



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

September 13, 2016

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:

SA2016-135

DATE(S) ISSUED:

09/13/2016

SUBJECT:

Vulnerability in Microsoft Silverlight Could Allow for Remote Code Execution (MS16-109)

OVERVIEW:

A vulnerability has been discovered in Microsoft Silverlight, which could allow for remote code execution. Microsoft Silverlight is a media application for browsers on Microsoft Windows and Apple Mac OS technologies. Successful exploitation of this vulnerability 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:

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

SYSTEMS AFFECTED:

- Microsoft Silverlight 5 prior to version 5.1.50709.0 for Windows Clients, Windows Servers, and Mac
- Microsoft Silverlight 5 Developer Runtime prior to version 5.1.50709.0 for Windows Clients, Windows Servers, and Mac

RISK:

Government:

- Large and medium government entities: **High**
- Small government entities: **Medium**

Businesses:

- Large and medium business entities: **High**

- Small business entities: **Medium**

Home users: Low

TECHNICAL SUMMARY:

One vulnerability has been discovered in Microsoft Silverlight, which could allow for remote code execution (CVE-2016-3367). This vulnerability exists when Microsoft Silverlight improperly allows applications to access objects in memory. To exploit the vulnerability, an attacker could host a website that contains a specially crafted Silverlight application and then convince a user to visit the compromised website, typically by enticing them to click a link in an email or instant message.

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 update 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/library/security/ms16-109.aspx>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3367>