

# OPENSSH SCP - CVE-2020-15778

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#### **Summary**

In July 2020, a vulnerability was disclosed that could allow an SCP client's user to run arbitrary commands on a remote SCP server. This vulnerability cannot be exploited by an ACOS administrator. ACOS does not expose the "scp" command directly to administrators of ACOS systems. The parameters (fields) are processed by the ACOS CLI and GUI backend to generate "scp" commands in ACOS. The parameter structures and backtick characters needed to exploit this issue are detected when parsed and will result in syntax errors. Accordingly, A10 Networks ACOS products are not exposed to this issue.

Item		Score		
#	Vulnerability ID	Source	Score	Summary
1	CVE-2020-15778	CVSSv3	7.8 High	openssh: scp allows command injection when using backtick
				characters in the destination argument [1]

#### Affected Releases

The table below indicates releases of ACOS exposed to this vulnerability 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
None	6.0.x
None	5.1.0 – 5.2.1-Px
None	5.0.1-TPS – 5.0.2-TPS-Px
None	4.1.4-GR1 – 4.1.4-GR1-Px
None	3.2.5 – 3.2.5-Px

#### **Workarounds and Mitigations**

To mitigate this vulnerability, ensure that administrative access to ACOS devices is constrained to only trusted administrators.

If needed, an additional mitigation can be to ensure communication between ACOS devices and SCP servers is secured via local or network firewalls which are configured to block SCP connections from the ACOS devices. Since this will block SCP file transfers from the ACOS device, use alternate secure file transfer methods when managing and configuring these devices. Other ACOS secure file transfer methods available include SFTP and HTTPS, which are not exposed to this vulnerability.

#### **Software Updates**

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

https://support.a10networks.com/



# **Vulnerability Details**

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

Vulnerability ID	D Description
CVE-2020-1577	8 scp in OpenSSH through 8.3p1 allows command injection in the scp.c toremote function, as
	demonstrated by backtick characters in the destination argument. NOTE: the vendor reportedly
	has stated that they intentionally omit validation of "anomalous argument transfers" because
	that could "stand a great chance of breaking existing workflows."

### **Related Links**

Ref#	General Link	
[1]	NIST NVD, CVE-2020-15778	

## Acknowledgements

None

## **Modification History**

Revision	Date	Description
1.0	2022-10-31	Initial Publication
2.0	2024-10-31	Update, scp CLI command will not accept back-ticks in scp parameters.
3.0	2025-05-28	Update to clearly indicate that ACOS is not exposed to this issue.

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