

Bitter Group Distributes CHM Malware to Chinese Organizations - ASEC

By ATCP

Published: 2023-04-03 · Archived: 2026-04-05 13:59:50 UTC



The Bitter (T-APT-17) group is a threat group that usually targets South Asian government organizations, using Microsoft Office programs to distribute malware such as Word or Excel. AhnLab Security Emergency response Center (ASEC) has identified multiple circumstances of the group distributing CHM malware to certain Chinese organizations. CHM files have been used by various threat groups in APT attacks since earlier this year and covered multiple times in ASEC blog posts.

The files used in the recent attack were being distributed as attachments to emails as compressed files. The compressed files contain a CHM file with the following filenames.

- **Filenames used in distribution**

Project Plan 2023 .chm

Urgent passport enquiry of the following officials.docx.chm

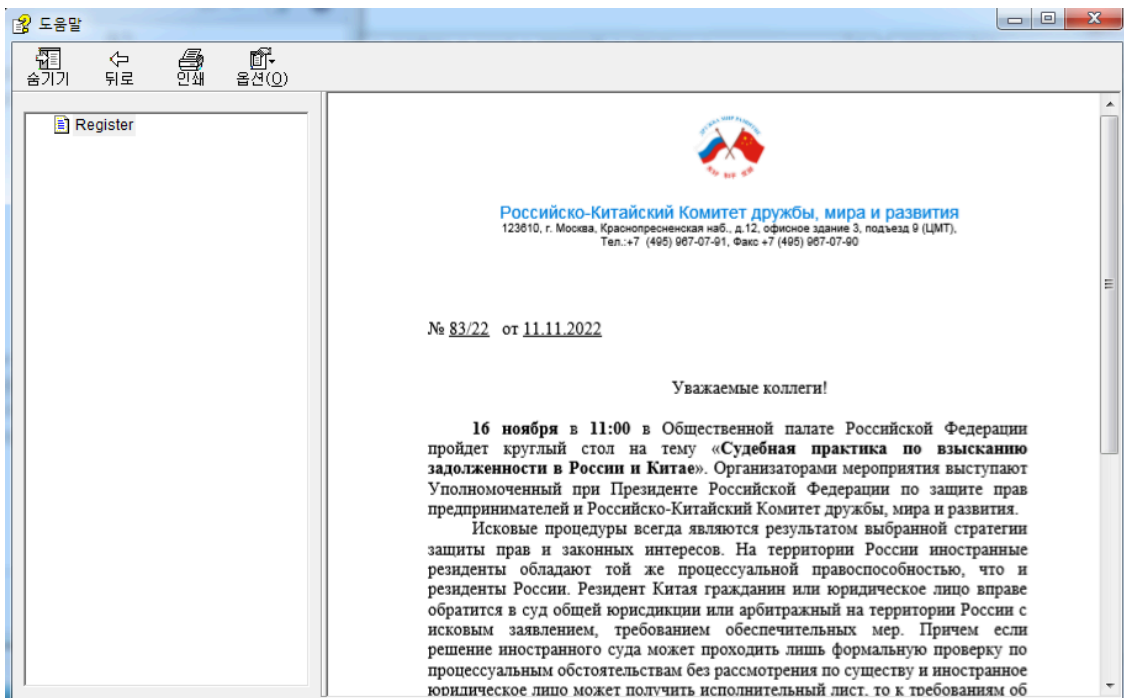
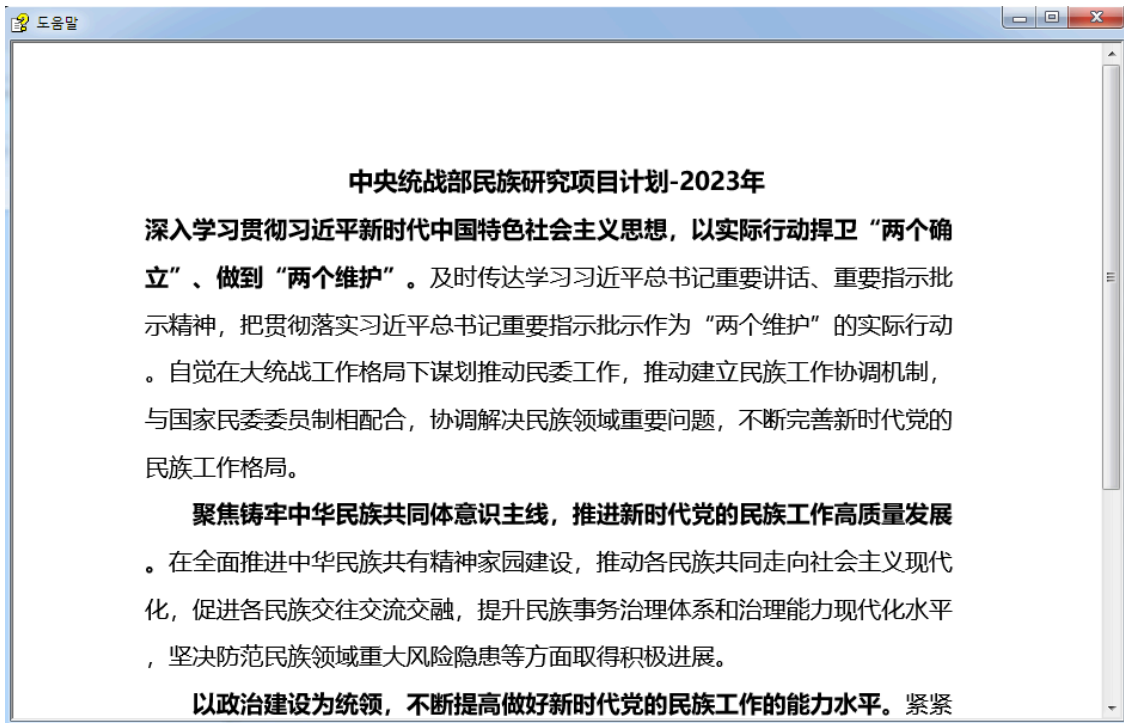
SUSPECTED FOREIGN TERRORIST FIGHTERS.chm

