

Alpine Linux - Bug #6756

Bug # 6755 (Closed): openssl: Multiple issues (CVE-2017-3731, CVE-2017-3732, CVE-2016-7055)

[3.5] openssl: Multiple issues (CVE-2017-3731, CVE-2017-3732, CVE-2016-7055)

01/27/2017 09:40 AM - Alichu CH

Status: Closed	Start date: 01/27/2017
Priority: Normal	Due date:
Assignee:	% Done: 100%
Category: Security	Estimated time: 0.00 hour
Target version: 3.5.2	Security IDs:
Affected versions:	

Description

CVE-2017-3731: Truncated packet could crash via OOB read

If an SSL/TLS server or client is running on a 32-bit host, and a specific cipher is being used, then a truncated packet can cause that server or client to perform an out-of-bounds read, usually resulting in a crash.

For OpenSSL 1.1.0, the crash can be triggered when using CHACHA20/POLY1305; users should upgrade to 1.1.0d

For Openssl 1.0.2, the crash can be triggered when using RC4-MD5; users who have not disabled that algorithm should update to 1.0.2k

Fixed In Version:

openssl 1.0.2k, openssl 1.1.0d

Reference:

<https://www.openssl.org/news/secadv/20170126.txt>

CVE-2017-3732: BN_mod_exp may produce incorrect results on x86_64

There is a carry propagating bug in the x86_64 Montgomery squaring procedure. No EC algorithms are affected. Analysis suggests that attacks against RSA and DSA as a result of this defect would be very difficult to perform and are not believed likely.

Fixed In Version:

openssl 1.0.2k, openssl 1.1.0d

Reference:

<https://www.openssl.org/news/secadv/20170126.txt>

CVE-2016-7055: Montgomery multiplication may produce incorrect results

There is a carry propagating bug in the Broadwell-specific Montgomery multiplication procedure that handles input lengths divisible by, but longer than 256 bits. Analysis suggests that attacks against RSA, DSA and DH private keys are impossible. This is because the subroutine in question is not used in operations with the private key itself and an input of the attacker's direct choice.

Fixed In Version:

openssl 1.0.2k, openssl 1.1.0c

Reference:

<https://www.openssl.org/news/secadv/20170126.txt>

History

#1 - 01/27/2017 09:55 AM - Alichia CH

fixed in [alpine:7abfb24fbe3c77b8d5d64832e928da044de29c7f](#)

#2 - 01/27/2017 09:56 AM - Alichia CH

- Status changed from *New* to *Resolved*

- % Done changed from 0 to 100

#3 - 01/27/2017 10:03 AM - Alichia CH

- Category set to *Security*

- Status changed from *Resolved* to *Closed*