

# State of Alaska State Security Office



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

October 28, 2010

*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:**  
SA2010-082

**DATE(S) ISSUED:**  
10/28/2010  
11/05/2010 – Updated  
11/16/2010 - Updated

**SUBJECT:**  
Vulnerability in Multiple Adobe Products Could Allow Remote Code Execution

**ORIGINAL OVERVIEW:**  
A vulnerability has been discovered in Adobe Flash Player, Reader, and Acrobat that could allow remote code execution. Adobe Reader allows users to view Portable Document Format (PDF) files. Adobe Acrobat offers users additional features such as the ability to create PDF files. Adobe Flash Player is used to view animations and movies using a web browser. This vulnerability can be exploited by opening a malicious Adobe Flash, Reader, or Acrobat file. This file could be sent via email, hosted on a web site, or placed on a network share. Successful exploitation may result in an attacker gaining the same privileges as the logged on user within the scope of the application. 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 exploitation could result in denial-of-service conditions.

Please note that there is no update available for this vulnerability. There are reports of this vulnerability being actively exploited on the Internet. An update for Adobe Flash Player 10.x for Windows, Macintosh, Linux and Android will be released by November 9, 2010. An update for Adobe Reader and Acrobat 9.4 and earlier 9.x versions will be released during the week of November 15, 2010.

*November 05 - UPDATED OVERVIEW:*

*Adobe has released an update that resolves this vulnerability and several other vulnerabilities associated with Adobe Flash Player. It should be noted that the vulnerabilities associated with Adobe Reader and Adobe Acrobat still remain unpatched.*

**November 16 – UPDATED OVERVIEW:**

**Adobe has released an update that resolves the reported vulnerabilities in Adobe Reader and Adobe Acrobat.**

**SYSTEMS AFFECTED:**

- Adobe Flash Player 10.1.85.3 and earlier versions for Windows, Macintosh, Linux and Solaris operating systems
- Adobe Flash Player 10.1.95.2 and earlier for Android
- Adobe Reader 9.4 and earlier 9.x versions for Windows, Macintosh and UNIX\*
- Adobe Acrobat 9.4 and earlier 9.x versions for Windows and Macintosh\*

**\*Note:** Adobe Reader and Acrobat 8.x are not affected by this vulnerability.

**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

### **ORIGINAL DESCRIPTION:**

A vulnerability has been discovered in Adobe Flash Player, Reader, and Acrobat that could allow remote code execution due to an issue with the authplay.dll. This vulnerability can be exploited if a user visits a specially crafted web page or opens a malicious Flash Player, Reader, or Acrobat file designed to exploit this vulnerability. Successful exploitation may result in an attacker gaining the same privileges as the logged on user within the scope of the application. 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 exploitation could result in denial-of-service conditions.

### *November 05 - UPDATED DESCRIPTION:*

*Adobe has released an update that resolves this vulnerability and several other vulnerabilities associated with Adobe Flash Player. It should be noted that the vulnerabilities associated with Adobe Reader and Adobe Acrobat still remain unpatched.*

### **November 16 – UPDATED DESCRIPTION:**

***Adobe has released an update that resolves the reported vulnerabilities in Adobe Reader and Adobe Acrobat.***

### **ORIGINAL RECOMMENDATIONS:**

We recommend the following actions be taken:

- For Adobe Reader and Acrobat 9.x consider deleting, renaming, or removing access to the authplay.dll file that is included with Adobe Reader and Acrobat 9.x. This will eliminate the chance of remote code execution but users will still experience a non-exploitable crash or error message when opening a PDF file that contains Flash (SWF) content.
- Apply appropriate updates provided by Adobe to vulnerable systems as soon as they become available.
- 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 un-trusted websites or follow links provided by unknown or un-trusted sources.

*November 5 - UPDATED RECOMMENDATIONS:*

We recommend the following actions be taken:

- Apply appropriate updates provided by Adobe to vulnerable systems immediately after appropriate testing.

***November 16 – UPDATED RECOMMENDATIONS:***

***We recommend the following actions be taken:***

- ***Apply appropriate updates provided by Adobe to vulnerable systems immediately after appropriate testing.***

**ORIGINAL REFERENCES:**

**Adobe:**

<http://www.adobe.com/support/security/advisories/apsa10-05.html>

<http://blogs.adobe.com/psirt/>

**Secunia:**

<http://secunia.com/advisories/42030>

**SecurityFocus:**

<http://www.securityfocus.com/bid/44504>

**CVE:**

<http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2010-3654>

*November 5 - UPDATED REFERENCES:*

*Adobe:*

<http://www.adobe.com/support/security/bulletins/apsb10-26.html>

***November 16 – UPDATED REFERENCES:***

***Adobe:***

***<http://www.adobe.com/support/security/bulletins/apsb10-28.html>***