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TLP: WHITE

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

DATE(S) ISSUED:

01/13/15

SUBJECT:

Multiple vulnerabilities In Adobe Flash Player and Adobe AIR Could Allow Remote Code Execution (APSB15-01)

EXECUTIVE SUMMARY:

Multiple vulnerabilities in Adobe Flash Player and Adobe AIR could allow remote code execution. Adobe Flash Player is a widely distributed multimedia and application player used to enhance the user experience when visiting web pages or reading email messages. Adobe AIR is a cross platform runtime used for developing Internet applications that run outside of a browser. Successful exploitation could result in an attacker compromising data security, potentially allowing access to confidential data, or could compromise processing resources in a user's computer. Failed exploit attempts will likely cause denial-of-service conditions.

THREAT INTELLIGENCE

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

SYSTEM AFFECTED:

- Adobe Flash Player 16.0.0.235 and earlier versions
- Adobe Flash Player 13.0.0.259 and earlier 13.x versions
- Adobe Flash Player 11.2.202.425 and earlier versions for Linux
- Adobe AIR desktop runtime 15.0.0.356 and earlier versions
- Adobe AIR SDK 15.0.0.356 and earlier versions
- Adobe AIR SDK & Compiler 15.0.0.356 and earlier versions
- Adobe AIR 15.0.0.356 and earlier versions for Android

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:

Adobe Flash Player is prone to multiple vulnerabilities that could allow for remote code execution. These vulnerabilities are as follows:

- Improper file validation vulnerability (CVE-2015-0301).
- Information disclosure vulnerability that could lead to key stroke logging (CVE-2015-0302).
- Memory corruption vulnerabilities that could lead to code execution (CVE-2015-0303, CVE-2015-0306).

- Buffer overflow vulnerabilities that could lead to code execution (CVE-2015-0304, CVE-2015-0309).
- Type confusion vulnerability that could lead to code execution (CVE-2015-0305).
- Out-of-bounds read vulnerability that could lead to code execution (CVE-2015-0307).
- Use-after-free vulnerability that could lead to code execution (CVE-2015-0308).

Successful exploitation could result in an attacker compromising data security, potentially allowing access to confidential data, or could compromise processing resources in a user's computer.

RECOMMENDATIONS:

The following actions should be taken:

- Install the updates provided by Adobe immediately after appropriate testing.
- Remind users not to visit websites or follow links provided by unknown or untrusted sources.
- Do not open email attachments from unknown or untrusted sources.
- Limit user account privileges to those required only.

REFERENCES:

Adobe:

<http://helpx.adobe.com/security/products/flash-player/apsb15-01.html#tablet>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0301>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0302>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0303>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0304>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0305>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0306>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0307>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0308>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2015-0309>