



**State of Alaska Cyber Security &  
Critical Infrastructure  
Cyber Advisory**

**March 11, 2014**

*The following cyber advisory was issued by the State of Alaska and was intended for State government entities. The information may or may not be applicable to the general public and accordingly, the State does not warrant its use for any specific purposes.*

**ADVISORY NUMBER:**

SA2014-019

**DATE(S) ISSUED:**

03/11/2014

**SUBJECT:**

Cumulative Security Update for Internet Explorer (MS14-012)

**EXECUTIVE SUMMARY:**

Multiple vulnerabilities have been discovered in Microsoft's web browser, Internet Explorer, which could allow an attacker to take complete control of an affected system. Successful exploitation of these vulnerabilities could result in an attacker gaining elevated privileges on the system. An attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.

**THREAT INTELLIGENCE**

One publicly disclosed and seventeen privately disclosed vulnerabilities were covered in this month's update. This security update is rated as Critical for Internet Explorer on Windows clients and Moderate for Internet Explorer on Windows Servers. There has not been any active exploitation or exploit code observed for any of these vulnerabilities at the time of their announcement.

**SYSTEM AFFECTED:**

- Internet Explorer 6
- Internet Explorer 7
- Internet Explorer 8
- Internet Explorer 9
- Internet Explorer 10
- Internet Explorer 11

**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: High

#### **TECHNICAL SUMMARY:**

Eighteen memory corruption vulnerabilities, which occur due to the way Internet Explorer improperly accesses objects in memory, were found. These vulnerabilities could allow an attacker to execute remote code by luring a victim to a malicious website. When the website is visited, the attacker's script will run with same permissions as the affected user account.

Successful exploitation of these vulnerabilities could result in an attacker gaining elevated privileges on the system. An attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.

#### **RECOMMENDATIONS:**

We recommend the following actions be taken:

- Apply appropriate patches provided by Microsoft to vulnerable systems immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to click links from unknown sources, or to click links without verifying the intended destination.

#### **REFERENCES:**

Microsoft:

<https://support.microsoft.com/kb/294871>

<https://technet.microsoft.com/en-us/security/bulletin/ms14-012>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0297>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0298>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0299>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0302>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0303>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0304>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0305>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0306>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0307>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0308>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0309>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0311>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0312>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0313>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0314>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0321>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0322>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0324>