

ID 20190412 FAQ**Dragonblood Vulnerabilities – VU#871675**

CVE-2019-9494
CVE-2019-9495
CVE-2019-9496
CVE-2019-9497
CVE-2019-9498
CVE-2019-9499

Initial Internal Release Date: **04/12/2019**

Initial Release to the public: **04/12/2019**

Update Release Date: **04/12/2019**

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Summary

Security researchers have reported new vulnerabilities in the WPA3-Personal protocol. Simultaneous Authentication of Equals (SAE) handshake, a.k.a Dragonfly vulnerabilities could be exploited to perform DOS attack or to gain access to the network and attack the EAP-pwd server or peer. For more detail about these vulnerabilities, please refer here:

<https://wpa3.mathyvanhoef.com>

What are the issues?

These vulnerabilities are assigned the CVE IDs and details of the same are explained as below:

CVE ID	CVE Description
VU#871675	Denial of Service attack against Dragonfly handshake and downgrade attack against WPA3 transition mode leading to dictionary attack.
CVE-2019-9494	Cache-based side-channel attack against Dragonfly handshake.
CVE-2019-9495	Cache-based side-channel attack against EAP-pwd.
CVE-2019-9496	SAE confirm missing state validation could cause hostapd process termination, which can be exploited to perform DOS attack.
CVE-2019-9497	EAP-pwd server missing commit validation for reflection attack can be exploited to complete authentication without password but cannot derive the session key to complete the 4-way handshake.
CVE-2019-9498	EAP-pwd server missing commit validation for scalar can be exploited to gain access to the network and derive session keys and perform more sophisticated attacks on EAP server.
CVE-2019-9499	EAP-pwd peer missing commit validation for scalar can be exploited to gain access to the network and derive session keys and perform more sophisticated attacks on EAP peer.

ID 20190412 FAQ

What is the impact on Ruckus products?

No Ruckus products are impacted as WPA3 authentication shall be available in SmartZone, ZD and Unleashed from Releases marked below with appropriate security patches integrated.

Platform	Release*	Target Patch Release Date
SmartZone	5.1 or Before	No Impact
	5.2	Nov 2019
ZoneDirector	10.2 or Before	No Impact
	10.3	Jul 2019
Unleashed	200.7 or Before	No Impact
	200.8	TBD
Cloud	18.04 or Before	No Impact

What is the impact on Ruckus ICX, Brocade FastIron and Turbolron switches that are part of Ruckus now?

No Ruckus ICX, Brocade FastIron and Turbolron switches are impacted.

What action do I take?

No immediate action is required.

Ruckus is actively investigating available hostapd security patches and other mitigations and would deploy these in software releases marked above. Ruckus is doing the due diligence to test the impact of these patches on our quality, performance and resiliency.

ID 20190412 FAQ**Revision History**

Version	ID	Change	Date
1.0	20190412	Initial Release	April 12, 2019

Ruckus Support can be contacted as follows:

The full contact list is at: <https://support.ruckuswireless.com/contact-us>

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