistoni**, Italian Government Institution, Italy (Master's Project Work activities coordinator and Software Security Specialist)
- **dott. Roberto D'Addario**, 3COM, Italy (Master's Project Work activities coordinator)
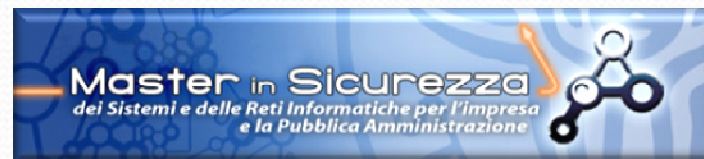
Projects

- Research on **Secure Software Development Life Cycle** (SSDLC)
    - Guide Lines for SSDLC
    - Best Practices for Requirements
    - Best Practices for Design
    - Best Practices for Coding

- **Web Site vulnerability assessment** of a very important Italian Company (gray box) with OWASP Test Methodology (but sorry for company name…we have an NDA!)

- **SQL Hurricane**: Java library for detection and prevention of SQL Injection attacks (it is based on SQL grammar checking and SQL statement syntax tree validator)

Golden Sponsor:

Collaborators: OWASP Italy Chapter

Membership: OWASP

Security Master

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