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## RUSTSEC-2021-0015

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`Sectors::get` accesses unclaimed/uninitialized memory

**Reported** January 6, 2021

**Issued** January 30, 2021 (last modified: October 19, 2021)

**Package** [calamine](#) ([crates.io](#))

**Type** Vulnerability

**Categories** [memory-corruption](#)  
[memory-exposure](#)

**Aliases** [CVE-2021-26951](#)

**Details** <https://github.com/tafia/calamine/issues/199>

**CVSS Score** 9.8 CRITICAL

### CVSS Details

<b>Attack vector</b>	Network
<b>Attack complexity</b>	Low
<b>Privileges required</b>	None
<b>User interaction</b>	None
<b>Scope</b>	Unchanged
<b>Confidentiality</b>	High
<b>Integrity</b>	High
<b>Availability</b>	High

**CVSS Vector** [CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H](#)

**Patched** `>=0.17.0`

### Description

Affected versions of this crate arbitrarily calls `Vec::set_len` to increase length of a vector without claiming more memory for the vector.

Affected versions of this crate also calls user-provided `Read` on the uninitialized memory of the vector that was extended with

`Vec::set_len`.

This can overwrite active entities in adjacent heap memory and seems to be a major security issue. Also, calling user-provided `Read` on uninitialized memory is defined as UB in Rust.