# CWE Detail – CWE-246

## Description

The J2EE application directly uses sockets instead of using framework method calls.

## Extended Description

The J2EE standard permits the use of sockets only for the purpose of communication with legacy systems when no higher-level protocol is available. Authoring your own communication protocol requires wrestling with difficult security issues. Without significant scrutiny by a security expert, chances are good that a custom communication protocol will suffer from security problems. Many of the same issues apply to a custom implementation of a standard protocol. While there are usually more resources available that address security concerns related to implementing a standard protocol, these resources are also available to attackers.

## Threat-Mapped Scoring

Score: 1.8

Priority: P4 - Informational (Low)

## Modes of Introduction

**•** Implementation: N/A

## Common Consequences

**•** Impact: Quality Degradation — Notes:

## Potential Mitigations

**•** Architecture and Design: Use framework method calls instead of using sockets directly. (Effectiveness: N/A)

## Applicable Platforms

**•** Java (Class: None, Prevalence: Undetermined)

## Demonstrative Examples

**•** A Socket object is created directly within the Java servlet, which is a dangerous way to manage remote connections.