# CWE Detail – CWE-577

## Description

The product violates the Enterprise JavaBeans (EJB) specification by using sockets.

## Extended Description

The Enterprise JavaBeans specification requires that every bean provider follow a set of programming guidelines designed to ensure that the bean will be portable and behave consistently in any EJB container. In this case, the product violates the following EJB guideline: "An enterprise bean must not attempt to listen on a socket, accept connections on a socket, or use a socket for multicast." The specification justifies this requirement in the following way: "The EJB architecture allows an enterprise bean instance to be a network socket client, but it does not allow it to be a network server. Allowing the instance to become a network server would conflict with the basic function of the enterprise bean-- to serve the EJB clients."

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Modes of Introduction

**•** Implementation: N/A

## Common Consequences

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

## Potential Mitigations

**•** Architecture and Design: Do not use Sockets when writing EJBs. (Effectiveness: N/A)

## Applicable Platforms

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

## Demonstrative Examples

**•** And the following Java example is similar to the previous example but demonstrates the use of multicast socket connections within an Enterprise JavaBean.