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Incorrect checks on length in babeld #10502

✓ Closeddb-sca opened this issue on Feb 4 · 2 comments · Fixed by [#10504](#)

db-sca commented on Feb 4 • edited ▼

The check at Line 310 is not correct. It should be `i + len + 2 > bodylen` rather than `i + len > bodylen`, because `len` does not include the first two bytes, i.e., `message[0]` and `message[1]`

[frr/babeld/message.c](#)

Lines 300 to 312 in ab68283

```
300     type = message[0];
301     if(type == MESSAGE_PAD1) {
302         i++;
303         continue;
304     }
305     if(i + 1 > bodylen) {
306         debugf(BABEL_DEBUG_COMMON, "Received truncated message.");
307         return 1;
308     }
309     len = message[1];
310     if(i + len > bodylen) {
311         debugf(BABEL_DEBUG_COMMON, "Received truncated message.");
```

db-sca commented on Feb 4 • edited ▼





Author




The check at Line 305 is also incorrect. It should be `i + 2 > bodylen` rather than `i + 1 > bodylen`.

You may feed the packet "2a:02:00:01:02" to the function to reproduce an overflow at Line 309.

  db-sca changed the title ~~An incorrect check on length in babeld~~ Incorrect checks on length in babeld on Feb 4



- qingkaishi added a commit to qingkaishi/frr that referenced this issue on Feb 4
-  babeld: fix [FRRouting#10502](#) [FRRouting#10503](#) by repairing the checks o... 05a1985
- qingkaishi mentioned this issue on Feb 4
- babeld: fix the checks for truncated packets #10504**
-  Merged
- qingkaishi added a commit to qingkaishi/frr that referenced this issue on Feb 4
-  babeld: fix [FRRouting#10502](#) [FRRouting#10503](#) by repairing the checks o... c379335
-  donaldsharp closed this as completed in [#10504](#) on Feb 8

- mergify  pushed a commit that referenced this issue on Feb 8
-  babeld: fix [#10502](#) [#10503](#) by repairing the checks on length ✗ 8d45143
- plsaranya pushed a commit to plsaranya/frr that referenced this issue on Feb 28
-  babeld: fix [FRRouting#10502](#) [FRRouting#10503](#) by repairing the checks o... ac79863


qlyoung commented on Mar 28

Member

Assigned [CVE-2022-26128](#) with a score of 7.8.

No assessment of exploitability has been made.

Please see my comment [here](#).

- patrasar pushed a commit to patrasar/frr that referenced this issue on Apr 28
-  babeld: fix [FRRouting#10502](#) [FRRouting#10503](#) by repairing the checks o... 5916eb6
- gpnavveen pushed a commit to gpnavveen/frr that referenced this issue on Jun 7
-  babeld: fix [FRRouting#10502](#) [FRRouting#10503](#) by repairing the checks o... 8876609

Assignees

No one assigned

Labels

None yet

Projects


None yet

Milestone

No milestone

Development

Successfully merging a pull request may close this issue.

 **babeld: fix the checks for truncated packets**
qingkaishi/frr

2 participants

