

Cisco Security Advisory: CiscoWorks TFTP Directory Traversal Vulnerability

Advisory ID: cisco-sa-20090520-cw

<http://www.cisco.com/warp/public/707/cisco-sa-20090520-cw.shtml>

Revision 1.0

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Summary

CiscoWorks Common Services contains a vulnerability that could allow an unauthenticated remote attacker to access application and host operating system files.

Cisco has released free software updates that address this vulnerability. A workaround that mitigates this vulnerability is available.

This advisory is posted at <http://www.cisco.com/warp/public/707/cisco-sa-20090520-cw.shtml>.

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☐ Affected Products

☐ Vulnerable Products

Products that have TFTP services enabled and that run CiscoWorks Common Services versions 3.0.x, 3.1.x, and 3.2.x are vulnerable. Only CiscoWorks Common Services systems running on Microsoft Windows operating systems are affected.

The following Cisco products that use CiscoWorks Common Services as their base are affected by this vulnerability.

- Cisco Unified Service Monitor versions 1.0, 1.1, 2.0, and 2.1
- CiscoWorks QoS Policy Manager versions 4.0 and 4.1
- CiscoWorks LAN Management Solution versions 2.5, 2.6, 3.0, 3.0.1 and 3.1
- Cisco Security Manager versions 3.0, 3.1, and 3.2
- Cisco TelePresence Readiness Assessment Manager version 1.0
- CiscoWorks Voice Manager versions 3.0 and 3.1
- CiscoWorks Health and Utilization Monitor versions 1.0 and 1.1
- Cisco Unified Operations Manager versions 1.0, 1.1, 2.0, and 2.1

The Solaris version of CiscoWorks Common Services is not affected by this vulnerability.

The TFTP service is enabled by default. To verify that the TFTP service is running connect to the CiscoWorks interface and choose **Start > Settings > Control Panel > Administrative Tools > Services** to access the **Services** window. The name of the service is **CWCS tftp service**.

Note: Administrators can also issue the **tasklist/svc** Microsoft Windows command to list the services that are running on the system.

☐ Products Confirmed Not Vulnerable

Products that do not use CiscoWorks Common Services versions 3.0.x, 3.1.x, and 3.2.x or that do not have TFTP services enabled are not vulnerable. The Solaris version of CiscoWorks Common Services is not affected by this vulnerability. No other Cisco products are currently known to be affected by this vulnerability.

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☐ Details

CiscoWorks Common Services represents a common set of management services that is shared by CiscoWorks applications. CiscoWorks is a family of products based on Internet standards for managing networks and devices. Many CiscoWorks products use and depend on Common Services.

CiscoWorks Common Services contains a TFTP directory traversal vulnerability that could allow an unauthenticated remote attacker to access application and host operating system files.

Note: Only CiscoWorks Common Services systems that run on Microsoft Windows operating systems are vulnerable. The Solaris version of CiscoWorks Common Services is not affected by this vulnerability.

This vulnerability is documented in Cisco Bug ID [CSCsx07107](#) ([registered](#) customers only) and has been assigned Common Vulnerabilities and Exposures (CVE) identifiers CVE-2009-1161.

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☐ Vulnerability Scoring Details

Cisco has provided scores for the vulnerability in this advisory based on the Common Vulnerability Scoring System (CVSS). The CVSS scoring in this Security Advisory is done in accordance with CVSS version 2.0.

CVSS is a standards-based scoring method that conveys vulnerability severity and helps determine urgency and priority of response.

Cisco has provided a base and temporal score. Customers can then compute environmental scores to assist in determining the impact of the vulnerability in individual networks.

Cisco has provided an FAQ to answer additional questions regarding CVSS at

<http://www.cisco.com/web/about/security/intelligence/cvss-qandas.html>.

Cisco has also provided a CVSS calculator to help compute the environmental impact for individual networks at

<http://intellishield.cisco.com/security/alertmanager/cvss>.

CSCsx07107 - CSM: TFTP service allows directory traversal					
Calculate the environmental score of CSCsx07107					
CVSS Base Score - 10					
Access Vector	Access Complexity	Authentication	Confidentiality Impact	Integrity Impact	Availability Impact
Network	Low	None	Complete	Complete	Complete
CVSS Temporal Score - 8.7					
Exploitability		Remediation Level		Report Confidence	
High		Official-Fix		Confirmed	

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☐ Impact

A successful exploitation of this vulnerability may allow an attacker unauthorized access to view or modify application and host operating system files. Modification of some system files could result in a denial of service condition.

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☐ Software Versions and Fixes

Cisco has released free software updates that address this vulnerability. Prior to deploying software, customers should consult their maintenance provider or check the software for feature set compatibility and known issues specific to their environment.

This vulnerability has been corrected in the following CiscoWorks Common Services software patch:

cwcs3.x-win-CSCsx07107-0.zip

The CiscoWorks Common Services patch can be downloaded from the following link:

<http://www.cisco.com/pcgi-bin/tablebuild.pl/cw2000-cd-one>

When considering software upgrades, also consult <http://www.cisco.com/go/psirt> and any subsequent advisories to determine exposure and a complete upgrade solution.

