



Security framework is not in the code

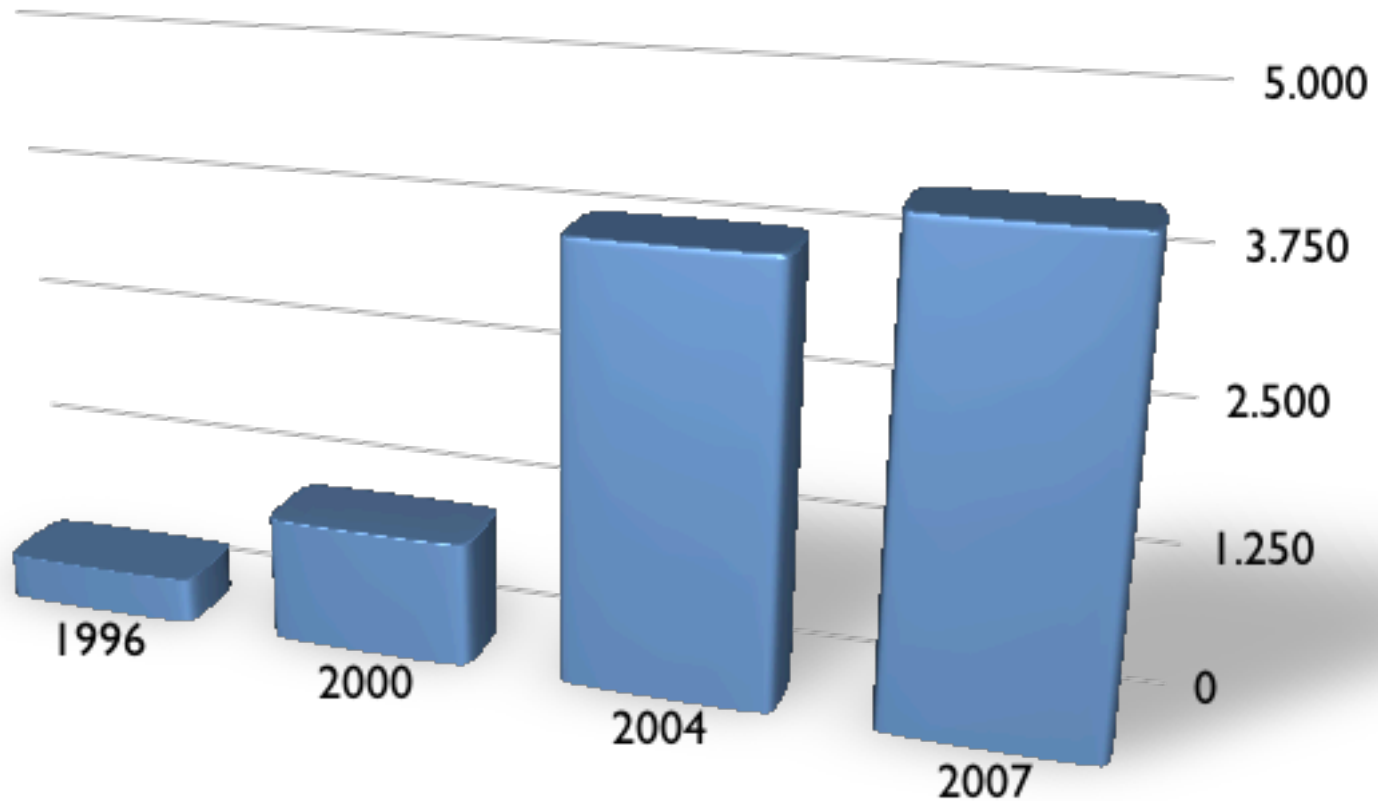
Sam Reghenzi

OWASP

