## Talos Vulnerability Report

TALOS-2020-1147

## Kepware LinkMaster Service privilege escalation vulnerability

DECEMBER 16, 2020

CVF NUMBER

CVE-2020-13535

### Summary

A privilege escalation vulnerability exists in Kepware LinkMaster 3.0.94.0. In its default configuration, an attacker can globally overwrite service configuration to execute arbitrary code with NT SYSTEM privileges.

Tested Versions

Kepware LinkMaster 3.0.94.0

Product URLs

https://www.kepware.com/en-us/products/linkmaster/

CVSSv3 Score

9.3 - CVSS:3.0/AV:L/AC:L/PR:N/UI:N/S:C/C:H/I:H/A:H

CWE

CWE-276 - Incorrect Default Permissions

Details

Kepware LinkMaster is a product linking various OPC servers and clients providing a means of communication between current DDE/OPC and legacy clients and applications.

The vulnerability arises due to incorrect defauly permissions set on LinkMasterV3 service which grants Everyone group access to the SERVICE\_CHANGE\_CONFIG option allowing anyone to reconfigurethe service in any manner. A local attacker can use this vulnerability to modify the existing service binary to point to an arbitrary executable which will run with NT SYSTEM privileges.

LinkMasterV3
RW Everyone
SERVICE\_QUERY\_STATUS
SERVICE\_QUERY\_CONFIG
SERVICE\_START
SERVICE\_START
SERVICE\_STOP
RW NT AUTHORITY\SYSTEM
SERVICE\_ALL\_ACCESS
RW BUILTIN\Administrators
SERVICE\_ALL\_ACCESS

Timeline

2020-09-08 - Vendor Disclosure 2020-12-16 - Public Release

CREDIT

Discovered by Yuri Kramarz of Cisco Talos.

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