

# Security #7267 CLOSED



## ja4: non alphanumeric characters in alpn lead to panic

Added by Philippe Antoine over 1 year ago. Updated over 1 year ago.



<b>Status:</b>	Closed		
<b>Priority:</b>	Normal		
<b>Assignee:</b>	Philippe Antoine		
<b>Target version:</b>	8.0.0-beta1		
<b>Affected Versions:</b>		<b>Git IDs:</b>	1e152d1f1060a5afd39496d4f2556e7159cd22cc
<b>Label:</b>		<b>Severity:</b>	CRITICAL
<b>CVE:</b>	2024-47522	<b>Disclosure Date:</b>	12/23/2024

### Description

Found by oss-fuzz:

<https://issues.oss-fuzz.com/issues/368729563>

And we did not follow what the spec described for the case [https://github.com/FoxIO-LLC/ja4/blob/main/technical\\_details/JA4.md#alpn-extension-value](https://github.com/FoxIO-LLC/ja4/blob/main/technical_details/JA4.md#alpn-extension-value)

### Subtasks 1 (0 open — 1 closed)

Security #7268: ja4: non alphanumeric characters in alpn lead to panic (7.0.x backport)	Closed	Philippe Antoine	...
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- History
- Notes
- Property changes

OT Updated by OISF Ticketbot over 1 year ago 👍 ... #1

- Subtask #7268 added

OT Updated by OISF Ticketbot over 1 year ago 👍 ... #2

- Label deleted (*Needs backport to 7.0*)

PA Updated by Philippe Antoine over 1 year ago 👍 ... #3

- Status changed from *New* to *In Review*
- Label *Needs backport to 7.0* added

Gitlab MR

PA Updated by Philippe Antoine over 1 year ago 👍 ... #4

- Label deleted (*Needs backport to 7.0*)

PA Updated by Philippe Antoine over 1 year ago 👍 ... #5

Stack trace :

```
thread '<unnamed>' panicked at src/ja4.rs:265:16:
source slice length (37) does not match destination slice length (36)
```

```
#0 0x7adeac77f00b in raise /build/glibc-LcI20x/glibc-2.31/sysdeps/unix/sysv/linux/raise.c:51:1
#1 0x7adeac75e858 in abort /build/glibc-LcI20x/glibc-2.31/stdlib/abort.c:79:7
#2 0x5a3fa7ac8086 in std::sys::pal::unix::abort_internal::h6262fe410407344a /rustc/1a648b397dedc
#3 0x5a3fa7abdab8 in rust_panic /rustc/1a648b397dedc98ada3dd3360f6d661ec2436c56/library/std/src/
#4 0x5a3fa7abd899 in std::panicking::rust_panic_with_hook::haac9f65a4111ce33 /rustc/1a648b397dec
#5 0x5a3fa7abd5a1 in std::panicking::begin_panic_handler::_$u7b$$u7b$closure$u7d$$u7d$::h6a452ac
#6 0x5a3fa7abaaa5 in std::sys_common::backtrace::__rust_end_short_backtrace::ha4c176c669fc3286 /
#7 0x5a3fa7abd2f3 in rust_begin_unwind /rustc/1a648b397dedc98ada3dd3360f6d661ec2436c56/library/s
#8 0x5a3fa49e5fd4 in core::panicking::panic_fmt::hfae197985af26789 /rustc/1a648b397dedc98ada3dd3
#9 0x5a3fa49e66f1 in core::slice::_$LT$impl$u20$$u5b$$T$u5d$$GT$::copy_from_slice::len_mismatch_f
#10 0x5a3fa5799db2 in core::slice::_$LT$impl$u20$$u5b$$T$u5d$$GT$::copy_from_slice::h18261594c9e1
#11 0x5a3fa5799db2 in SCJA4GetHash suricata/rust/src/ja4.rs:265:5
#12 0x5a3fa4bcdb3c in GetData suricata/src/detect-ja4-hash.c:147:9
#13 0x5a3fa4b5efb3 in PrefilterMpm suricata/src/detect-engine-prefilter.c:727:32
#14 0x5a3fa4b58c9a in DetectRunPrefilterTx suricata/src/detect-engine-prefilter.c:125:9
#15 0x5a3fa4ff0818 in DetectRunTx suricata/src/detect.c:1466:13
#16 0x5a3fa4ff0818 in DetectRun suricata/src/detect.c:174:9
#17 0x5a3fa4febb78 in Detect suricata/src/detect.c:0
#18 0x5a3fa4c73ff5 in FlowWorker suricata/src/flow-worker.c:636:9
#19 0x5a3fa4ac19d9 in LLVMFuzzerTestOneInput suricata/src/tests/fuzz/fuzz_sigcap_aware.c:179:13
```

vj Updated by Victor Julien over 1 year ago

👍 ... #6

- **Severity** changed from *MODERATE* to *CRITICAL*

JF Updated by Juliana Fajardini Reichow over 1 year ago

👍 ... #7

- **CVE** set to 2024-47522

🔗 <https://github.com/OISF/suricata/security/advisories/GHSA-w5xv-6586-jpm7>

PA Updated by Philippe Antoine over 1 year ago

👍 ... #8

- **Status** changed from *In Review* to *Closed*

🔗 <https://github.com/OISF/suricata/commit/1e152d1f1060a5afd39496d4f2556e7159cd22cc>

PA Updated by Philippe Antoine over 1 year ago

👍 ... #9

- **Git IDs** updated (diff)

vj Updated by Victor Julien over 1 year ago

👍 ... #10

- **Private** changed from *Yes* to *No*