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**DATE(S) ISSUED:**

06/14/2016

**SUBJECT:**

Multiple Vulnerabilities in Microsoft Office Could Allow for Remote Code Execution (MS16-070)

**OVERVIEW:**

Multiple vulnerabilities have been discovered in Microsoft Office, the most severe of which could allow for remote code execution if a user opens a specially crafted Microsoft Office file. 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 Office 2007, 2010, 2013, 2013 RT, 2016
- Microsoft Office for Mac 2011
- Microsoft Office 2016 for Mac
- Microsoft Word Viewer
- Microsoft Office Compatibility Pack Service Pack 3
- Microsoft Visio Viewer 2010
- Microsoft SharePoint Server 2010, 2013
- Microsoft Office Web Apps 2010, 2013
- Microsoft Office Online Server
- Microsoft Office OneNote 2016

**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**

Multiple vulnerabilities have been discovered in Microsoft Office, the most severe of which could allow for remote code execution if a user opens a specially crafted Microsoft Office file. An attacker who successfully exploited these vulnerabilities could run arbitrary code in the context of the current user.

- Two remote code execution vulnerabilities exist when the Office software fails to properly handle objects in memory. (CVE-2016-0025, CVE-2016-3233)
- Information disclosure vulnerability exists when Microsoft Office improperly discloses the contents of its memory. (CVE-2016-3234).
- A remote code execution vulnerability exists when Windows improperly validates input before loading libraries. (CVE-2016-3235)

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/MS16-070>

##### **CVE:**

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-0025>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3233>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3234>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-3235>

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