



Security Advisory SWRX-2013-001

Cisco NAC Appliance (Cisco Clean Access / Perfigo) authentication cross-site scripting (XSS)

Dell SecureWorks Counter Threat Unit™ Threat Intelligence

Advisory Information

Title: Cisco NAC Appliance (Cisco Clean Access / Perfigo) authentication cross-site scripting (XSS)

Advisory ID: SWRX-2013-001

Advisory URL: <http://www.secureworks.com/cyber-threat-intelligence/advisories/SWRX-2013-001/>

Date published: Wednesday, January 30, 2013

CVE: CVE-2012-6029

CVSS v2 base score: 4.3

Date of last update: Wednesday, January 30, 2013

Vendors contacted: Cisco Systems, Inc.

Release mode: Coordinated

Discovered by: Craig Lambert, Dell SecureWorks

Summary

The Cisco NAC Appliance (formerly, Cisco Clean Access) "enforces security policy compliance on all devices that attempt to gain access" to organizations' infrastructure. A common application of Cisco NAC is to "provide easy and secure guest access."

A vulnerability exists in the web-based authentication functions of Cisco NAC Appliance versions up to and including 4.9.2. The vulnerability involves insufficient input validation of URL parameters. Successful exploitation may allow an attacker to retrieve session cookies, steal recently submitted data, or launch additional attacks.

Affected products

This vulnerability affects supported versions of the Cisco NAC Appliance up to and including 4.9.2.

Vendor information, solutions and workarounds

Cisco has released information in

<http://tools.cisco.com/security/center/content/CiscoSecurityNotice/CVE-2012-6029>

The vulnerability will be addressed in versions 4.8.4 and 4.9.3.

Details

A vulnerability exists in Cisco NAC Appliance (Cisco Clean Access) versions up to and including 4.9.2 due to insufficient input validation affecting the web authentication functions "perfigo_weblogin.jsp" and "perfigo_cm_validate.jsp". User-controllable input supplied to perfigo_weblogin.jsp ("cm" or "uri" parameters) and perfigo_cm_validate.jsp ("cm", "provider", "session", "uri", "userip" or "username" parameters) is not properly sanitized for illegal or malicious data prior to being returned to the user in dynamically generated web content. Remote attackers could leverage this issue to conduct reflected cross-site scripting (XSS) attacks via specially crafted requests. When loaded, arbitrary script or HTML

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```
-->
</script>
</head>

<body onLoad="javascript:load();">

  <div align="center" class="title">

    Guest Access Authentication
  </div>

  <form method="post" name="loginform" action=" ../auth/perfigo_cm_validate.jsp" target="_parent">
    <div align="center">
      <input type="hidden" name="reqFrom" value="perfigo_tiny_login.jsp"/>
      <input type="hidden" name="uri" value="http://news.bbc.co.uk/" />
      <input type="hidden" name="cm" value="vs32vklndd8ac"><script>alert(1)</script>5e517455617 />
      <input type="hidden" name="userid" value="192.168.66.74"/>
      <input type="hidden" name="session" value="" />
      <input type="hidden" name="pm" />
      <input type="hidden" name="index" value="0" />
      <input type="hidden" name="pageid" value="-1" />
      <input type="hidden" name="compact" value="true" />

      <input type="hidden" name="registerGuest" value="NO"/>
      <input type="hidden" name="userNameLabel" value="Email address"/>
      <input type="hidden" name="passwordLabel" value="Password"/>
      <input type="hidden" name="guestUserNameLabel" value="Guest ID"/>
      <input type="hidden" name="guestPasswordLabel" value="Password"/>
    </div>
  </form>

```

Figure 2. Screenshot of proof-of-concept injected JavaScript. (Source: Dell SecureWorks)

Revision history

1.0 2013-01-30: Initial advisory release

PGP keys

This advisory has been signed with the Dell SecureWorks Counter Threat Unit PGP key, which is available for download at <http://www.secureworks.com/contact/SecureWorksCTU.asc>.

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