OWASP
The Open Web Application Security Project

OWASP ESAPI for PHP 1.0a1

Installation Guide

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OWASP ESAPI for PHP Installation Guide

This document provides instructions for installing version 1.0a1 of the PHP language version of the OWASP Enterprise Security API (ESAPI) core module. ESAPI security control interfaces and reference implementations are collectively called the *ESAPI core module*. Encapsulating security control implementations are called *ESAPI adapters*. OWASP ESAPI Toolkits are designed to ensure that strong simple security controls are available to every developer in every environment.

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

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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.
    - The *OWASP ESAPI for PHP Release Notes*, in PDF, with the latest information on ESAPI for PHP.
    - The *OWASP ESAPI Design Patterns*, in PDF, which explores common ESAPI design patterns.

Prerequisites

Before you start the installation, ensure that:

- The system you are installing on has 20 MB of free disk space.
- You have read these installation instructions.
- You have installed PHP 5.2 or above, and have set environment variables appropriately.
- You have installed the `mbstring` extension and enabled it using `--enable-mbstring`.

Installation

Distribution Directory Structure

The following describes the ESAPI for PHP distribution structure.

Directory	Content
`<root>/`	
`ESAPI.xml`	ESAPI configuration file
`license.txt`	ESAPI license file
`readme.txt`	ESAPI readme file
`doc/`	ESAPI documentation
`lib/`	Pre-installed dependencies
`sample/`	ESAPI sample source code
`src/`	ESAPI core 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 `<root>/` directory to a suitable location outside of the document root on the target machine.

Build and Run the Samples

This release of ESAPI for PHP includes sample code to demonstrate its functionality.

To build the sample code:

1. Create a new project from source code using the ESAPI for PHP distribution.
2. Navigate to the `sample` directory.
3. Set the value of ESAPI configuration file to the correct path.

```
$ESAPI = new ESAPI(
       dirname(__FILE__)."/../ESAPI.xml");
```

4. Run the `Sample.php` file as a PHP script.

Uninstallation Instructions

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

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 ESAPI project page can be found here: http://www.owasp.org/index.php/ESAPI

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

- OWASP Application Security Verification Standard (ASVS) Project - http://www.owasp.org/index.php/ASVS
- OWASP Top Ten Project - http://www.owasp.org/index.php/Top_10
- OWASP Code Review Guide - http://www.owasp.org/index.php/Category:OWASP_Code_Review_Project
- 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, http://cwe.mitre.org/documents/vuln-trends.html
- PCI Security Standards Council - publishers of the PCI standards, relevant to all organizations processing or holding credit card data, https://www.pcisecuritystandards.org
- PCI Data Security Standard (DSS) v1.1 - https://www.pcisecuritystandards.org/pdfs/pci_dss_v1-1.pdf

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

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