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Cisco Catalyst SD-WAN Vulnerabilities



Advisory ID:
cisco-sa-sdwan-authbp-qwCX8D4v

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Version 1.3: [Final](#)

Workarounds: No workarounds available

Cisco Bug IDs:
[CSCws33583](#), [CSCws33584](#), [CSCws33585](#), [More...](#)

CVE-2026-20122

CVE-2026-20126

CVE-2026-20128

[More...](#)

CWE-200

CWE-257

CWE-287

[More...](#)

CVSS Score:
[Base 9.8](#) 

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Summary

Multiple vulnerabilities in Cisco Catalyst SD-WAN Manager, formerly SD-WAN vManage, could allow an attacker to access an affected system, elevate privileges to *root*, gain access to sensitive information, and overwrite arbitrary files.

For more information about these vulnerabilities, see the [Details](#) section of this advisory.

Cisco has released software updates that address these vulnerabilities. There are no workarounds that address these vulnerabilities.

Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

This advisory is available at the following link:

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-sdwan-authbp-qwCX8D4v>

Affected Products

Vulnerable Products

These vulnerabilities affect Cisco Catalyst SD-WAN Manager, regardless of device configuration.

For information about which Cisco software releases are vulnerable, see the [Fixed Software](#) section of this advisory.

Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

Products Confirmed Not Vulnerable

Only products listed in the [Vulnerable Products](#) section of this advisory are known to be affected by these vulnerabilities.

Cisco has confirmed that Cisco Catalyst SD-WAN Manager releases 20.18 and later are not affected by the vulnerabilities that are described in CVE-2026-20128 and CVE-2026-20129.

Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

Details

These vulnerabilities are not dependent on one another. Exploitation of one of the vulnerabilities does not require exploitation of another vulnerability.

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Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

Details about the vulnerabilities are as follows:

CVE-2026-20129: Cisco Catalyst SD-WAN Manager Authentication Bypass Vulnerability

A vulnerability in the API user authentication of Cisco Catalyst SD-WAN Manager could allow an unauthenticated, remote attacker to gain access to an affected system as a user who has the *netadmin* role.

The vulnerability is due to improper authentication for requests that are sent to the API. An attacker could exploit this vulnerability by sending a crafted request to the API of an affected system. A successful exploit could allow the attacker to execute commands with the privileges of the *netadmin* role.

Note: Cisco Catalyst SD-WAN Manager releases 20.18 and later are not affected by this vulnerability.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.

Bug ID(s): [CSCws33587](#)

CVE ID: CVE-2026-20129

Security Impact Rating (SIR): Critical

CVSS Base Score: 9.8

CVSS Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CVE-2026-20126: Cisco Catalyst SD-WAN Manager Privilege Escalation Vulnerability

A vulnerability in Cisco Catalyst SD-WAN Manager could allow an authenticated, local attacker with low privileges to gain *root* privileges on the underlying operating system.

This vulnerability is due to an insufficient user authentication mechanism in the REST API. An attacker could exploit this vulnerability by sending a request to the REST API of the affected system. A successful exploit could allow the attacker to gain *root* privileges on the underlying operating system.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.

Bug ID(s): [CSCws93470](#)

CVE ID: CVE-2026-20126

Security Impact Rating (SIR): High

CVSS Base Score: 7.8

CVSS Vector: CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/I:H/A:H

CVE-2026-20133: Cisco Catalyst SD-WAN Manager Information Disclosure Vulnerability

A vulnerability in Cisco Catalyst SD-WAN Manager could allow an unauthenticated, remote attacker to view sensitive information on an affected system.

This vulnerability is due to insufficient file system access restrictions. An attacker could exploit this vulnerability by accessing the API of an affected system. A successful exploit could allow the attacker to read sensitive information on the underlying operating system.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.

Bug ID(s): [CSCws33583](#)

CVE ID: CVE-2026-20133

Security Impact Rating (SIR): High

CVSS Base Score: 7.5

CVSS Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

CVE-2026-20122: Cisco Catalyst SD-WAN Manager Arbitrary File Overwrite Vulnerability

A vulnerability in the API of Cisco Catalyst SD-WAN Manager could allow an authenticated, remote attacker to overwrite arbitrary files on the local file system. To exploit this vulnerability, the attacker must have valid *read-only* credentials with API access on the affected system.

