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**TLP: WHITE**

**Traffic Light Protocol (TLP): WHITE information may be distributed without restriction, subject to copyright controls.**

<http://www.us-cert.gov/tlp/>

**DATE ISSUED:**

11/10/2015

**SUBJECT:**

Cumulative Security Update for Internet Explorer (MS15-112)

**OVERVIEW:**

Multiple vulnerabilities have been discovered in Microsoft's web browser, Internet Explorer. These vulnerabilities could allow an attacker to execute code in the context of the browser if a user views a specially crafted web page. Successful exploitation of these vulnerabilities could result in an attacker gaining the same privileges as the logged on user. Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.

**THREAT INTELLIGENCE:**

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

**SYSTEM AFFECTED:**

- 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:**

Microsoft Internet Explorer is prone to multiple vulnerabilities that could allow remote code execution. The vulnerabilities are as follows:

- 22 memory corruption vulnerabilities could allow for remote code execution.
- One information disclosure vulnerabilities.
- One scripting engine memory corruption vulnerabilities that could allow for remote code execution.
- One VBScript and Jscript ASLR Bypass vulnerability.

The most severe of these vulnerabilities could allow an attacker to execute remote code by luring a victim to visit a specially crafted malicious website. When the website is visited, the attacker's script will run within the context of the affected browser or with the same permissions as the affected user account.

Depending on the privileges associated with the user, an attacker could then install programs; view, change, or delete data; or create new accounts with full user rights.

#### **RECOMMENDATIONS:**

The following actions should be taken:

- Apply appropriate updates immediately after appropriate testing.
- Remind users not to visit websites or follow links provided by unknown or untrusted sources.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments especially from untrusted sources.

#### **REFERENCES:**

##### **Microsoft:**

<https://technet.microsoft.com/en-us/library/security/MS15-112>

##### **CVE:**

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-2427>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6064>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6065>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6066>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6068>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6069>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6070>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6071>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6072>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6073>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6074>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6075>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6076>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6077>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6078>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6079>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6080>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6081>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6082>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6084>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6085>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6086>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6087>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6088>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-6089>

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