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TLP: WHITE

Traffic Light Protocol (TLP): WHITE information may be distributed without restriction, subject to copyright controls.

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DATE(S) ISSUED:

06/02/2016

SUBJECT:

Multiple Vulnerabilities in Google Chrome Could Allow for Arbitrary Code Execution

OVERVIEW:

Multiple vulnerabilities have been discovered in Google Chrome, the most severe of which could result in arbitrary code execution. Google Chrome is a web browser used to access the Internet. These vulnerabilities can be exploited if a user visits, or is redirected to, a specially crafted web page. Successful exploitation of these vulnerabilities could allow an attacker to execute arbitrary code in the context of the browser, obtain sensitive information, bypass security restrictions, or cause denial-of-service conditions.

THREAT INTELLIGENCE:

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

SYSTEM AFFECTED:

- Google Chrome prior to version 51.0.2704.79

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 Google Chrome. These vulnerabilities can be triggered by a user visiting a specially crafted web page. Details of these vulnerabilities are as follows:

- Cross-origin bypass in Extension bindings. (CVE-2016-1696)
- Cross-origin bypass in Blink. (CVE-2016-1697)
- Information leak in Extension bindings. (CVE-2016-1698)
- Parameter sanitization failure in DevTools. (CVE-2016-1699)
- Use-after-free in Extensions. (CVE-2016-1700)

- Use-after-free in Autofill. (CVE-2016-1701)
- Out-of-bounds read in Skia. (CVE-2016-1702)
- Various fixes from internal audits, fuzzing and other initiatives. (CVE-2016-1703)

Successful exploitation of these vulnerabilities could allow an attacker to execute arbitrary code in the context of the browser, obtain sensitive information, bypass security restrictions, or cause denial-of-service conditions.

RECOMMENDATIONS:

The following actions should be taken:

- Apply appropriate patches provided by Google 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:

Google:

<http://googlechromereleases.blogspot.in/2016/06/stable-channel-update.html>

CVE:

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1696>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1697>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1698>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1699>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1700>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1701>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1702>

<https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2016-1703>

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