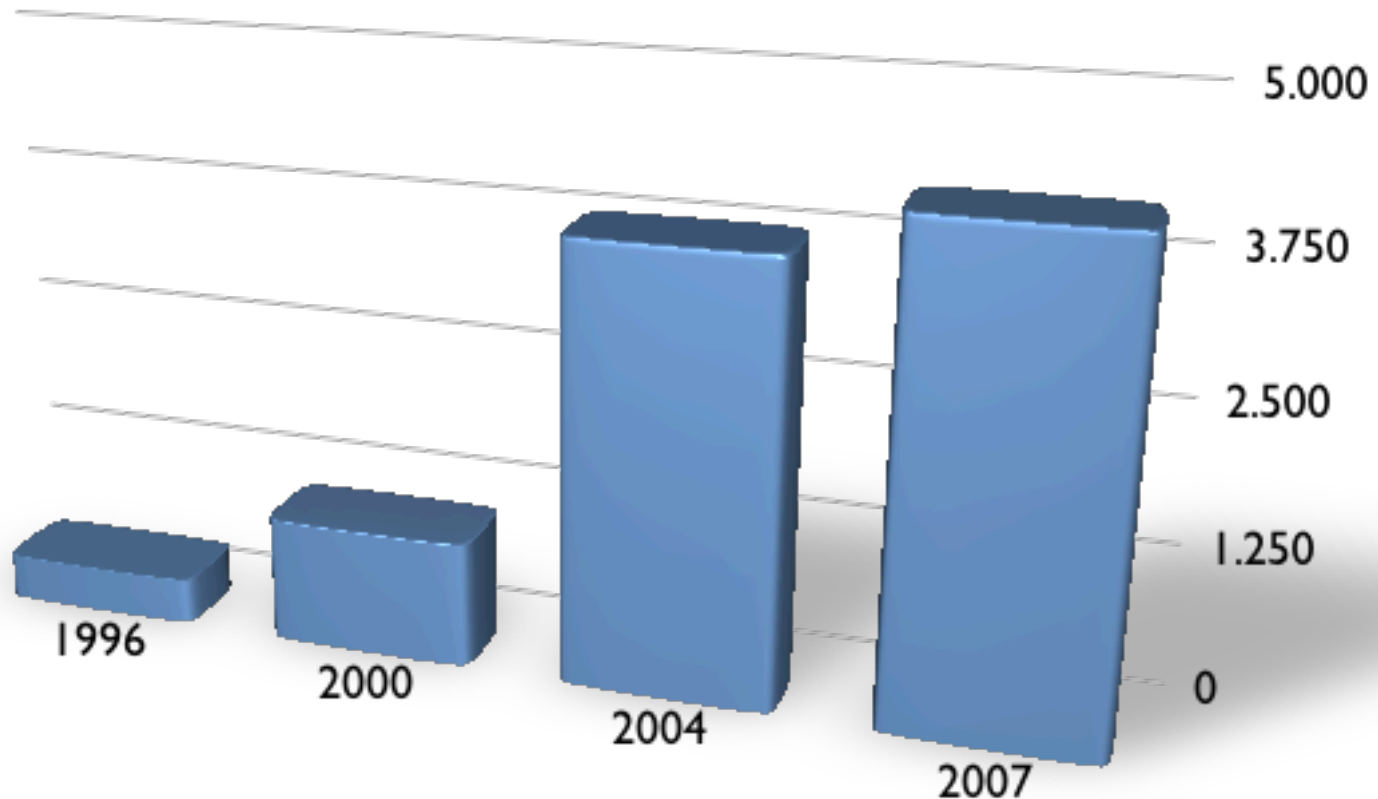
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Do we really need more security in our software?

