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# Commit beee2dc



**sbabic** committed on Mar 24

## mongoose: Integer Underflow in Multipart Upload Parser

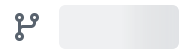
The function `mg_http_multipart_continue_wait_for_chunk()` has a discrepancy between its guard condition and a subsequent subtraction in the else branch. The guard at line 250 checks `^(int) io->len < mp_stream->boundary.len + 6``, allowing execution to continue when `io->len >= boundary.len + 6`. However, when `mg_strstr()` finds the boundary string in the buffer (else branch at line 264), `data_len` is computed as `io->len - (mp_stream->boundary.len + 8)``. The +6 vs +8 mismatch means that when `io->len` is in the range `[boundary.len + 6, boundary.len + 7]`, the subtraction underflows the `size_t` variable to `SIZE_MAX` or `SIZE_MAX - 1`.

This will fix CVE-2026-28525.

Description of issue copied from vulnerability report - many thanks to Kazuma for his analyses.

Signed-off-by: Stefano Babic <stefano.babic@swupdate.org>

Reported by: Kazuma Matsumoto, a security researcher at GMO Cybersecurity by IERAE, Inc."



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**1 file changed**

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| 📄 mongoose\_multipart.c

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```
mongoose/mongoose_multipart.c
@@ -261,12 +261,12 @@ static int
mg_http_multipart_continue_wait_for_chunk(struct mg_connection *c) {
261 261     }
262 262     return 0;
263 263     } else {
264 -     size_t data_len = io->len - (mp_stream->boundary.len + 8);
264 +     size_t data_len = io->len - (mp_stream->boundary.len + 6);
265 265     size_t consumed = mg_http_multipart_call_handler(c,
MG_EV_HTTP_PART_DATA,
266 -     (char *) io->buf,
data_len);
266 +     (char *) io->buf, data_len);
267 267     mg_iobuf_del(io, 0, consumed);
268 268     if (consumed == data_len) {
269 -     mg_iobuf_del(io, 0, mp_stream->boundary.len + 8);
269 +     mg_iobuf_del(io, 0, mp_stream->boundary.len + 6);
270 270     mp_stream->state = MPS_FINALIZE;
271 271     return 1;
272 272     } else {
```

## Comments 0

Placeholder for comments, showing a profile picture and a text input area.