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## RUSTSEC-2021-0014

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Record::read : Custom `Read` on uninitialized buffer may cause UB

**Reported** January 26, 2021

**Issued** January 27, 2021 (last modified: October 19, 2021)

**Package** [marc \(crates.io\)](#)

**Type** Vulnerability

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

**Aliases** [CVE-2021-26308](#)

**Details** <https://github.com/blackbeam/rust-marc/issues/7>

**CVSS Score** 7.5 HIGH

### 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>	None
<b>Availability</b>	None

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

**Patched** `>=2.0.0`

### Description

Affected versions of this crate passes an uninitialized buffer to a user-provided `Read` implementation. ( `Record::read()` )

Arbitrary `Read` implementations can read from the uninitialized buffer (memory exposure) and also can return incorrect number of bytes written to the buffer. Reading from uninitialized memory produces undefined values that can quickly invoke undefined behavior.

This flaw was fixed in commit 6299af0 by zero-initializing the newly allocated memory (via `data.resize(len, 0)` ) instead of exposing uninitialized memory ( `unsafe { data.set_len(len) }` ).