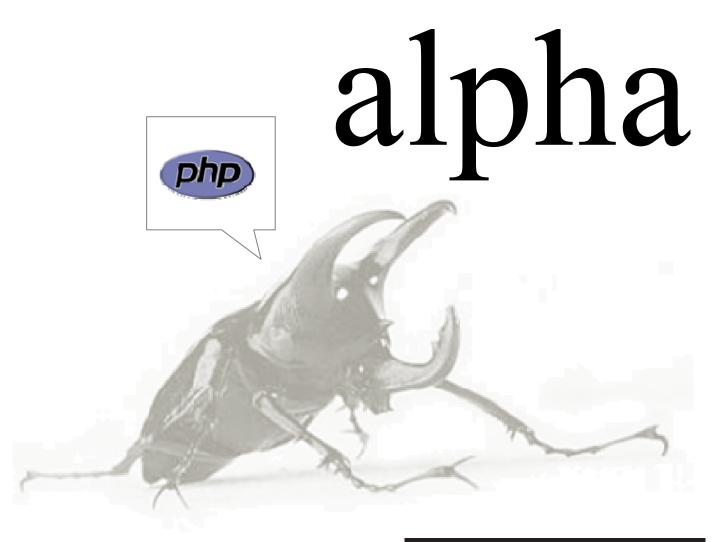
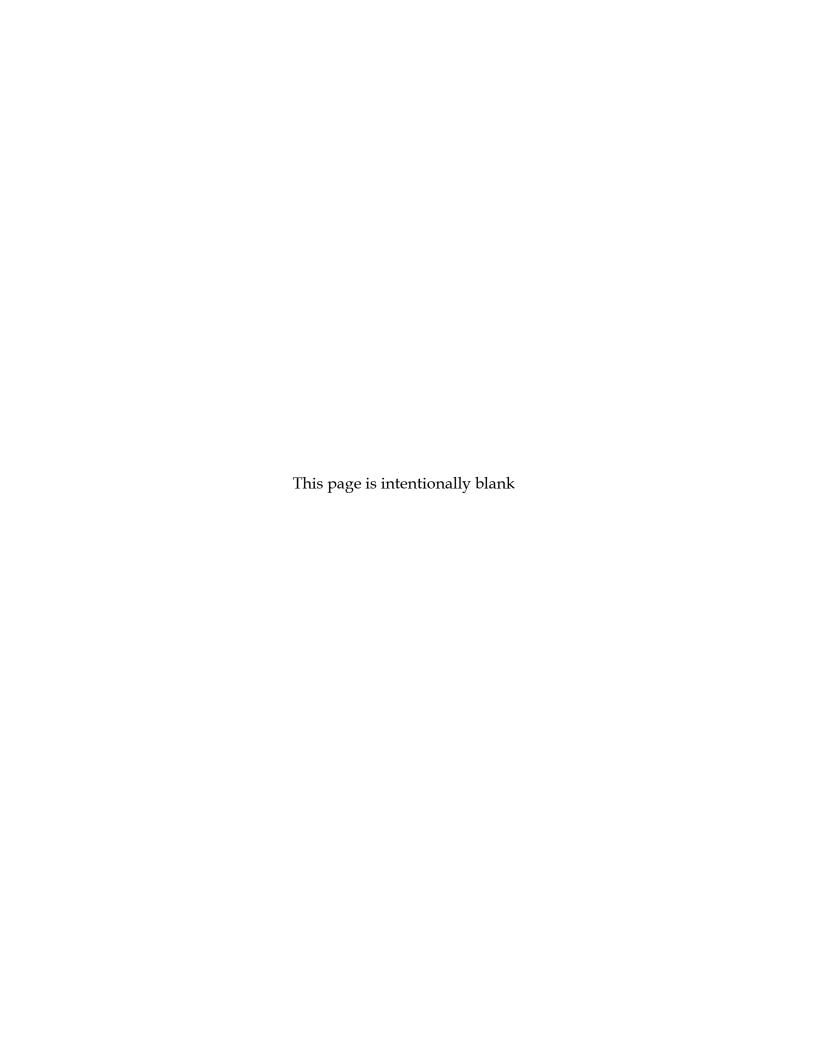


