Introduction

An essential element of secure coding in the Perl programming language is well-documented and enforceable coding standards. Coding standards encourage programmers to follow a uniform set of rules and guidelines determined by the requirements of the project and organization rather than by the programmer's familiarity or preference. Once established, these standards can be used as a metric to evaluate source code (using manual or automated processes).

The CERT Perl Secure Coding Standard provides rules and recommendations for secure coding in the Perl programming language. The goal of these rules and recommendations is to eliminate insecure coding practices and undefined behaviors that can lead to exploitable vulnerabilities. The application of the secure coding standard will lead to higher-quality systems that are robust and more resistant to attack.

Scope
Tool Selection and Validation
Rules versus Recommendations
Development Process
Usage
System Qualities
Risk Assessment
VOID Vulnerability Metric
Source Code Validation
Automatically Generated Code