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DATE(S) ISSUED:

07/30/2013

SUBJECT:

Multiple Security Vulnerabilities reported in Google Chrome

OVERVIEW:

Multiple vulnerabilities have been discovered in Google Chrome that could allow remote code execution, bypass of security restrictions, disclosure of sensitive information, or cause denial-of-service conditions. Google Chrome is a web browser used to access the Internet. Details are not currently available that depict accurate attack scenarios, but it is believed that some of the vulnerabilities can be exploited if a user visits, or is redirected to, a specially crafted web page.

Successful exploitation of these vulnerabilities may result in either an attacker gaining the same privileges as the logged on user, or gaining session authentication credentials. Depending on the privileges associated with the user, an attacker could install programs; view, change, or delete data; or create new accounts with full user rights.

SYSTEMS AFFECTED:

- Google Chrome Prior to 28.0.1500.95

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

DESCRIPTION:

Multiple vulnerabilities have been discovered in Google Chrome. Details of these vulnerabilities are as follows:

1. A security bypass vulnerability occurs due to origin bypass in frame handling. [CVE-2013-2881]

2. An issue regarding type confusion in V8. [CVE-2013-2882]
3. A use-after-free vulnerability exists in MutationObserver. [CVE-2013-2883]
4. A use-after-free vulnerability exists in DOM. [CVE-2013-2884]
5. A use-after-free vulnerability exists in input handling. [CVE-2013-2885]
6. Multiple security vulnerabilities exist due to unspecified error. [CVE-2013-2886]

Successful exploitation of the above vulnerabilities could result in an attacker gaining the same privileges as the user. Depending on the privileges associated with the user, an attacker could install programs; view, change, delete data; or create new accounts with full user rights. Failed exploit attempts will likely cause denial-of-service conditions.

RECOMMENDATIONS:

The following actions should be taken:

- Update vulnerable Google Chrome products immediately after appropriate testing by following the steps outlined by Google.
- 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.
- Do not open email attachments or click on URLs from unknown or un-trusted sources.

REFERENCES:

Google:

http://googlechromereleases.blogspot.ie/2013/07/stable-channel-update_30.html

Security Focus:

<http://www.securityfocus.com/bid/61514>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2881>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2882>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2883>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2884>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2885>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2013-2886>