# **Installation Guide**

# **OWASP ESAPI for PHP 1.0a**





#### Foreword

This document provides instructions for installing version 1.0a of the PHP language version of the OWASP Enterprise Security API (ESAPI). OWASP ESAPI toolkits help software developers guard against security-related design and implementation flaws. Just as web applications and web services can be Public Key Infrastructure (PKI) enabled (PK-enabled) to perform for example certificate-based authentication, applications and services can be OWASP ESAPIenabled (ES-enabled) to enable applications and services to protect themselves from attackers.

#### We'd Like to Hear from You

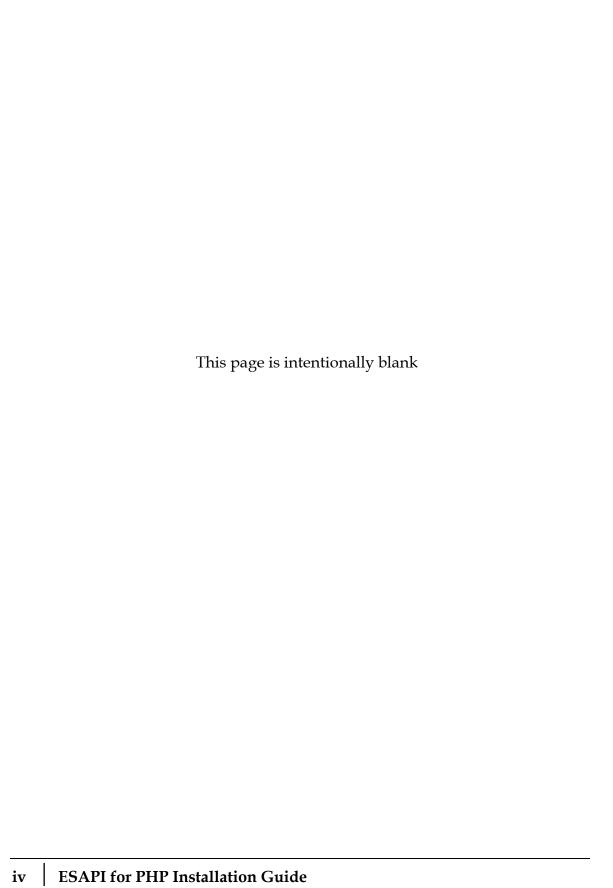
Further development of ESAPI occurs through mailing list discussions and occasional workshops, and suggestions for improvement are welcome. Please address comments and questions concerning the API and this document to the ESAPI mail list, owasp-esapi@lists.owasp.org

#### **Copyright and License**

Copyright © 2009 The OWASP Foundation.

