# CWE Detail – CWE-773

## Description

The product does not properly maintain references to a file descriptor or handle, which prevents that file descriptor/handle from being reclaimed.

## Extended Description

This can cause the product to consume all available file descriptors or handles, which can prevent other processes from performing critical file processing operations.

## Threat-Mapped Scoring

Score: 0.0

Priority: Unclassified

## Modes of Introduction

**•** Implementation: N/A

## Common Consequences

**•** Impact: DoS: Resource Consumption (Other) — Notes: An attacker that can influence the allocation of resources that are not properly maintained could deplete the available resource pool and prevent all other processes from accessing the same type of resource.

## Potential Mitigations

**•** Operation: Use resource-limiting settings provided by the operating system or environment. For example, when managing system resources in POSIX, setrlimit() can be used to set limits for certain types of resources, and getrlimit() can determine how many resources are available. However, these functions are not available on all operating systems. When the current levels get close to the maximum that is defined for the application (see CWE-770), then limit the allocation of further resources to privileged users; alternately, begin releasing resources for less-privileged users. While this mitigation may protect the system from attack, it will not necessarily stop attackers from adversely impacting other users. Ensure that the application performs the appropriate error checks and error handling in case resources become unavailable (CWE-703). (Effectiveness: N/A)