



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

April 14, 2015

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:
SA2015-040**

**DATE(S) ISSUED:
04/14/15**

**SUBJECT:
Cumulative Security Update for Internet Explorer (3038314)**

OVERVIEW:
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:
This advisory covers ten privately disclosed vulnerabilities, which are not currently being exploited in the wild.

SYSTEMS AFFECTED:

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

RISK:

Government:

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

Businesses:

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

Home users: High

TECHNICAL SUMMARY:

Multiple vulnerabilities were discovered in Internet Explorer due to the way objects in memory are improperly accessed. The vulnerabilities are as follows:

- Nine Memory Corruption Vulnerabilities
- One ASLR Bypass Vulnerability

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://technet.microsoft.com/library/security/MS15-032>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1652>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1657>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1659>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1660>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1661>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1662>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1665>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1666>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1667>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-1668>