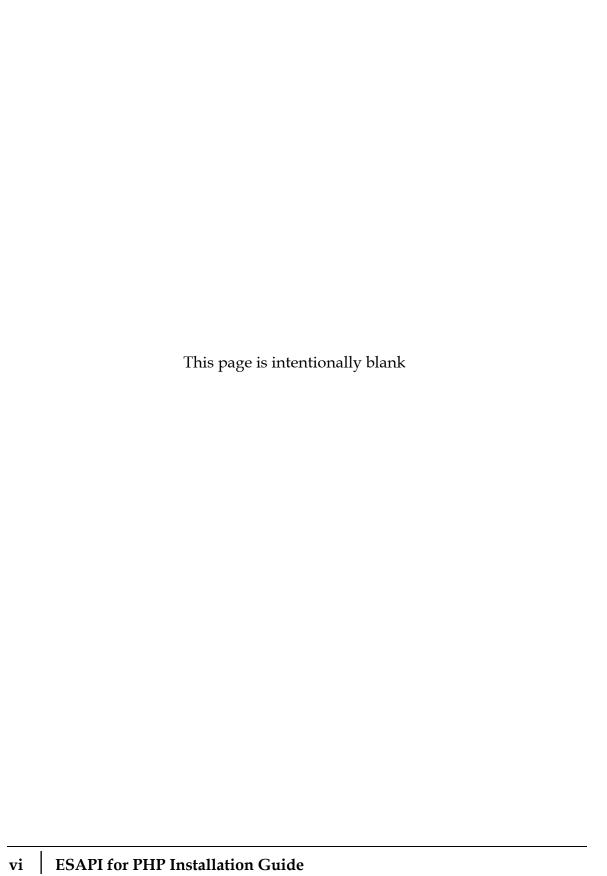


This document is released under the Creative Commons Attribution ShareAlike 3.0 license. For any reuse or distribution, you must make clear to others the license terms of this work.



### **Table of Contents**

1	ABOU	UT ESAPI FOR PHP	1
2	PREREQUISITES		3
3	INSTALLATION		5
		Distribution Directory Structure	
	3.2 B	Build and Run the Samples	5
4	UNIN	NSTALLATION INSTRUCTIONS	7
5	WHE	RE TO GO FROM HERE	9

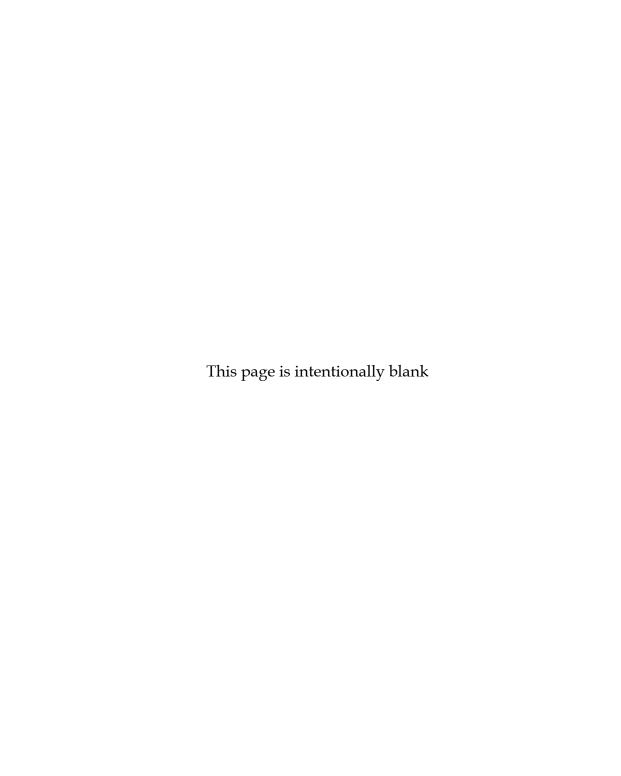


### 1 About ESAPI for PHP

OWASP ESAPI toolkits help software developers guard against security-related design and implementation flaws. Just as web applications and web services can be Public Key Infrastructure (PKI) enabled (PK-enabled) to perform for example certificate-based authentication, applications and services can be OWASP ESAPI-enabled (ES-enabled) to enable applications and services to protect themselves from attackers.

The ESAPI for PHP distribution media contains the following:

