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DATE(S) ISSUED:

9/9/2010

SUBJECT:

Vulnerability in Adobe Reader and Adobe Acrobat Could Allow For Remote Code Execution

OVERVIEW:

A vulnerability has been discovered in the Adobe Acrobat and Adobe Reader applications which could allow attackers to execute arbitrary code on the affected systems. Adobe Reader allows users to view Portable Document Format (PDF) files while Adobe Acrobat offers users additional features such as the ability to create PDF files. This vulnerability may be exploited if a user visits or is redirected to a specially crafted web page or when a user opens a specially crafted PDF file. Successful exploitation will 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.

There are reports of active exploitation of this vulnerability. There is currently no patch available for this vulnerability.

SYSTEMS AFFECTED:

- Adobe Acrobat 9.3.4 and earlier
- Adobe Acrobat Standard 9.3.4 and earlier
- Adobe Acrobat Professional 9.3.4 and earlier
- Adobe Reader 9.3.4 and earlier

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 Reader and Adobe Acrobat are prone to a remote code execution vulnerability when handling malicious PDF files. The vulnerability exists due to a heap-memory corruption issue in 'cooltype.dll' when handling PDF files containing malformed TrueType (TTF) fonts. This vulnerability may be exploited if a user visits or is redirected to a specially crafted web page. Exploitation may also occur when a user opens a specially crafted PDF file.

Successful exploitation will 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.

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RECOMMENDATIONS:

The following actions should be taken:

- Install the updated software from Adobe as soon as it becomes available 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 visit un-trusted websites or follow links provided by unknown or un-trusted sources.
- Do not open email attachments from unknown or un-trusted sources.

REFERENCES:

Adobe:

<http://www.adobe.com/support/security/advisories/apsa10-02.html>

Secunia:

<http://secunia.com/advisories/41340>

Security Focus:

<http://www.securityfocus.com/bid/43057>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=2010-2883>