



# CVE-2021-46583

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## CVE-2021-46583

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Microstation](#) from [Bentley](#) contain the following vulnerability:

This vulnerability allows remote attackers to execute arbitrary code on affected installations of Bentley MicroStation CONNECT 10.16.0.80. User interaction is required to exploit this vulnerability in that the target must visit a malicious page or open a malicious file. The specific flaw exists within the parsing of J2K images. Crafted data in a J2K image can trigger a write past the end of an allocated buffer. An attacker can leverage this vulnerability to execute code in the context of the current process. Was ZDI-CAN-15377.

CVE-2021-46583 has been assigned by zdi-disclosures@trendmicro.com to track the vulnerability - currently rated as **HIGH** severity.

Affected Vendor/Software: **Bentley - MicroStation CONNECT** version **10.16.0.80**

CVSS3 Score: **7.8 - HIGH**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>LOCAL</b>     | <b>LOW</b>             | <b>NONE</b>         | <b>REQUIRED</b>     |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **6.8 - MEDIUM**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>NETWORK</b>         | <b>MEDIUM</b>     | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>PARTIAL</b>         | <b>PARTIAL</b>    | <b>PARTIAL</b>      |

CVE References

| Description                                                                                                        | Tags                                                                                                                                        | Link                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ZDI-22-170   Zero Day Initiative                                                                                   | <a href="#">Third Party Advisory</a><br><a href="#">VDB Entry</a><br><a href="#">www.zerodayinitiative.com</a><br><a href="#">text/html</a> |  MISC<br><a href="https://www.zerodayinitiative.com/advisories/ZDI-22-170/">www.zerodayinitiative.com/advisories/ZDI-22-170/</a>                        |
| BE-2021-0006: Out-of-Bounds and use-after-free vulnerabilities in MicroStation and MicroStation-based applications | <a href="#">Vendor Advisory</a><br><a href="#">www.bentley.com</a><br><a href="#">text/html</a>                                             |  MISC <a href="https://www.bentley.com/en/common-vulnerability-exposure/BE-2021-0006">www.bentley.com/en/common-vulnerability-exposure/BE-2021-0006</a> |

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There are currently no QIDs associated with this CVE

#### Known Affected Configurations (CPE V2.3)

| Type                                              | Vendor                  | Product                              | Version | Update | Edition | Language |
|---------------------------------------------------|-------------------------|--------------------------------------|---------|--------|---------|----------|
| Application                                       | <a href="#">Bentley</a> | <a href="#">Microstation</a>         | All     | All    | All     | All      |
| Application                                       | <a href="#">Bentley</a> | <a href="#">Microstation Connect</a> | All     | All    | All     | All      |
| Application                                       | <a href="#">Bentley</a> | <a href="#">View</a>                 | All     | All    | All     | All      |
| cpe:2.3:a:bentley:microstation:*:*:*:*:*:         |                         |                                      |         |        |         |          |
| cpe:2.3:a:bentley:microstation_connect:*:*:*:*:*: |                         |                                      |         |        |         |          |
| cpe:2.3:a:bentley:view:*:*:*:*:*:                 |                         |                                      |         |        |         |          |

#### Discovery Credit

Mat Powell of Trend Micro Zero Day Initiative

#### Social Mentions

| Source                                                                                        | Title                                                                                                                                                                                                   | Posted (UTC)        |
|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|  @CVEreport | CVE-2021-46583 : This vulnerability allows remote attackers to execute arbitrary code on affected installations of... <a href="https://twitter.com/i/web/status/1...">twitter.com/i/web/status/1...</a> | 2022-03-01 00:15:33 |

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