

<b>CASE ID</b>	CM-2014-01	<b>AFFECTED PRODUCT</b>	Aruba ClearPass Policy Manager
<b>FOUND</b>	2014-11-24	<b>VULNERABILITY TYPE</b>	Stored cross-site script
<b>AUTHOR</b>	Cristiano Maruti	<b>SEVERITY</b>	Medium

## ISSUE DETAILS

The Aruba ClearPass Policy Manager™ platform provides role- and device-based network access control for employees, contractors and guests across any wired, wireless and VPN infrastructure. The analysis discovered a stored cross site scripting vulnerability (OWASP OTG-INPVAL-002) in the ClearPass Policy Manager. A malicious unauthenticated user is able to inject arbitrary script through the login form that may be rendered and triggered later if a privileged authenticated user reviews the access audit record. An attacker can use the aforementioned vulnerability to effectively steal session cookies of privileged logged on users.

## AFFECTED VERSIONS

The following version of the Aruba ClearPass Policy Manager was affected by the vulnerability; previous versions may be vulnerable as well:

- Aruba ClearPass Policy Manager (all versions)

## REPLICATION STEPS

It is possible to reproduce the vulnerability following these steps:

1. Open the login page with your browser;
2. Put the "<img src=x onerror=alert(1337)><" string in the username field and fill in the password field with a value of your choice;
3. Submit the form;
4. Login to the application with an administrative user;
5. Go to "Monitoring → Live monitoring → Access tracker" to raise the payload.

## DISCLOSURE TIMELINE

Below the vendor contact timeline.

Date	Event
2014-11-24	Vulnerability submitted to vendor through the Bugcrowd bounty program.
2014-12-09	Vendor acknowledged the problem.
2014-12-10	Researcher requested to publicly disclose the issue.
2015-02-16	Vendor released a fix for the reported issue.
2015-02-09	Vendor asked to hold-on for the public disclosure.
2015-02-22	Vendor postponed the public disclosure date
2015-02-22	Public coordinated disclosure.

## TECHNICAL DETAILS

Below a full transcript of the HTTP request used to raise the vulnerability

HTTP Request
<pre> POST /tips/tipsLoginSubmit.action HTTP/1.1 Host: 10.0.0.1 User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:33.0) Gecko/20100101 Firefox/33.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: it-IT,it;q=0.8,en-US;q=0.5,en;q=0.3 Accept-Encoding: gzip, deflate Referer: https://10.0.0.1/tips/tipsLoginSubmit.action Cookie: tree_node_0SaveStateCookie=undefined; tree_node_1SaveStateCookie=undefined%2Cmenu_3_3_1; tree_node_2SaveStateCookie=undefined%2Cmenu_5_5_5%2Cmenu_5_5_7%2Cmenu_5_5_9%2Cmenu_5_5_11 %2Cmenu_5_5_13; DWRSESSIONID=ySApozMh7cdQdTOjhYi4gwoyDk; JSESSIONID=B83EE42AAAC5D4070C107F4A8B52277C Connection: close Content-Type: application/x-www-form-urlencoded Content-Length: 58  username="&gt;&lt;img src=x onerror=alert("0wn3d")&gt;&lt;"&amp;password=test </pre>

## VENDOR SOLUTION

Aruba released an update to fix the vulnerability (ClearPass 6.5 or later). Please see the below link for further information released by the vendor:

- <http://www.arubanetworks.com/assets/alert/ARUBA-PSA-2015-006.txt>

## VULNERABILITY REFERENCE

The following CVE ID was allocated to track the vulnerabilities:

Pre-allocated CVE	Description
CVE-2015-1389	Stored cross-site scripting (XSS)

## ABOUT

Vulnerability was independently discovered by Cristiano Maruti (@cmaruti) while participating to the Aruba bounty program managed by Bugcrowd (<http://bugcrowd.com>).