This vulnerability is due to improper file handling on the API interface of an affected system. An attacker could exploit this vulnerability by uploading a malicious file on the local file system. A successful exploit could allow the attacker to overwrite arbitrary files on the affected system and gain *vmanage* user privileges.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.



Bug ID(s): [CSCws33584](#), [CSCws33586](#)

CVE ID: CVE-2026-20122

Security Impact Rating (SIR): High

CVSS Base Score: 7.1

CVSS Vector: CVSS:3.1/AV:N/AC:L/PR:L/UI:N/S:U/C:N/I:H/A:L

CVE-2026-20128: Cisco Catalyst SD-WAN Manager Information Disclosure Vulnerability

A vulnerability in the Data Collection Agent (DCA) feature of Cisco Catalyst SD-WAN Manager could allow an unauthenticated, remote attacker to gain DCA user privileges on an affected system.

This vulnerability is due to the presence of a credential file for the DCA user on an affected system. An attacker could exploit this vulnerability by sending a crafted HTTP request and reading the file that contains the DCA password from that affected system. A successful exploit could allow the attacker to access another affected system and gain DCA user privileges.

Note: Cisco Catalyst SD-WAN Manager releases 20.18 and later are not affected by this vulnerability.

Cisco has released software updates that address this vulnerability. There are no workarounds that address this vulnerability.

Bug ID(s): [CSCws33585](#)

CVE ID: CVE-2026-20128

Security Impact Rating (SIR): High

CVSS Base Score: 7.5

CVSS Vector: CVSS:3.1/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:N/A:N

^ Indicators of Compromise

Indicators of compromise for the exploitation of CVE-2026-20128 and CVE-2026-20122 are as follows.

CVE-2026-20128: Cisco Catalyst SD-WAN Manager Information Disclosure Vulnerability

Customers are encouraged to examine log entries in the file `/var/log/nms/containers/service-proxy/serviceproxy-access.log` on a Cisco Catalyst SD-WAN Manager for references to `/reports/data/opt/data/containers/config/data-collection-agent/.dca`. Legitimate use of this API occurs when administering the DCA and would coincide with this activity. In such a case, the corresponding IP address would be that of the laptop of the administrator.

To identify indicators of compromise and remove false positives, search the file `/var/log/nms/containers/service-proxy/serviceproxy-access.log` for log entries such as the following:

```
[2026-03-04T18:14:16.057Z] "GET /reports/data/opt/data/containers/config/data-collection-agent/.dca HTTP/1.1"
200 - 0 32 4 - "172.16.1.1" "python-requests/2.31.0" "7e77bfbc-7224-43e0-9115-cadf13d2fefa" "172.16.0.1"
"127.0.0.1:8080"
```

Compare the log time and source IP (in this example, 172.16.1.1) against known administrator activity to exclude false positives.

CVE-2026-20122: Cisco Catalyst SD-WAN Manager Arbitrary File Overwrite Vulnerability

Examine log entries in the file `/var/log/nms/containers/service-proxy/serviceproxy-access.log` on a Cisco Catalyst SD-WAN Manager for references to `/dataservice/smartLicensing/uploadAck`. Legitimate use of this API occurs when updating licensing information and would coincide with this activity. In such a case, the corresponding IP address would be that of the laptop of the administrator.

To identify indicators of compromise and remove false positives, search the file `/var/log/nms/containers/service-proxy/serviceproxy-access.log` for log entries such as the following:

```
[2026-03-05T14:28:05.106Z] "POST /dataservice/smartLicensing/uploadAck HTTP/1.1" 0 DC 1036 0 10010 -
"10.10.10.23"
```

Compare the log time and source IP (in this example, 10.10.10.23) against known administrator activity to exclude false positives.

