



WASC/OWASP WAFEC

From industry to community project

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WAFEC

- Stands for “Web Application Firewall Evaluation Criteria”
- Project of WASC
 - ▶ Web Application Security Consortium
<http://www.webappsec.org/>
- Started in spring 2005
- As follow-up of the WAS-TC
 - ▶ Web Application Security Threat Classification
- Published January 2006
- Web Application Firewall Evaluation Criteria Response Matrix, Published May 2009
- More information at <http://www.wafec.org/>

WASC WAFEC vs. WASC/OWASP WAFEC

- WASC – industry driven project
 - ▶ Primary information from most vendors
 - ▶ Very organized and disciplined project management
- OWASP – community driven project
 - ▶ Reputation for excellence and objectivity
 - ▶ Easy to join and participate in OWASP project
- However:
most authors and contributors participate in both
- Why not merge?
 - ▶ Community is voluntary work – slower
 - ▶ Industry – often mainly commercial interest
- Community + industry = unbiased + widely accepted

WASC WAFEC to WASC/OWASP WAFEC

- **2006 WAFEC v 1.0**
- 2009 WAFEC Evaluation Response Matrix
- 2010 Start of Work on V 2.0
- 2011 Discussion about „merge“ with OWASP
- 2012 WAFEC WAFEC becomes **WASC/OWASP WAFEC** schedule to finish v 2.0
- **2013 WASC/OWASP WAFEC v 2.0 to be published**

Why WAFEC 2.0: 2005 - 2013

Why a new document?

- New HTTP technologies in use (i.e. Web2.0)
- New players in the market
- New WAF functionalities
- WAF functionalities overlap with other technologies
- Customers want to compare
 - ▶ <2009: most WAF vendors prohibited benchmarks (at least publishing the results)
 - ▶ >2010: benchmarks became more popular
- 2008: OWASP Best practices: Web Application Firewalls

WAFEC 2.0

Content and challenges

We planned to announce today

But we will not

The challenges

The challenges of a volunteering project

- § Combining multiple contributions – duplication, gaps and quality.
- § Volunteering goes just as far...

Evaluation criteria are HARD!

Let's focus on that.

Core Security Value

Protection Methods

- § Not just signatures:
- § Cookie signing
- § Challenge/response
- § IP Reputation
 - § Signatures also means different things to different people.
- § More than one way to do things.
- § Is one better than the other?
- § Many times just about naming.
- § Very vulnerable to marketing exploit.

Protection Effectiveness

- § How to define?
- § How to measure?
- § A standard test is easy to prepare for.
- § Just imagine:
- § Criteria: "Does your product protect from CSRF"?
- § Answer: YES!

Are all criteria equal?

Consider the following (generalized) requirements:

- Protect from SQL injection attacks

- Frequency of signatures update

- Support sending events to a SOC

- Support TCP based syslog

They differ in:

- Importance

- Role: Mandatory, supporting or environment specific

Setting weights is nearly impossible

WAF and WAFEC Boundaries

What is a must for a WAF?

Single Sign On?

How to take into account the value of related features?

SSL offloading

Load balancing?

None behavioral requirements

Performance

Hardware certification

Vendor information, support contracts

Price....

Solution - WAFEC 2 structure

