



**OWASP**  
The Open Web Application Security Project

---

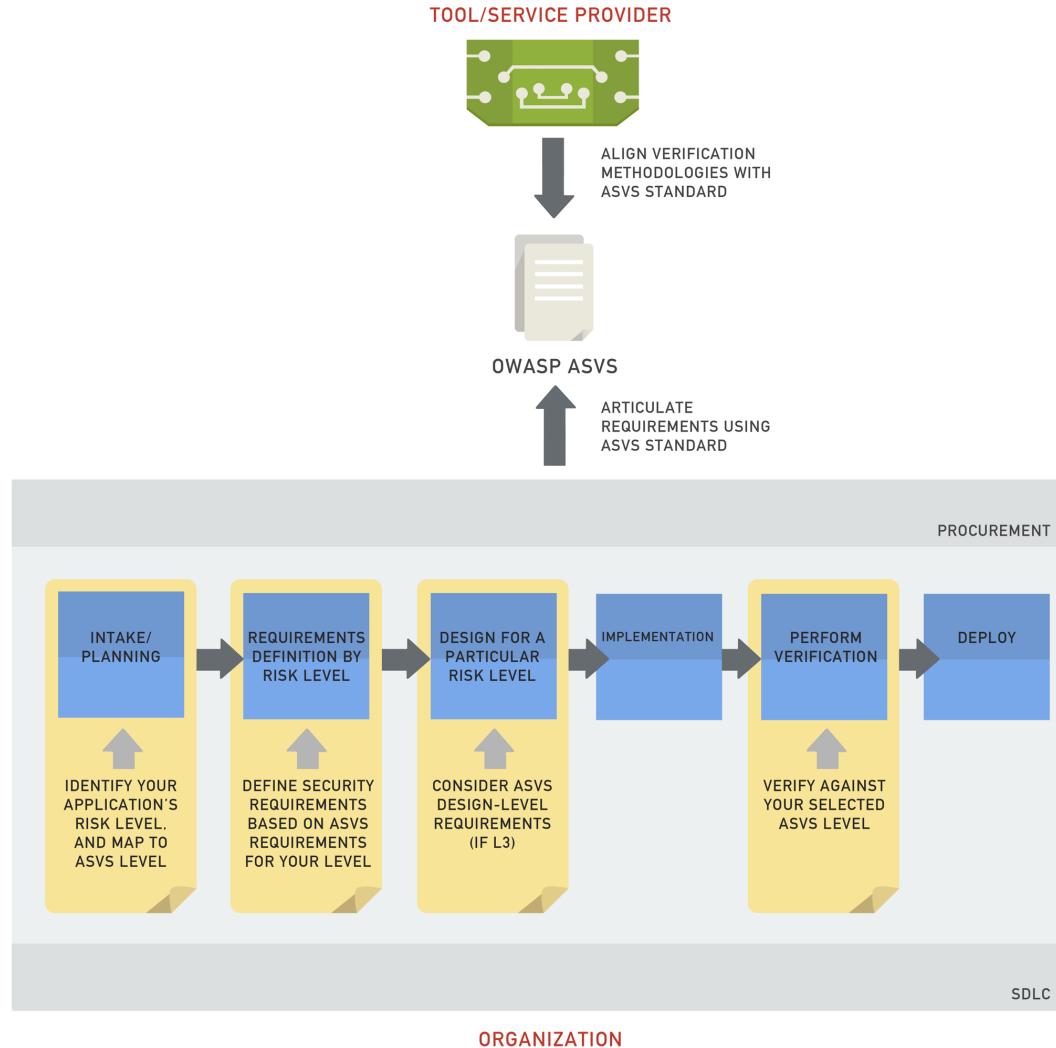
# OWASP Application Security Verification Standard 2013

# BACKGROUND

# What is ASVS?

“The primary aim of the OWASP Application Security Verification Standard (ASVS) is to normalize the range in the coverage and level of rigor available in the market when it comes to performing web application security verification.”

# Why you should care



# Introducing ASVS 2013 Beta

# At a glance

ASVS DEFINES DETAILED  
VERIFICATION REQUIREMENTS  
FOR LEVELS 1 AND ABOVE;  
WHEREAS LEVEL 0 IS MEANT TO  
BE FLEXIBLE AND IS CUSTOMIZED  
BY EACH ORGANIZATION.



# Level 0: Cursory

Level 0 (or Cursory) is an optional certification, indicating that the application has passed some type of verification.



# Level 1: Opportunistic

An application achieves Level 1 (or Opportunistic) certification if it adequately defends against application security vulnerabilities that are easy to discover.



# Level 2: Standard

An application achieves Level 2 (or Standard) verification if it also adequately defends against prevalent application security vulnerabilities whose existence poses moderate-to-serious risk.



# Level 3: Advanced

An application achieves Level 3 (or Advanced) certification if it also adequately defends against all advanced application security vulnerabilities, and also demonstrates principles of good security design.



# Scope of verification

The scope of the verification is separate from the requirements for achieving a level.

e.g. A  certified

# Detailed verification requirements

	AUTHENTICATION VERIFICATION REQUIREMENT	LEVELS		
		1	2	3
V1.1	Verify all pages and resources require authentication except those specifically intended to be public (Principle of complete mediation).	✓	✓	✓
V1.2	Verify all password fields do not echo the user's password when it is entered, and that password fields (or the forms that contain them) have autocomplete disabled.	✓	✓	✓

# Detailed verification requirements

- V1. Authentication
- V2. Session Management
- V3. Access Control
- V4. Input Validation
- V5. Cryptography (at Rest)
- V6. Error Handling and Logging
- V7. Data Protection
- V8. Communication Security
- V9. HTTP Security
- V10. Malicious Controls
- V11. Business Logic

# What's Next

# Get it first!



OWASP ASVS 2013 (Beta)

[http://  
sourceforge.net/projects/owasp/files/ASVS/OWASP%20ASVS%202013%20Beta/](http://sourceforge.net/projects/owasp/files/ASVS/OWASP%20ASVS%202013%20Beta/)

# Future direction

Map to other standards

Remove detailed requirements?

Makes ASVS more lightweight

Possibly two views: consumer and provider

# Shoutout to...

Daniel Cuthbert, Andrew van der Stock, Krishna Raja, Evan Gaustad,  
Archangel Cuisin, Etienne Stalmans

Authors and contributors of ASVS 2009

# Thank you!

Any questions?

Email us:

[Sahba.kazerooni@owasp.org](mailto:Sahba.kazerooni@owasp.org)

[Daniel.cuthbert@owasp.org](mailto:Daniel.cuthbert@owasp.org)

Join the conversation:

[owasp-application-security-verification-standard@lists.owasp.org](mailto:owasp-application-security-verification-standard@lists.owasp.org)