# Telegram rlottie 7.0.1 2065 LottieParserImpl::parseDashProperty Heap **Buffer Overflow**

### Summary

Telegram rlottie 7.0.1\_2065 is affected by a Heap Buffer Overflow in the LottieParserImpl::parseDashProperty function: a remote attacker might be able to access heap memory out-of-bounds on a victim device. Note: we'll walk through the android app sources, but the issue applies to iOS and macOS Telegram apps too.

### Product Description (from vendor)

## CVE(s)

• CVE-2021-31323

### Details

### Root Cause Analysis

Telegram uses a custom fork of <u>riortie</u> to render <u>animated stickers</u>. The vulnerability is a heap-based buffer overflow which originates in LottleParserIng1: parsebaskProperty (starting at <a href="https://pithub.com/DRIO/Telegram/blob/release-2-01-2065/TMessanesProj/mir/dottle/src/lottle/Jottleparser.com/L1866">https://pithub.com/DRIO/Telegram/blob/release-2-01-2065/TMessanesProj/mir/dottle/src/lottle/Jottleparser.com/L1866</a> is an out-of-bounds read access is performed because the actual number of dishles in the animated sticker is not verified before accessing heap memory.

7.0.1.2065/TMessagesProj/figir/tottie/src/tottie/lottiemodel.Pul.687 ). In case there are more dashes, out-of-bounds memory is accessed in <a href="https://qithub.com/DrKLO/Telegram/blob/release-7.0.1.2065/TMessagesProj/fini/rlottie/src/tottie/lottieparser.cop#L2381">https://qithub.com/DrKLO/Telegram/blob/release-7.0.1.2065/TMessagesProj/fini/rlottie/src/tottie/lottieparser.cop#L2381</a>.

A blogpost will be published soon on our blog with a PoC walkthrough and further details.

### Remediation

### Disclosure Timeline

### Credits

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### INFO

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