

## 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
- CVSS vector: CVSS:3.1/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
- CWE-125: Out-of-bounds Read
- CWE-787: Out-of-bounds Write

### Acknowledgments

Luxion thanks the following parties for their efforts:

- 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

## 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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