

Ruckus Networks - Security Advisory ID 20191224 FAQ

ZoneDirector and Unleashed Unauthenticated Remote Code Execution and Other Vulnerabilities – CVE-2019-19834, CVE-2019-19835, CVE-2019-19836, CVE-2019-19837, CVE-2019-19838, CVE-2019-19839, CVE-2019-19840, CVE-2019-19841, CVE-2019-19842, CVE-2019-19843

Initial Internal Release Date: **12/24/2019**

Initial Release to the Public: **12/24/2019**

Update Release Date: **01/06/2020**

What is the issue?

A number of security vulnerabilities are found on the ZoneDirector and Unleashed product lines. Collectively, these vulnerabilities allow an attacker to perform the following actions:

- Unauthenticated, remote code executions and unauthorized command line interface (CLI) and shell access
- Command injections
- Unauthenticated stack overflow
- Unauthenticated arbitrary file writing
- Server-Side Request Forgery (SSRF)

The following table provides a list of the CVE IDs and a high-level description of their vulnerabilities.

CVE ID	Description
CVE-2019-19834	Command injection vulnerability via a crafted CLI command with admin privilege
CVE-2019-19835	SSRF vulnerability in zap, caused by insufficient input validation
CVE-2019-19836	Remote code execution vulnerability in zap caused by insufficient input validation
CVE-2019-19837	Information disclosure vulnerability
CVE-2019-19838, CVE-2019-19839, CVE-2019-19841, CVE-2019-19842	Remote command injection via a crafted HTTP request, caused by insufficient input validation
CVE-2019-19840	Stack buffer overflow/remote code execution vulnerability via a crafted unauthenticated HTTP request
CVE-2019-19843	Access control vulnerability resulting in sensitive information disclosure

Ruckus Networks would like to recognize and thank Gal Zror of Aleph Research (Security Research by HCL Technologies) for finding and reporting these issues to us.



What action should I take?

Ruckus Networks is releasing the fix for these vulnerabilities through a software update. Because these are CRITICAL issues, all customers are strongly encouraged to apply the fix once available.

Customers with valid support contracts that entitle them to regular updates should download the fix through regular channels. Non contract customers may also obtain the described fixes by contacting Ruckus TAC through regular means as described <https://support.ruckuswireless.com/contact-us> and refer to this document to validate this entitlement

Are there any workarounds available?

There is no workaround that addresses these vulnerabilities.

What is the impact on Ruckus products?

The following table describes the vulnerable products, software versions, and the recommended actions.

Product	Vulnerable Release	Resolution	Patch Release Date
ZoneDirector	9.9 and before	Upgrade to 9.10.2.0.84 or newer (*)	N/A
	9.10.x	Upgrade to 9.10.2.0.84	Dec 24, 2019
	9.12.x	Upgrade to 9.12.3.0.136	Dec 12, 2019
	9.13.x, 10.0.x	Upgrade to 10.0.1.0.90	Dec 24, 2019
	10.0.x	Upgrade to 10.0.1.0.90	Dec 24, 2019
	10.1.x	Upgrade to 10.1.2.0.275	Oct 25, 2019
	10.2.x	Upgrade to 10.2.1.0.147	Nov 15, 2019
	10.3.x	Upgrade to 10.3.1.0.21	Dec 4, 2019
Unleashed	200.6 and before	Upgrade to 200.7.10.202.94	Dec 24, 2019
	200.7	Upgrade to 200.7.10.202.94	Dec 24, 2019

(*): Some EOL AP are not upgradable. Please contact Customer Support <https://support.ruckuswireless.com/contact-us> for details.

How does Ruckus qualify severity of security issues?

Ruckus Networks typically utilizes the Common Vulnerability Scoring System (CVSS) v3. This rating system is a vendor-agnostic, industry open standard designed to convey vulnerability severity and help determine urgency and priority of response. The following table provides a list of the CVE IDs, their CVSS scores, their vector information.

CVE ID	CVSS 3.0 Base Score	Vector
CVE-2019-19834	TBD	TBD
CVE-2019-19835	TBD	TBD
CVE-2019-19836	TBD	TBD
CVE-2019-19837	TBD	TBD
CVE-2019-19838	TBD	TBD
CVE-2019-19839	TBD	TBD
CVE-2019-19840	TBD	TBD
CVE-2019-19841	TBD	TBD
CVE-2019-19842	TBD	TBD

When will this Ruckus Security Advisory be publicly posted?

Ruckus Networks released the initial security advisory to Ruckus field teams on: 12/24/2019

Ruckus Networks released the initial security advisory to customers on: 12/24/2019

Public posting: 12/24/2019

Revision History

Version	ID	Change	Date
1.0	20191224	Initial Release	Dec 24, 2019
1.1	20191224	Updated acknowledgement, Support details.	Dec 26, 2019
1.2	20191224	Added non-supported release	Jan 6, 2020

Ruckus Support

The Ruckus Networks Customer Services & Support organization can be contacted via phone, chat, and through our web portal. Details at <https://support.ruckuswireless.com/contact-us>.

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