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**DATE(S) ISSUED:**

08/21/2012

**SUBJECT:**

Vulnerabilities in Adobe Flash Player Could Allow For Remote Code Execution (APSB12-19)

**OVERVIEW:**

Multiple vulnerabilities have been discovered in Adobe Flash Player that could allow an attacker to take control of the affected system. 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. Successful exploitation 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. Failed exploit attempts will likely cause denial-of-service conditions.

**SYSTEMS AFFECTED:**

Adobe Flash Player 11.3.300.271 and earlier versions for Windows, Macintosh and Linux operating systems

Adobe Flash Player 11.1.115.11 and earlier versions for Android 4.x

Adobe Flash Player 11.1.111.10 and earlier versions for Android 3.x and 2.x

Adobe AIR 3.3.0.3670 and earlier versions for Windows and Macintosh

Adobe AIR 3.3.0.3690 SDK (includes AIR for iOS) and earlier versions

Adobe AIR 3.3.0.3650 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**

**DESCRIPTION:**

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

An unspecified memory corruption vulnerability exists in Adobe Flash Player that could allow remote code execution. (CVE-2012-4163, CVE-2012-4164, CVE-2012-4165, CVE-2012-4166).

An unspecified integer overflow vulnerability exists in Adobe Flash Player that could allow remote code execution (CVE-2012-4167).

An unspecified cross-domain information leak vulnerability exists in Adobe Flash Player (CVE-2012-4168).

Successful exploitation 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. Failed exploit attempts will likely cause denial-of-service conditions.

## **RECOMMENDATIONS:**

The following actions should be taken:

Install the updates provided by Adobe immediately after appropriate testing.

Users of Adobe Flash Player 11.3.300.271 and earlier versions for Windows and Macintosh should update to Adobe Flash Player 11.4.402.265.

Users of Adobe Flash Player 11.2.202.236 and earlier versions for Linux should update to Adobe Flash Player 11.2.202.238.

Users of Adobe Flash Player 11.1.115.11 and earlier versions on Android 4.x devices should update to Adobe Flash Player 11.1.115.17.

Users of Adobe Flash Player 11.1.111.10 and earlier versions for Android 3.x and earlier versions should update to Flash Player 11.1.111.16.

Users of Adobe AIR 3.3.0.3670 for Windows and Macintosh should update to Adobe AIR 3.4.0.2540.

Users of the Adobe AIR 3.3.0.3690 SDK (includes AIR for iOS) should update to the Adobe AIR 3.4.0.2540 SDK.

Users of the Adobe AIR 3.3.0.3650 and earlier versions for Android should update to the Adobe AIR 3.4.0.2540.

Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.

Remind users not to visit untrusted websites or follow links provided by unknown or untrusted sources. Do not open email attachments from unknown or untrusted sources.

## **REFERENCES:**

### **Adobe:**

<http://www.adobe.com/support/security/bulletins/apsb12-19.html>

### **CVE:**

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4163>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4164>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4165>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4166>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4167>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2012-4168>