

Hiveforce Labs

THREAT ADVISORY

 **VULNERABILITY REPORT**

Multiple Command Injection Vulnerabilities Found in Cisco EPNM, ISE, and Prime Infrastructure

Date of Publication

April 07, 2023

Admiralty Code

A1

TA Number

TA2023173





Summary

First Seen: April 5, 2023

Affected Product: Cisco Evolved Programmable Network Manager (EPNM), Cisco Identity Services Engine (ISE), Cisco Prime Infrastructure

Impact: An attacker with authenticated, local access can exploit these vulnerabilities to escape the restricted shell and gain root privileges on the operating system.

CVEs

CVE	NAME	PATCH	CISA KEY
CVE-2023-20121	Cisco EPNM, Cisco ISE, and Cisco Prime Infrastructure Command Injection Vulnerability		
CVE-2023-20122	Cisco ISE Command Injection Vulnerability		

Vulnerability Details

Cisco has announced the discovery of multiple vulnerabilities in their Evolved Programmable Network Manager (EPNM), Identity Services Engine (ISE), and Prime Infrastructure software. These vulnerabilities are caused by an error in the validation of the parameters sent to a certain command within the restricted shell of these products. These vulnerabilities could allow an authenticated, local attacker to escape the restricted shell and gain root privileges on the underlying operating system. The vulnerabilities are not dependent on one another, and the exploitation of one is not required to exploit another. Cisco has released software updates to address these vulnerabilities, and there are no known workarounds.

Vulnerability

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2023-20121	Evolved Programmable Network (EPN) Manager: 7.0 Cisco Identity Services Engine (ISE): 3.2 Cisco Prime Infrastructure: 3.9 - 3.10	cpe:2.3:a:cisco_systems:evolved_programmable_network_manager:*.:*.*.*.*.*.*.*	CWE-77
CVE-2023-20122	Cisco Identity Services Engine (ISE): 3.2	cpe:2.3:a:cisco_systems:cisco_identity_services_engine:3.2.*.*.*.*.*.*.*	CWE-77

Recommendations



To mitigate these vulnerabilities, Cisco regularly releases patches and updates to its software, and it is crucial for organizations utilizing Cisco products to stay current with these releases and promptly apply any necessary updates to ensure the security of their systems.



Besides keeping software up to date, organizations can take proactive steps to decrease their vulnerability to potential attacks. These measures may include implementing network segmentation, restricting access to sensitive systems, and regularly monitoring network activity for any signs of suspicious or malevolent behavior.



Uni5 Users: This is an actionable threat advisory in HivePro Uni5. Prioritize the vulnerability, identify the impacted assets, and patch them through your Command Center. Test your controls with Uni5's Breach & Attack Simulation.

Potential MITRE ATT&CK TTPs

<u>TA0042</u> Resource Development	<u>TA0001</u> Initial Access	<u>TA0002</u> Execution	<u>TA0004</u> Privilege Escalation
<u>TA0040</u> Impact	<u>T1059</u> Command and Scripting Interpreter	<u>T1587</u> Develop Capabilities	<u>T1068</u> Exploitation for Privilege Escalation
<u>T1587.004</u> Exploits	<u>T1588</u> Obtain Capabilities	<u>T1588.006</u> Vulnerabilities	

Patch Link

https://sec.cloudapps.cisco.com/security/center/resources/security_vulnerability_policy.html#ssu

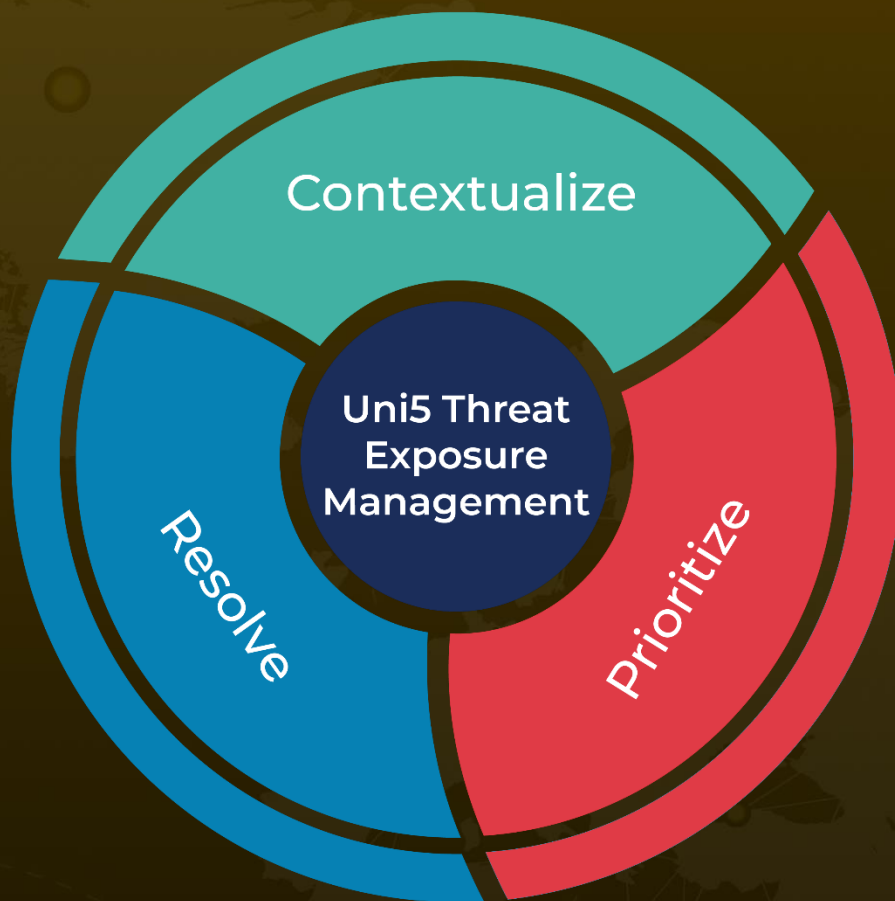
References

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-adeos-MLAyEcvk>

What Next?

At Hive Pro, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

Book a free demo with HivePro Uni5: Threat Exposure Management Platform.



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