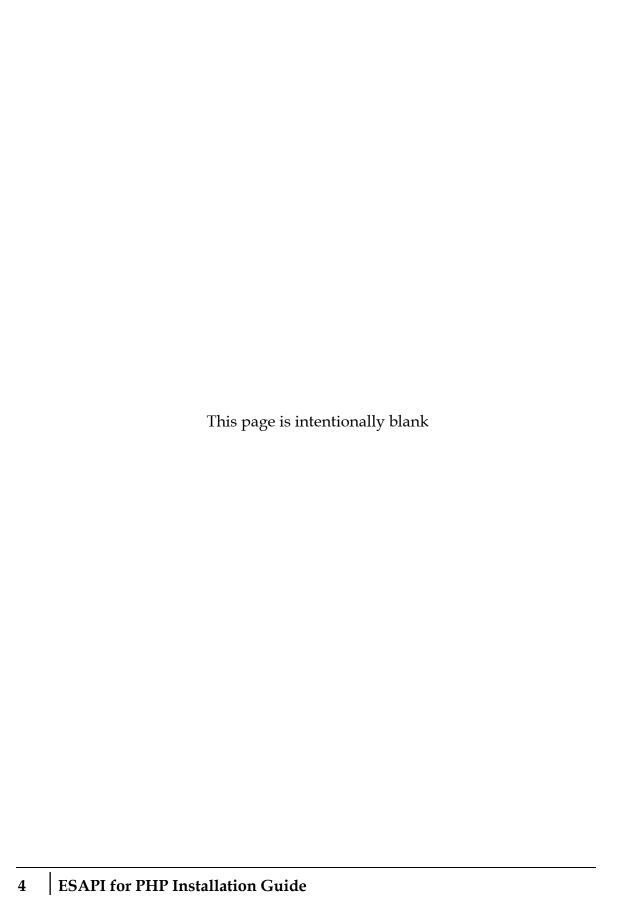
- The PHP (.php) and XML(.xml) files comprising the ESAPI FOR PHP toolkit.
- Sample code.
- Product documentation consisting of:
  - This document, the OWASP ESAPI for PHP Installation Guide, in Portable Document Format (PDF), with instructions on how to install and build ESAPI FOR PHP.
  - <... to do... e.g. ... This document, the OWASP ESAPI for PHP
     Release Notes, in Portable Document Format (PDF), with the latest
    information on ESAPI FOR PHP. >
  - o <... to do... need interface docs...>
  - o <... to do... need programming manual...>



## 2 Prerequisites

Before you start the installation, ensure that:

- The system you are installing on has 100 MB of free disk space.
- You have read these installation instructions.
- You have installed PHP 5.2 or above, and have set (for example) the Windows PATH environment variable appropriately.
- You have installed the mbstring extension and enabled it using --enablembstring.
- One or more of the following is installed:
  - o Eclipse 3.5 or newer, with PDT 2.1 or newer
  - o NetBeans 6.7 or newer



### 3 Installation

## 3.1 Distribution Directory Structure

The following describes the ESAPI for PHP distribution structure.

Directory		Content
<root>/</root>		
	0_install.pdf	OWASP ESAPI for PHP Installation Guide
PHP-ESAPI_1.0	o_ReleaseNotes.pdf	OWASP ESAPI for PHP Release Notes ESAPI documentation
lib/		
	apache-log4php/	ESAPI Pre-Installed Dependency
	htmlpurifier/	ESAPI Pre-Installed Dependency
	simpletest/	ESAPI Pre-Installed Dependency
src/		1
	*.php	ESAPI Core Components
	adapters/	ESAPI Adapters
	codecs/	ESAPI Core Components
	errors/	ESAPI Core Components
	filters/	ESAPI Core Components
	reference/	ESAPI Core Components
	validation/	ESAPI Core Components
sample/		ESAPI sample source code

#### To install ESAPI for PHP:

- 1. Copy the ESAPI for PHP distribution directory structure into a suitable location on the target machine.
- 2. Copy the ESAPI for PHP configuration file (ESAPI.xml) from the /test/testresources directory to a suitable location outside of the document root on the target machine.

## 3.2 Build and Run the Samples

This release of ESAPI for PHP has samples to demonstrate the security controls of a sample ESAPI reference implementation.

- There is a main test script in the AllTests.php file in the /test directory.
- There is sample code in the form of ESAPI reference implementation tests in the /test/reference directory.
- There is a sample ESAPI for PHP configuration file and ESAPI reference implementation test data in the /test/testresources directory.

The simplest way to build and run the samples for ESAPI for PHP is to create an Integrated Development Environment (IDE) project from the source files.