In all cases, customers should exercise caution to be certain the devices to be upgraded contain sufficient memory and that current hardware and software configurations will continue to be supported properly by the new release. If the information is not clear, contact the Cisco Technical Assistance Center (TAC) or your contracted maintenance provider for assistance.

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☐ Workarounds

To mitigate this vulnerability, administrators can disable TFTP services by completing the following steps:

Step 1. Choose **Start > Settings > Control Panel > Administrative Tools > Services** to access the Services window.

Step 2. Right-click **CWCS tftp service** and select **Properties**.

Step 3. Set the **Startup Type** to **Disabled**.

Step 4. Click the **Stop** button to stop the TFTP service.

Note: Disabling TFTP services may impact the functionality of some of the CiscoWorks

components.

Additional mitigations that can be deployed on Cisco devices within the network are available in the Cisco Applied Mitigation Bulletin companion document for this advisory, which is available at the following link:

<http://www.cisco.com/warp/public/707/cisco-amb-20090520-cw.shtml>.

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☐ **Obtaining Fixed Software**

Cisco has released free software updates that address this vulnerability. Prior to deploying software, customers should consult their maintenance provider or check the software for feature set compatibility and known issues specific to their environment.

Customers may only install and expect support for the feature sets they have purchased. By installing, downloading, accessing or otherwise using such software upgrades, customers agree to be bound by the terms of Cisco's software license terms found at http://www.cisco.com/en/US/docs/general/warranty/English/EU1KEN_.html, or as otherwise set forth at Cisco.com Downloads at <http://www.cisco.com/public/sw-center/sw-usingswc.shtml>.

Do not contact psirt@cisco.com or security-alert@cisco.com for software upgrades.

☐ **Customers with Service Contracts**

Customers with contracts should obtain upgraded software through their regular update channels. For most customers, this means that upgrades should be obtained through the Software Center on Cisco's worldwide website at <http://www.cisco.com>.

☐ **Customers using Third Party Support Organizations**

Customers whose Cisco products are provided or maintained through prior or existing agreements with third-party support organizations, such as Cisco Partners, authorized resellers, or service providers should contact that support organization for guidance and assistance with the appropriate course of action in regards to this advisory.

The effectiveness of any workaround or fix is dependent on specific customer situations, such as product mix, network topology, traffic behavior, and organizational mission. Due to the variety of affected products and releases, customers should consult with their service provider or support organization to ensure any applied workaround or fix is the most appropriate for use in the intended network before it is deployed.

☐ **Customers without Service Contracts**

Customers who purchase direct from Cisco but do not hold a Cisco service contract, and customers who purchase through third-party vendors but are unsuccessful in obtaining fixed software through their point of sale should acquire upgrades by contacting the Cisco Technical Assistance Center (TAC). TAC contacts are as follows.

- +1 800 553 2447 (toll free from within North America)
- +1 408 526 7209 (toll call from anywhere in the world)
- e-mail: tac@cisco.com

Customers should have their product serial number available and be prepared to give the URL of this notice as evidence of entitlement to a free upgrade. Free upgrades for non-contract customers must be requested through the TAC.

Refer to http://www.cisco.com/en/US/support/tsd_cisco_worldwide_contacts.html for additional TAC contact information, including localized telephone numbers, and instructions and e-mail addresses for use in various languages.

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☐ **Exploitation and Public Announcements**

The Cisco PSIRT is not aware of any public announcements or malicious use of the vulnerability described in this advisory.

This vulnerability was found during the resolution of customer service requests.

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☐ **Status of this Notice: FINAL**

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This advisory is posted on Cisco's worldwide website at :

<http://www.cisco.com/warp/public/707/cisco-sa-20090520-cw.shtml>

In addition to worldwide web posting, a text version of this notice is clear-signed with the Cisco PSIRT PGP key and is posted to the following e-mail and Usenet news recipients.

- cust-security-announce@cisco.com

- first-bulletins@lists.first.org
- bugtraq@securityfocus.com
- vulnwatch@vulnwatch.org
- cisco@spot.colorado.edu
- cisco-nsp@puck.nether.net
- full-disclosure@lists.grok.org.uk
- comp.dcom.sys.cisco@newsgate.cisco.com

Future updates of this advisory, if any, will be placed on Cisco's worldwide website, but may or may not be actively announced on mailing lists or newsgroups. Users concerned about this problem are encouraged to check the above URL for any updates.

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☐ Revision History

Revision 1.0	2009-May-20	Initial public release
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☐ Cisco Security Procedures

Complete information on reporting security vulnerabilities in Cisco products, obtaining assistance with security incidents, and registering to receive security information from Cisco, is available on Cisco's worldwide website at http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html. This includes instructions for press inquiries regarding Cisco security notices. All Cisco security advisories are available at <http://www.cisco.com/go/psirt>.

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Just browsing



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(256 character limit)



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