LSA-610622: Vulnerability discovered in FBX SDK used in KeyShot

- Publication Date: 2023-03-14
- Last Update: 2023-03-14
- Current Version: 1.0
- CVSS v3.1 Base Score: 7.8

Summary

Trend Micro’s Zero Day Initiative (ZDI) discovered and disclosed a vulnerability pertaining to Autodesk FBX SDK 2020.0.1 and before, which is used by Luxion software:

- CVE-2021-27044 (ZDI-CAN-18490)

More information at: https://www.zerodayinitiative.com/advisories/published/

Luxion has mitigated for the vulnerability in KeyShot 2023.1 by updating from Autodesk FBX SDK 2020.2.1 to 2020.3.2. The vulnerability was fixed in 2020.2.2, as per ADSK-SA-2021-0001, but the recommendation was to upgrade to 2020.3.2.

Affected Products and Remediation

- KeyShot
  - Affected versions: All versions before 2023.1
  - Remediation: Upgrade to version 2023.1 or later

Product Description

KeyShot is a photo-realistic real-time rendering program with a scene structure that can be setup and manipulated for rendering. It allows import of various CAD formats into its scene structure.

Vulnerability Classification

Classification of the vulnerabilities has been done by using CVSS 3.1 (https://nvd.nist.gov/vuln-metrics/cvss/) with additional CWE classification (https://cwe.mitre.org/).

Importing of malicious FBX file would cause heap-based buffer overflow via KeyShot’s FBX importer luxion_geometry_fbx.exe. It may allow an attacker to execute arbitrary code.

- CVE-2021-27044
- CVSS v3.1 base score: 7.8
- CWE-125: Out-of-bounds Read
- CWE-787: Out-of-bounds Write

Acknowledgments

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- Autodesk for coordination efforts and fixing vulnerability in bundled libraries (ADSK-SA-2021-0001)
- Siemens for coordination efforts
- Cybersecurity and Infrastructure Security Agency (CISA) for coordination efforts

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Additional Information

Further details about Luxion CSIRT and advisories can be found at: https://www.keyshot.com/csirt/

History Data

v1.0 (2023-03-14): Publication date

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