#### To create a new Eclipse project from the source files:

- 1. Open the Eclipse IDE.
- 2. Create a new PHP project:
  - a. From the File menu, select "New".
  - b. From the New submenu, select "PHP Project".
  - c. Specify a suitable project name in the "Project name" field.
  - d. Select the "Create project from existing source" radio button, and specify the location on the target machine where ESAPI for PHP was copied.
- 3. Click on the "Finish" button.

#### To build the sample code and to run the samples using Eclipse:

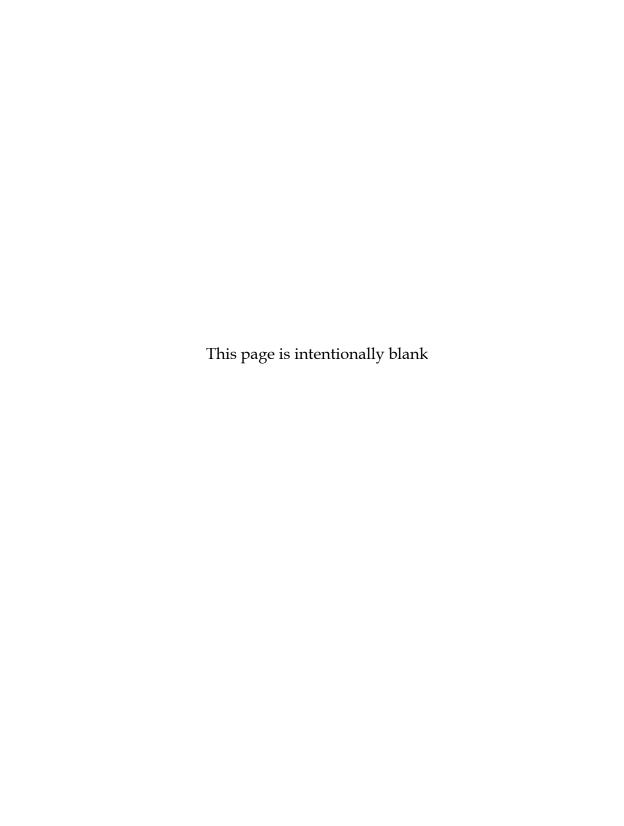
- 1. Navigate to the /test/AllTests.php file using the Eclipse IDE "PHP Explore" tab.
- 2. Right-click on the AllTests.php file.
- 3. From the pop-up menu, select "Run As".
- 4. From the pop-up submenu, select "PHP Script".

The sample code output can then be examined from the Eclipse IDE "Browser Output" tab.

<...to do... add equivalent NetBeans instructions...>

## 4 Uninstallation Instructions

To uninstall ESAPI for PHP on all platforms, remove all files and directories created during the installation process.



### 5 Where to Go From Here

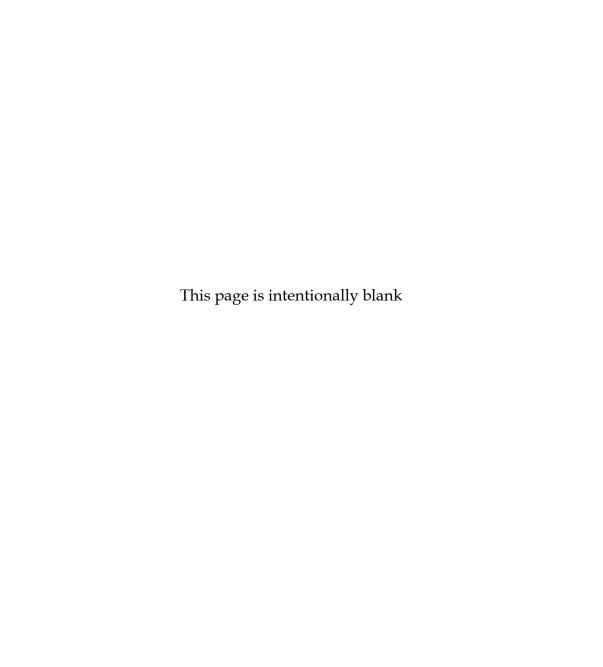
OWASP is the premier site for Web application security. The OWASP site hosts many projects, forums, blogs, presentations, tools, and papers. Additionally, OWASP hosts two major Web application security conferences per year, and has over 80 local chapters. The OWASP PHP project page can be found here <a href="http://www.owasp.org/index.php/ESAPI">http://www.owasp.org/index.php/ESAPI</a>

