

Subject: **Advisory – Prevention Against Hostile Cyber Attack (Advisory No. 9)**

1. **Introduction.** Recently, a malware has been identified; spreading through spoofed e-mails, and is involved targeting defense / intelligence organizations as well as government departments on large scale. These e-mails portray a legitimate subject "CSD package details" which contains a malicious link that re-directs the user to download discount schemes. Extracting and clicking the fake excel file execute a malware in background, which compromises victim's machine.

2. **Summary of Malicious Emails**

- a. **Subjects.** CSD 2019 Discount Schemes.
- b. **Name of Attachments.** CSD_Schemes_2019.xls.
- c. **Antivirus Detection Rate.** 5 / 67 (7.46% very low detection rate).
- d. **Malware Type.** Macro based Malware.
- e. **File Size** 794.5 Kb.
- f. **File Hash.** a6270064f1630cdf5bcda858762db516.
- g. **File Extension.** Microsoft Excel File (.xls).
- h. **C & C Servers**

Ser	C & C Servers URL	IP Address	Hosting Location	Registrant Country
(1)	unique.fontsupdate.com (C & C server)	37.72.168.164	Netherlands	-
(2)	rightapps.net/sms/security/images/csd_schemes_2019.php (Malware Download Link)	151.106.12.34	France	Pakistan

3. **Indicators of Compromise.** The malware makes following files on the infected system: -

- a. C:\Users\<admin>\AppData\juchek.ttp
- b. C:\Users\<admin>\AppData\bat.bat
- c. HKEY\SOFTWARE\Microsoft\Windows\CurrentVersion\Run\juchek.exe

4. **Capabilities of Malware**

- a. The malware is capable of getting **system IP, user location, network configuration details, computer configurations** and it can **upload these details on its C & C server mentioned in para 2(h).**

- b. The malware has the ability to upload files, get system information, list files and act as a **Key logger**.
- c. The malware can copy itself into registry and it can **automatically execute itself on windows boot**.

5. **Recommendations**

- a. **Install and update licensed and well reputed antiviruses** such as Kaspersky, Avira, Avast etc.
- b. Make sure that **host based firewall is enabled** and configured to block all inbound traffic except from **white listed applications**.
- c. **Check list of white listed applications** to see whether any unidentified application has been accessed through firewall.
- d. **Block C & C Servers at para 2(h) in firewalls of own networks**.
- e. In case, **indicators of compromise (para 3)** are found in the system, please disconnect the computer from internet and reinstall windows.
- f. **Update all installed softwares** including Windows OS, Microsoft Office and PDF reader.
- g. **Don't download attachments from emails** unless you are sure about the source.
- h. All PC's present in the domain network must have distinct passwords and Active Directory Network Administrator password must be 8 to 10 characters long and shouldn't be shared with anyone.
- i. Utilization of **internet explorer** as the **default search engine** is **Strongly prohibited** and regularly updated Google Chrome or Mozilla FireFox with AdBlock plugin must be used for secure internet surfing.
- j. To avoid unauthorized access of email accounts, 2 x factor authentication must be enabled on all email accounts.