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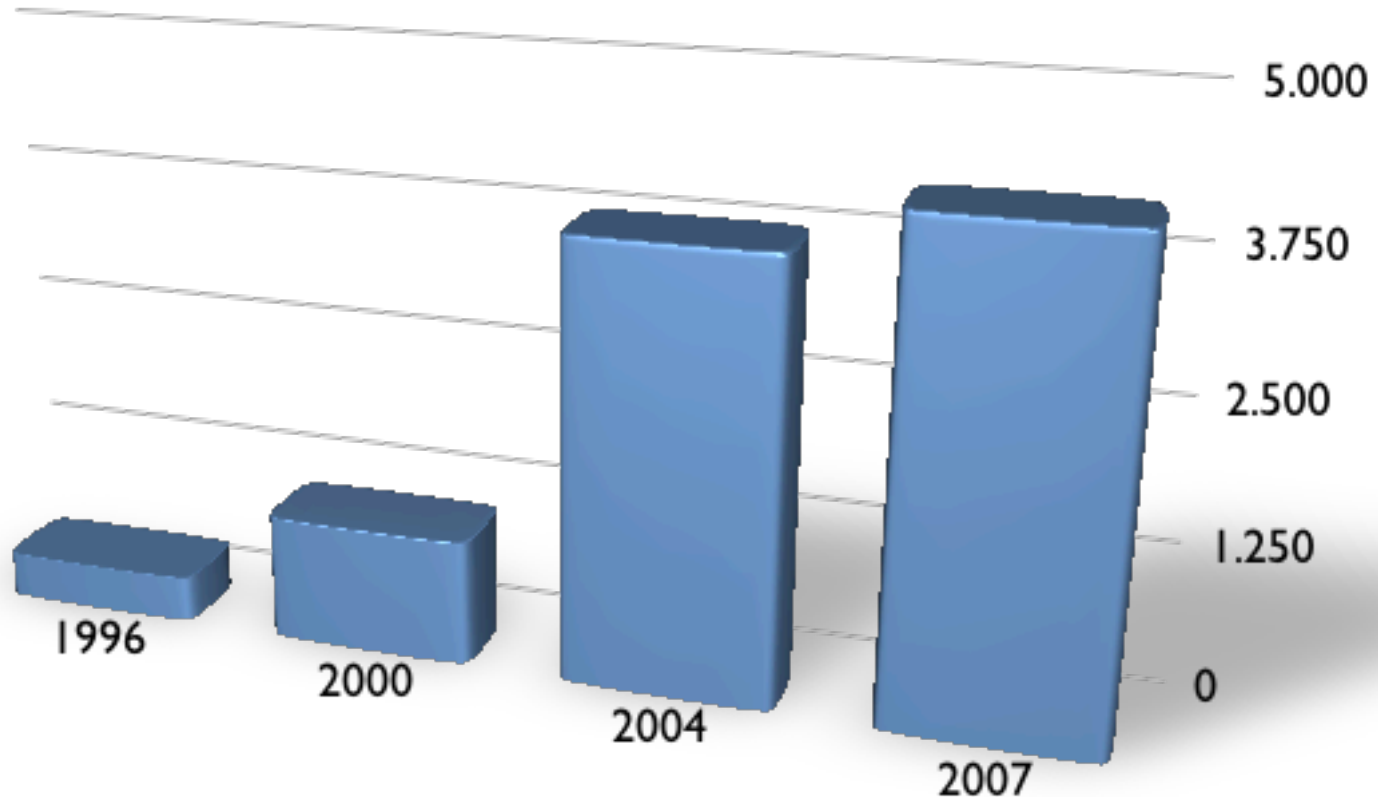


Do we really need more security in our software?



■ Number of security related vulnerabilities

Do we really need more security in our software?



■ Number of security related vulnerabilities

We need to build better software

What we mean with Security Framework

#1 It is not

- * Authentication and authorization

- * Encryption

- * Firewall software

It could be

- * An enterprise security approach

- * A risk management framework for security related threats

- * Defined steps in your (Secure) development life cycle



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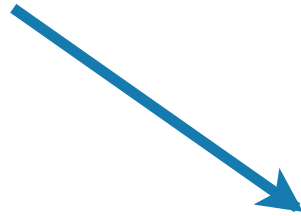
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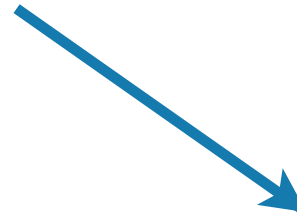
Application security is
inside the application not
around it

Traditions (And other bad habits)

