# CWE Detail – CWE-487

## Description

Java packages are not inherently closed; therefore, relying on them for code security is not a good practice.

## Extended Description

The purpose of package scope is to prevent accidental access by other parts of a program. This is an ease-of-software-development feature but not a security feature.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Modes of Introduction

**•** Implementation: N/A

## Common Consequences

**•** Impact: Read Application Data — Notes: Any data in a Java package can be accessed outside of the Java framework if the package is distributed.

**•** Impact: Modify Application Data — Notes: The data in a Java class can be modified by anyone outside of the Java framework if the packages is distributed.

## Potential Mitigations

**•** Architecture and Design: Data should be private static and final whenever possible. This will assure that your code is protected by instantiating early, preventing access and tampering. (Effectiveness: N/A)

## Applicable Platforms

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

## Demonstrative Examples

**•** N/A