If customers see the following POST log example, they should also check the `vmanage-server.log` file for specific filenames being downloaded:

```
[2026-03-05T14:28:05.106Z] "POST /dataservice/smartLicensing/uploadAck HTTP/1.1" 0 DC 1036 0 10010 -
"10.10.10.23"
```

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The following list includes example logs for filenames. Flag them if the file is suspicious.

```

/var/log/nms/vmanage-server.log-03-06-2026-1.gz:06-Mar-2026 02:16:34,029 UTC INFO [285fcdc0-30fa-4ca0-8e06-6953a095a59a] [LAB-TEST-1] [SmartLicensingManager] (default task-11229) |57501bad-32a7-4f52-8f54-8547dcd7403e|
Time taken to write file ../../../../../../../../../../../../../../var/lib/wildfly/standalone/deployments/cmd.gz.war = 2
ms to directory /opt/data/app-server/software/package/license/ack
/var/log/nms/vmanage-server.log-03-06-2026-1.gz:06-Mar-2026 02:16:34,029 UTC INFO [285fcdc0-30fa-4ca0-8e06-6953a095a59a] [LAB-TEST-1] [SmartLicensingManager] (default task-11229) |57501bad-32a7-4f52-8f54-8547dcd7403e|
../../../../../../../../../../../../../../../../var/lib/wildfly/standalone/deployments/cmd.gz.war is processing in rpc call
/var/log/nms/vmanage-server.log-03-06-2026-1.gz:06-Mar-2026 02:16:34,094 UTC INFO [] [sd-wan-manager-0]
[SmartLicensingManager] (pool-187-thread-1) || stringUrl
https://10.0.6.144:8443/software/package/license/ack/../../../../../../../../../../../../../../../../var/lib/wildfly/standalone/deployments/cmd.gz.war filePath
../../../../../../../../../../../../../../../../var/lib/wildfly/standalone/deployments/cmd.gz.war
/var/log/nms/vmanage-server.log-03-06-2026-1.gz:06-Mar-2026 02:16:34,106 UTC ERROR [] [sd-wan-manager-0]
[SmartLicensingManager] (pool-187-thread-1) || Failed to download the file
../../../../../../../../../../../../../../../../var/lib/wildfly/standalone/deployments/cmd.gz.war

```

Note: The filename shown here is an example. The actual log entry may contain a different filename.

Customers are also encouraged to check for the presence of file `/cmd.gz/cmd.jsp`. Examine log entries in the file `/var/log/nms/containers/service-proxy/serviceproxy-access.log` on a Cisco Catalyst SD-WAN Manager for references to `/cmd.gz/cmd.jsp`. This is an endpoint that does not exist on a clean Cisco Catalyst SD-WAN Manager but is added by the published proof of concept. Any use of this endpoint is an indicator of compromise, as shown in the following example log:

```

[2026-03-05T14:54:01.541Z] "POST /cmd.gz/cmd.jsp HTTP/1.1" 200 - 6 63 7 - "172.16.1.1" "python-requests/2.31.0"
"7221a300-088a-4a44-84a1-b8388a8ee19e" "172.16.0.1" "127.0.0.1:8080"

```

Note: The filename shown here is an example. The actual log entry may contain a different filename.

^ Workarounds

There are no workarounds that address these vulnerabilities. Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

^ Fixed Software

Cisco considers any workarounds and mitigations (if applicable) to be temporary solutions until an upgrade to a fixed software release is available. To fully remediate these vulnerabilities and avoid future exposure as described in this advisory, Cisco strongly recommends that customers upgrade to the fixed software indicated in this advisory.

Fixed Releases

In the following tables, the left column lists Cisco software releases. The right column indicates whether a release is affected by the vulnerabilities that are described in this advisory and the first release that includes the fix for these vulnerabilities. Customers are advised to upgrade to an appropriate [fixed software release](#) as indicated in this section.

Cisco Catalyst SD-WAN Manager Release	First Fixed Release
Earlier than 20.9	Migrate to a fixed release.
20.9	20.9.8.2
20.10	20.12.6.1
20.11	20.12.6.1
20.12	20.12.5.3 20.12.6.1
20.13	20.15.4.2
20.14	20.15.4.2
20.15	20.15.4.2
20.16	20.18.2.1
20.18	20.18.2.1

1. These releases have reached [End of Software Maintenance](#). Cisco strongly encourages customers to upgrade to a [supported release](#).

The Cisco Product Security Incident Response Team (PSIRT) validates only the affected software versions mentioned in this advisory.

