### Suricata - Task #3195
**tracking: rustify all input**
09/26/2019 08:41 AM - Victor Julien

<table>
<thead>
<tr>
<th>Status</th>
<th>New</th>
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</thead>
<tbody>
<tr>
<td>Priority</td>
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<tr>
<td>Assignee</td>
<td>OISF Dev</td>
</tr>
<tr>
<td>Category</td>
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<td>Target version</td>
<td>TBD</td>
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<tr>
<td>Effort</td>
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<tr>
<td>Difficulty</td>
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</tbody>
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**Description**

Goal is to make sure all untrusted input is handled by Rust code instead of C code.

**Related issues:**

- Related to Optimization #2977: replace asn1 parser with rust based implementation added
- Related to Optimization #2979: replace mime decoder with rust based implementation added
- Related to Task #2778: tracking: port app-layer parsers to Rust
- Related to Feature #3317: rules: use rust for tokenizing rules
- Related to Bug #3517: Convert DER parser to Rust
- Related to Task #3957: Convert protocol to Rust: Modbus
- Related to Task #3958: Convert protocol to Rust: ENIP
- Related to Task #4082: Convert FTP to Rust
- Related to Task #4095: tracking: unify rule keyword value parsing
- Related to Task #4161: Convert TLS parser to Rust

**History**

#### #1 - 09/26/2019 08:42 AM - Victor Julien

- Related to Optimization #2977: replace asn1 parser with rust based implementation added

#### #2 - 09/26/2019 08:42 AM - Victor Julien

- Related to Optimization #2979: replace mime decoder with rust based implementation added

#### #3 - 09/26/2019 09:38 AM - Victor Julien

- Related to Task #2778: tracking: port app-layer parsers to Rust added

#### #4 - 11/05/2019 12:07 PM - Victor Julien

- Related to Feature #3317: rules: use rust for tokenizing rules added

#### #5 - 02/25/2020 11:11 AM - Victor Julien

- Priority changed from Normal to High

#### #6 - 03/27/2020 06:42 PM - Victor Julien

- Related to Bug #3517: Convert DER parser to Rust added

#### #7 - 06/23/2020 06:42 AM - Philippe Antoine

Useful as well for signature parsing cf [https://github.com/OISF/suricata/pull/5081/files#r442105437](https://github.com/OISF/suricata/pull/5081/files#r442105437)

#### #8 - 06/25/2020 04:35 PM - Jason Ish

Philippe Antoine wrote in #note-7:

> Useful as well for signature parsing cf [https://github.com/OISF/suricata/pull/5081/files#r442105437](https://github.com/OISF/suricata/pull/5081/files#r442105437)

One example of parsing a part of a signature in Rust is for DNS opcode:
Another example of what to do:
https://github.com/OISF/suricata/pull/5095#discussion_r444300697

Rustify structure `StreamingBufferConfig` so that we can use it easily in Rust

- Related to Feature #3957: Convert protocol to Rust: Modbus added
- Related to Feature #3958: Convert protocol to Rust: ENIP added
- Related to Task #4082: Convert FTP to Rust added
- Related to Task #4095: tracking: unify rule keyword value parsing added
- Related to Task #4161: Convert TLS parser to Rust added