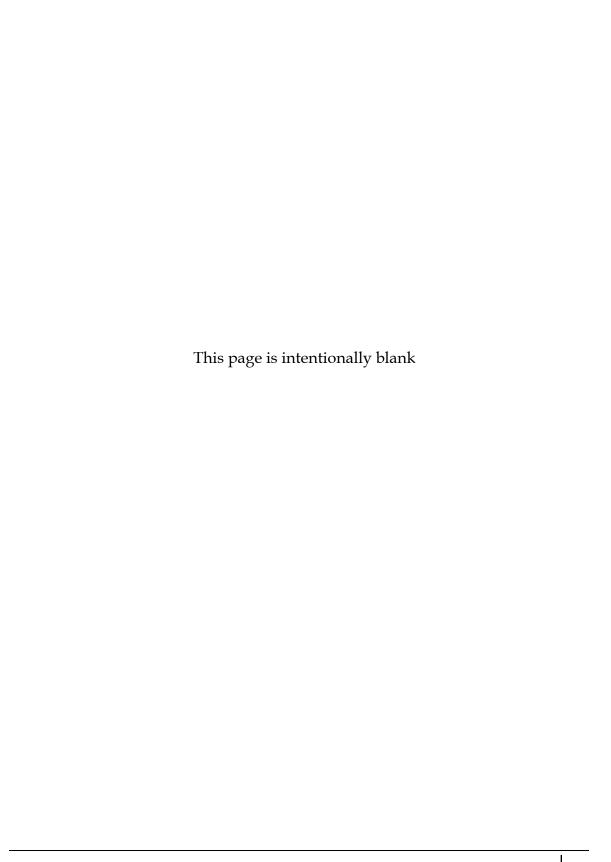
The following OWASP projects are most likely to be useful to users/adopters of ESAPI:

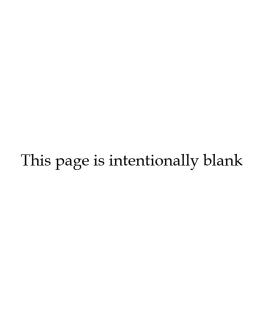
- OWASP Application Security Verification Standard (ASVS) Project -<a href="http://www.owasp.org/index.php/ASVS">http://www.owasp.org/index.php/ASVS</a>
- OWASP Top Ten Project <a href="http://www.owasp.org/index.php/Top\_10">http://www.owasp.org/index.php/Top\_10</a>
- OWASP Code Review Guide -<a href="http://www.owasp.org/index.php/Category:OWASP\_Code\_Review\_Project">http://www.owasp.org/index.php/Category:OWASP\_Code\_Review\_Project</a>
- OWASP Testing Guide -http://www.owasp.org/index.php/Testing\_Guide
- OWASP Legal Project -http://www.owasp.org/index.php/Category:OWASP\_Legal\_Project