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Additional Information

- To check component and software release compatibility, see the [SD-WAN Controller Component Compatibility Matrix](#).
- For help planning an upgrade, see the [Cisco Catalyst SD-WAN Upgrade Matrix](#).
- For additional remediation assistance, see [Remediate Catalyst SD-WAN Security Advisory - February 2026](#).
- For additional assistance with requesting the admin-tech bundle for TAC support, see [Collect an Admin-Tech in SD-WAN Environment and Upload to TAC Case](#).
- For additional remediation assistance, see [Rebuild Your Catalyst SD-WAN Fabric](#).

^ Recommendations

Cisco recommends upgrading the affected systems to a fixed software release.

General Recommendations for Hardening

- Prevent access from unsecured networks, such as the internet, to the system. If internet access to the system is required, restrict system access to only known, trusted hosts on ports/protocols that are included in the user guides.
- Protect Cisco Catalyst SD-WAN Control Components behind a filtering device such as a firewall, and filter traffic to and from the systems while allowing only known, trusted hosts to send traffic to the systems. Using a two-layer firewall can provide flexibility in network planning so that end users do not connect directly to the outer DMZ. See the [Deployment sections of the User Guides for Cisco Catalyst SD-WAN software](#).
- Regularly monitor log traffic for any unexpected traffic to and from systems. Logging should be sent to an external server, if possible, and kept for a long enough duration so that post-event investigations can be performed with sufficient log data.
- Disable HTTP for the Cisco Catalyst SD-WAN Manager web UI administrator portal.
- Disable any network services that are not required, including HTTP and FTP. For more information about specific service functionality, see the Cisco Catalyst SD-WAN user guides.
- Upgrade the system to the latest version of Cisco Catalyst SD-WAN Software.
- Change the default administrator password to a more secure variant. Restrict access to the administrator account by creating user accounts based on necessary access requirements. In addition, create operator accounts for all administrators.
- Use SSL/TLS, obtain an SSL certificate from a certificate authority (CA), or create a self-signed certificate.

For more information, review the [Cisco Catalyst SD-WAN Hardening Guide](#).

^ Exploitation and Public Announcements

The Cisco PSIRT is not aware of any public announcements or malicious use of the vulnerabilities that are described in CVE-2026-20126 and CVE-2026-20129.

In March 2026, the Cisco PSIRT became aware of active exploitation of the vulnerabilities that are described in CVE-2026-20128 and CVE-2026-20122 only. The vulnerabilities that are described in the other CVEs in this advisory are not known to have been compromised. Cisco strongly recommends that customers upgrade to a fixed software release to remediate these vulnerabilities.

In April 2026, the Cisco PSIRT became aware of active exploitation of the vulnerability that is described in CVE-2026-20133. Cisco strongly recommends that customers upgrade to a fixed software release to remediate these vulnerabilities.

^ Source

These vulnerabilities were found during internal security testing by Arthur Vidineyev of the Cisco Advanced Security Initiatives Group (ASIG).

^ URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-sdwan-authbp-qwCX8D4v>

^ Revision History

Version	Description	Section	Status	Date
1.3	Added information about active exploitation of CVE-2026-20133.	Exploitation and Public Announcements	Final	2026-APR-22
1.2	Updated the Details section for CVE-2026-20128. Added indicators of compromise for CVE-2026-20128 and CVE-2026-20122. Added Release 20.10 to fixed release table.	Details, Indicators of Compromise, Fixed Releases	Final	2026-MAR-18

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Customers who purchase directly from Cisco but do not hold a Cisco service contract and customers who make purchases through third-party vendors but are unsuccessful in obtaining fixed software through their point of sale should obtain upgrades by contacting the [Cisco Technical Assistance Center \(TAC\)](#). Customers should have the product serial number available and be prepared to provide the URL of this advisory as evidence of entitlement to a free upgrade.

When [considering software upgrades](#), customers are advised to regularly consult [the advisories](#) for the relevant Cisco products to determine exposure and a complete upgrade solution. In all cases, customers should ensure that the devices to be upgraded contain sufficient memory and confirm that current hardware and software configurations will continue to be supported properly by the new release. If the information is not clear, customers are advised to contact the [Cisco Technical Assistance Center \(TAC\)](#) or their contracted maintenance providers.

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