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DATE(S) ISSUED:

08/09/2016

SUBJECT:

Multiple Vulnerabilities in Microsoft Graphics Component Could Allow for Remote Code Execution (MS16-097)

OVERVIEW:

Multiple vulnerabilities have been discovered in Microsoft's Graphics Component, which could allow for remote code execution. These vulnerabilities can be exploited by either convincing a user to open a specially crafted document or convincing a user to visit a specially crafted webpage. 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. Users whose accounts are configured to have fewer user rights on the system could be less impacted than those who operate with administrative user rights.

THREAT INTELLIGENCE:

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

SYSTEMS AFFECTED:

- Microsoft Windows Vista
- Microsoft Windows Server 2008 and 2008 R2 (Including Server Core Installations)
- Microsoft Windows 7
- Microsoft Windows 8.1 and RT 8.1
- Microsoft Windows Server 2012 and 2012 R2 (including Server Core Installations)
- Microsoft Windows 10
- Microsoft Office 2007 and 2010
- Microsoft Word Viewer
- Skype for Business 2016
- Microsoft Lync 2010 and 2013
- Microsoft Live Meeting 2007 Console

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:**

Three vulnerabilities have been discovered in Microsoft's Graphics Component, which could allow for remote code execution. The vulnerabilities exist when the Windows font library improperly handles specially crafted embedded fonts. (CVE-2016-3301, CVE-2016-3303, CVE-2016-3304)

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. Users whose accounts are configured to have fewer user rights on the system could be less impacted than those who operate with administrative user rights.

RECOMMENDATIONS:

The following actions should 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/library/security/ms16-097.aspx>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3301>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3303>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3304>

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