Security is a network problem and it can be solved with hardware



No budget in development



Software not developed in a security aware life cycle



Establish security in your DL

Software engineering

- * Find best practice to fit your team or company
- * Test for abuse, not only for good use
- * Measure code, bug and progress

Social engineering

- * Make good friends
- * Be aware of your business compliancy
- * Wait... something bad will happen



The ROI Problem

Security in software development brings no direct revenue

#1 Reduce costs

#2 Bring evidence of risks

#3 Sell security as a value

[Static]Code analysis

- * Add security awareness in code reviews
- * Add security blue prints in automatic code analysis
- * Fix codebase and third party software

[Static]Code analysis

The poor man software security

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Security Risk management

Manage knowledge, identify risks,
rank them and fix them



Security Risk management

#1

- * Gather documentation
- * Gather information from management
- * Gather information from the team
- * Gather information from artifacts

#2

Organize everything

#3

Make the deal



Hot stages of SDLC

- * The architectural design
- * The development
- * The test
- * The enhancement

- * User stories
- * Test driven
- * Iterations

- * Code review
- * Abuse cases
- * Penetration testing
- * Security requirements
- * Risk analysis



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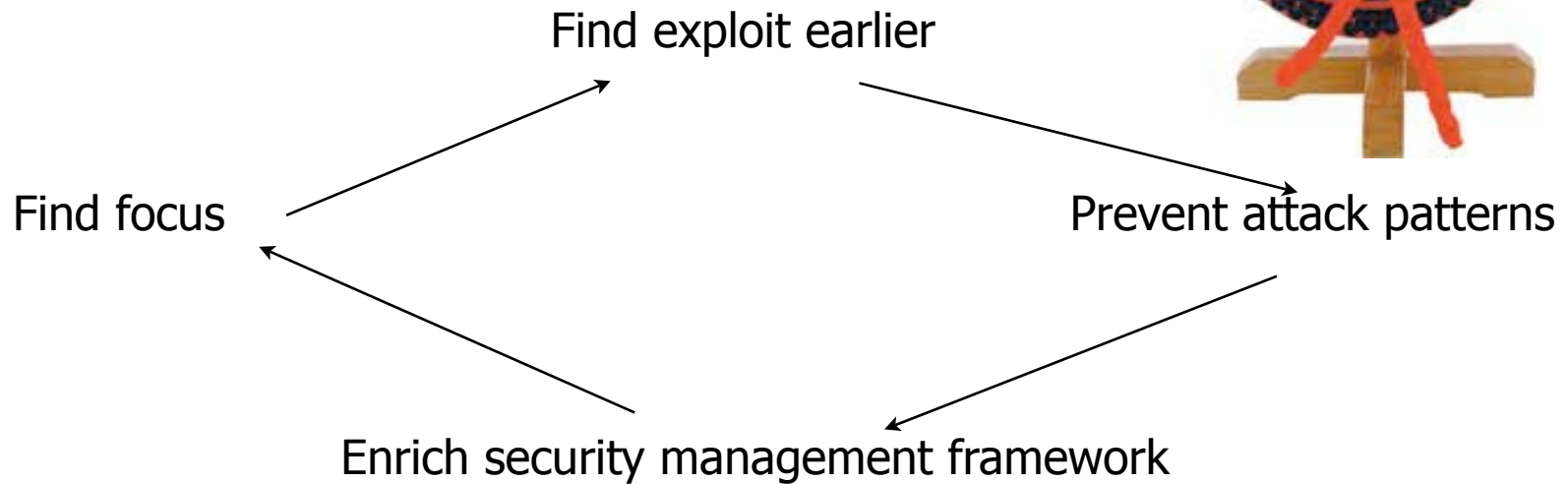
Touchpoints

- * Code review
- * Abuse cases
- * Penetration testing
- * Security requirements
- * Risk analysis



Historical knowledge

Know your enemies



Tips

- * Jump on the **High availability** train
- * Mitigate Web 2.0
- * Deliver something concrete
- * In Rome act like a Roman



Q&A