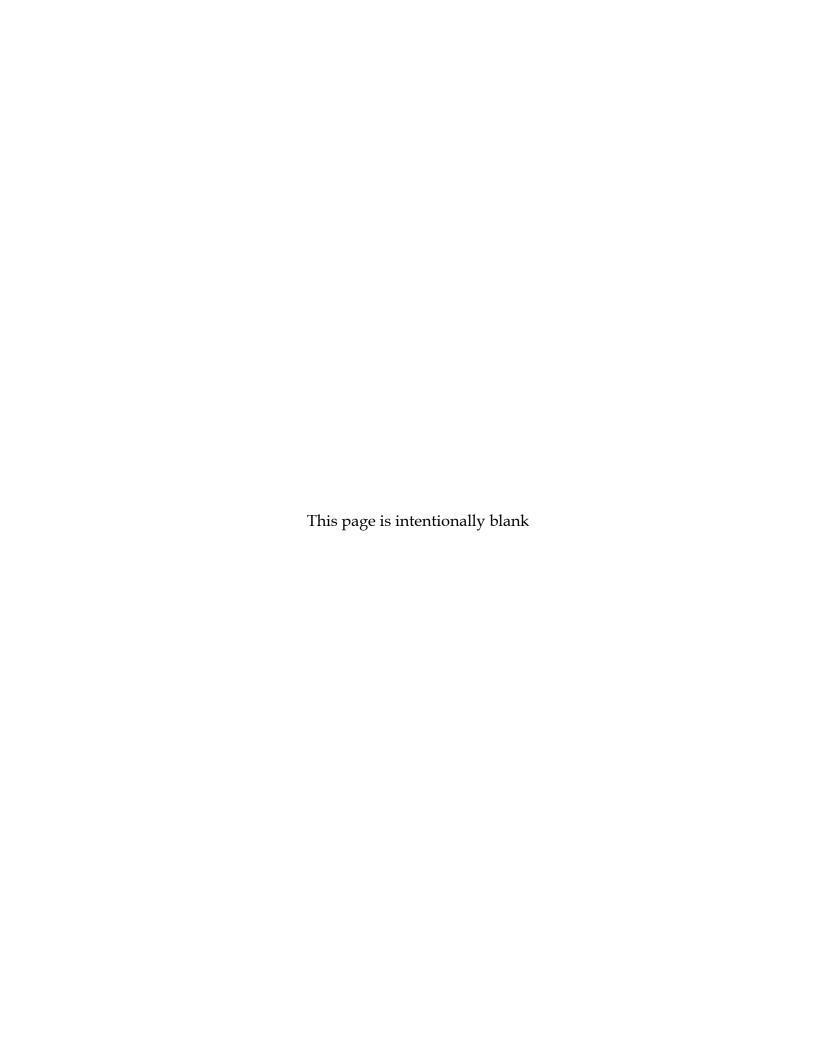
Similarly, the following Web sites are most likely to be useful to users/adopters of ESAPI:

- OWASP http://www.owasp.org
- MITRE Common Weakness Enumeration Vulnerability Trends, <a href="http://cwe.mitre.org/documents/vuln-trends.html">http://cwe.mitre.org/documents/vuln-trends.html</a>
- PCI Security Standards Council publishers of the PCI standards, relevant to all organizations processing or holding credit card data, <a href="https://www.pcisecuritystandards.org">https://www.pcisecuritystandards.org</a>
- PCI Data Security Standard (DSS) v1.1 https://www.pcisecuritystandards.org/pdfs/pci\_dss\_v1-1.pdf









## THE ICONS BELOW REPRESENT WHAT OTHER VERSIONS ARE AVAILABLE IN PRINT FOR THIS BOOK TITLE.

ALPHA: "Alpha Quality" book content is a working draft. Content is very rough and in development until the next level of publishing.

BETA: "Beta Quality" book content is the next highest level.

Content is still in development until the next publishing.

**RELEASE:** "Release Quality" book content is the highest level of quality in a book title's lifecycle, and is a final product.







ALPHA

BETA

RELEASE

#### YOU ARE FREE:



to Share = to copy, distribute and transmit the work



to Remix - to adapt the work

#### UNDER THE FOLLOWING CONDITIONS:



Attribution. You must attribute the work in the manner specified by the author or licensor (but not in any way that suggests that they endorse you or your use of the work).



Share Alike, If you after transform, or build upon this work, you may distribute the resulting work only under the same, similar or a compatible license.



The Open Web Application Security Project (OWASP) is a worldwide free and open community focused on improving the security of application software. Our mission is to make application security "visible," so that people and organizations can make informed decisions about application security risks. Everyone is free to participate in OWASP and all of our materials are available under a free and open software license. The OWASP Foundation is a 501c3 not-for-profit charitable organization that ensures the ongoing availability and support for our work.