



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

January 14, 2014

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:

SA2014-002

DATE(S) ISSUED:

01/14/2014

SUBJECT:

Vulnerabilities in Microsoft Word and Office Web Apps Could Allow Remote Code Execution (MS14-001)

EXECUTIVE SUMMARY:

Multiple vulnerabilities have been discovered in Microsoft Office which could allow an attacker to take complete control of an affected system. 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:

At this time these vulnerabilities are not publicly disclosed and there is no known proof-of-concept code available.

SYSTEM AFFECTED:

- Microsoft Office 2003 SP3
- Microsoft Office 2007 SP3
- Microsoft Office 2010 32-bit SP1 and SP2
- Microsoft Office 2010 64-bit SP1 and SP2
- Microsoft Office 2013 32 bit
- Microsoft Office 2013 64-bit

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:

Three memory corruption vulnerabilities have been privately reported to Microsoft that could allow for remote code execution. The vulnerabilities are caused when Microsoft Word does not properly handle objects in memory while parsing specially crafted Office files. These vulnerabilities can be triggered by opening a specially crafted file and can be exploited via email or through the web. In the email-based scenario, the user would have to open the specially crafted file as an email attachment. In the web based scenario, a user would have to open the specially crafted file that is hosted on a website. As long as the user opens the file using Microsoft Office, the attacker's supplied code will execute.

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.

RECOMMENDATIONS:

We recommend the following actions be taken:

- Apply appropriate patches provided by Microsoft to vulnerable systems immediately 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.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments especially from un-trusted sources.

REFERENCES:

Microsoft:

<https://technet.microsoft.com/en-us/security/bulletin/ms14-001>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0258>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0259>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-0258>

SecurityFocus:

<http://www.securityfocus.com/bid/64728>

<http://www.securityfocus.com/bid/64727>

<http://www.securityfocus.com/bid/64726>