

# TLS-SSL - CVE-2016-6302

PUBLISHED: JULY 29, 2018 | LAST UPDATE: JULY 29, 2018

## SUMMARY

In September 2016, openssl.org released a security advisory detailing several security issues. The following vulnerabilities that may affect the TLS/SSL data plane of ACOS devices reported in that advisory are addressed in this document.

Item #	Vulnerability ID	Score Source	Score	Summary
1	CVE-2016-6302	CVSS 3.0	7.5 High	Malformed SHA512 ticket DoS

## AFFECTED RELEASES

The table below indicates releases of ACOS exposed to these vulnerabilities and ACOS releases that address them. ACOS release families not indicated below are unaffected by these vulnerabilities.

Customers using affected ACOS releases can overcome vulnerability exposures by updating to the indicated resolved release. If the table does not list a corresponding resolved or unaffected release, then no ACOS release update is currently available.

Releases Affected			Releases Resolved or Unaffected		
4.1.4	–	4.1.4-P1	4.1.4	–	4.1.4-P2
4.1.2	–	4.1.2-P4	4.1.2	–	4.1.2-P5
4.1.1	–	4.1.1-P8	4.1.1	–	4.1.1-P9
4.1.0	–	4.1.0-P11	4.1.0	–	4.1.0-P12
2.7.2	–	2.7.2-P12	2.7.2	–	2.7.2-P13
2.7.1-GR1	–	2.7.1-GR1-Px	2.7.1-GR1	–	2.7.2-P13, 4.1.0-P12, 4.1.1-P9, 4.1.4-P2
2.6.1-GR1	–	2.6.1-GR1-P16	2.6.1-GR1	–	2.7.2-P13, 4.1.0-P12, 4.1.1-P9, 4.1.4-P2

## WORKAROUNDS AND MITIGATIONS

None

## SOFTWARE UPDATES

Software updates that address these vulnerabilities are or will be published at the following URL:

<http://www.a10networks.com/support/axseries/software-downloads>

## VULNERABILITY DETAILS

The following table shares brief descriptions for the vulnerabilities addressed in this document.

Vulnerability ID	Description
CVE-2016-6302	<p>If a server uses SHA512 for TLS session ticket HMAC it is vulnerable to a DoS attack where a malformed ticket will result in an OOB read which will ultimately crash.</p> <p>The use of SHA512 in TLS session tickets is comparatively rare as it requires a custom server callback and ticket lookup mechanism.</p>

## RELATED LINKS

Ref #	General Link
[1]	<a href="#">NIST NVD, CVE-2016-6302</a>

## ACKNOWLEDGEMENTS

None

## MODIFICATION HISTORY

Revision	Date	Description
1.0	2018-07-27	Initial Publication

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