



October / November 2015

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## News

In the midst of October, we are beginning to see the leaves blush and the return of pumpkin-flavored beer. The Secure Coding Initiative is continuing development on many fronts, with a goal of completing version 1.0 of the [SEI CERT C++ Coding Standard](#) by next September.

Fred Long and David Svoboda have built a four-day course on [Secure Coding in Java](#), based on our [CERT Oracle Secure Standard for Java](#). [Contact us](#) for more information.

David Svoboda has published a new blog post, [Is Java More Secure than C?](#) It addresses this question by comparing the rules in the CERT coding standards for [C](#) and [Java](#).

### How are you using the CERT Secure Coding Standards?



As a reader of this eNewsletter, your input is important to us. [Submit](#) your comments and let us know how you are using CERT Secure Coding Standards.

## Language Standards Updates

### CERT C Coding Standard

Editors: Martin Sebor (Red Hat, Inc) and Aaron Ballman (SEI/CERT)

#### **Added**

- [EXP45-C. Do not perform assignments in selection statements](#)  
Fixed a compile error in an NCCE and CS pair, and rearranged exceptions within the rule.

*No C rules were removed, deprecated, or substantively changed.*

## CERT C++ Secure Coding Standard

Editors: Martin Sebor (Red Hat, Inc) and Aaron Ballman (SEI/CERT)

C++ rules are in the process of being audited to determine automatic detection coverage by the Clang open source compiler.

### Added

- [OOP11-CPP. Do not copy-initialize members or base classes from a move constructor](#) Stubbed out the recommendation, but it could still use some work.

### Changed

- [DCL54-CPP. Overload allocation and deallocation functions as a pair in the same scope](#) Updated to allow deleted or private free store function definitions, which is a common practice in the presence of placement allocation functions.
- [DCL50-CPP. Do not define a C-style variadic function](#) Added an exception allowing the definition of a C-style variadic function if that function has external C language linkage.

*No C++ rules were removed or deprecated.*

## CERT Oracle Secure Coding Standard for Java

Editors: Brad Senetza (Oracle) and David Svoboda (SEI/CERT)

### Changed

- Added an explicit exception to [MET06-J. Do not invoke overridable methods in clone\(\)](#) permitting overridable method calls if they are prepended with super.

*No Java rules were added, removed, or deprecated.*

## CERT Secure Coding Standard for Android

Editors: Fred Long (Aberystwyth University) and Lori Flynn (SEI/CERT)

*No Android rules were added, removed, deprecated, or substantively changed.*

## CERT Perl Secure Coding Standard

Editor: David Svoboda (SEI/CERT)

*No Perl rules were added, removed, deprecated, or substantively changed.*

## Upcoming Events

**Workshop:** Third International Workshop on Mobile Development Lifecycle (MobileDeLi 2015)

Organizers: Lori Flynn (CERT), Aharon Abadi, and Jeff Gray

October 26, 2015, in Pittsburgh, Pennsylvania, United States

Details at <http://2015.splashcon.org/track/mobiledeli2015>

Collocated with the the ACM SIGPLAN conference on Systems, Programming, Languages and Applications: Software for Humanity (SPLASH)

**Conference:** [JavaOne](#), October 25-29, 2015, San Francisco, CA

David Svoboda will present [Anatomy of Yet Another Java Zero-Day Exploit \[CON1817\]](#)

## Our People

In the eNewsletter, we highlight staff members behind our secure coding research. This month we feature Fred Long.



**Fred Long** is a senior lecturer in the Department of Computer Science and chairman of the Institute of Mathematics Physics and Computer Science examination board at Aberystwyth University, United Kingdom. He lectures on programming-related security issues. He is chairman of the British Computer Society's Mid-Wales Branch. Fred has been a Visiting Scientist at the Software Engineering Institute since 1992. Recently, he has been working on the CERT Secure Coding Standard for Java.

## Secure Coding Resources



Read the Blog Post: [Is Java More Secure than C?](#) by David Svoboda.



Watch David Svoboda's [demonstration videos](#) of SCALe.

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