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**DATE(S) ISSUED:**

4/09/2015

**SUBJECT:**

Multiple Vulnerabilities in Cisco ASA Software

**OVERVIEW:**

Multiple vulnerabilities have been discovered in Cisco Adaptive Security Appliance (ASA) Software. The Cisco ASA family provides network security services such as firewall, intrusion prevention system (IPS), endpoint security (anti-x), and VPN.

The exploitation of these vulnerabilities could allow for complete system compromise on the device or may cause denial of service conditions.

**THREAT INTELLIGENCE**

There are currently no reports of these vulnerabilities being exploited in the wild.

**SYSTEM AFFECTED:**

- Versions prior to Cisco Adaptive Security Appliance 9.2(3.3)
- Versions prior to Cisco Adaptive Security Appliance (ASA) Software 9.1(6)
- Versions prior to Cisco Adaptive Security Appliance (ASA) Software 9.3(3)
- Versions prior to Cisco ASA FirePOWER Software 5.3.1.2
- Versions prior to Cisco ASA CX Software 9.3.2.1-9

**RISK:**

**Government:**

- Large and medium government entities: **High**
- Small government entities: **High**

**Businesses:**

- Large and medium business entities: **High**
- Small business entities: **High**

**Home users: Low**

**TECHNICAL SUMMARY:**

Cisco ASA Software is prone to multiple vulnerabilities that could allow for complete system compromise or denial of service. These vulnerabilities are as follows:

**Cisco ASA Software is prone to the following vulnerabilities:**

- A vulnerability in the improper handling of secured failover communication messages when the failover IPsec feature is configured that may allow an unauthenticated, remote attacker to cause a complete system compromise. (CVE 2015-0675)
- A vulnerability in the improper processing of DNS packets that may allow an unauthenticated, remote attacker the ability to cause denial-of-service conditions. (CVE 2015-0676)
- A vulnerability in the insufficient hardening of the XML parser configuration that may allow an unauthenticated, remote attacker the ability to cause denial of service conditions. (CVE 2015-0677)

**Cisco ASA FirePOWER Services and Cisco ASA CX Services are prone to the following vulnerability:**

- A vulnerability in the improper handling of crafted packets sent at a high rate to the management interface that may allow an unauthenticated, remote attacker the ability to cause denial-of-service conditions. (CVE 2015-0678)

**RECOMMENDATIONS:**

The following actions should be taken:

- Apply software updates provided by Cisco, and workarounds that mitigate these vulnerabilities immediately after appropriate testing.

**REFERENCES:**

**Cisco:**

<http://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20150408-asa>  
<http://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-20150408-cxfs>  
<http://tools.cisco.com/security/center/viewAlert.x?alertId=38183>  
<http://tools.cisco.com/security/center/viewAlert.x?alertId=38184>  
<http://tools.cisco.com/security/center/viewAlert.x?alertId=38185>  
<http://tools.cisco.com/security/center/viewAlert.x?alertId=38186>

**CVE:**

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0675>  
<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0676>  
<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0677>  
<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0678>

**Security Focus:**

<http://www.securityfocus.com/bid/73966>  
<http://www.securityfocus.com/bid/73967>  
<http://www.securityfocus.com/bid/73968>  
<http://www.securityfocus.com/bid/73969>

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