Forensic Evidence on Crime Scene.chm

Patches updates.chm

Ticktes.chm
KC_16.11.chm

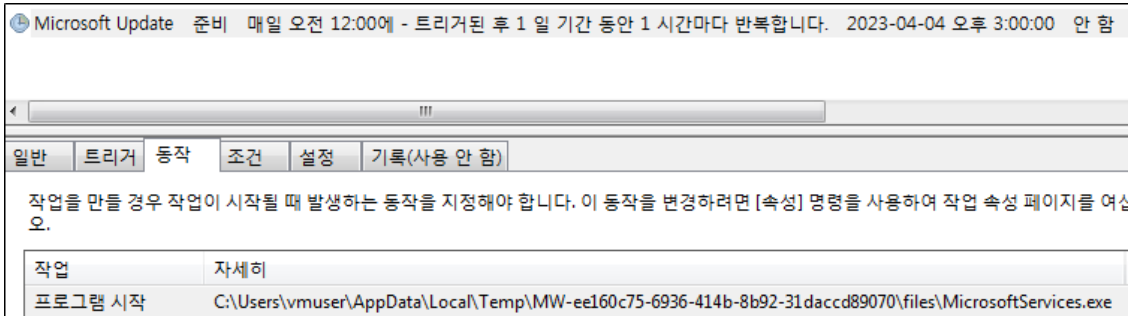
When CHM files are executed, most generate an empty help window, but some display content related to the “United Front Work Department of the Central Committee of the Chinese Communist Party” and “Russian-Chinese Committee for Friendship, Peace and Development.”



The internal malicious script identified in such CHM files is as follows. It is difficult for users to be aware of how the malicious script operates. A common characteristic of this script is that the part of the script involving the


```
cmd.exe /c dir "%userprofile%\Desktop">> c:\Users\Public\cr.dat  
cmd.exe /c dir "%userprofile%\Downloads">> c:\Users\Public\cr.dat
```

Afterward, a task is created to maintain persistence which executes MicrosoftServices.exe under the name "Microsoft Update."



Additionally, it attempts to connect to the following C2 server and can perform various malicious behaviors following commands from the threat actor.

- msdata.ddns[.]net:443

Recently there has been a rise in attacks using CHM files both in Korea and overseas, and this file format is being used for various malware. Users must carefully check the senders of emails and refrain from opening files from unknown sources. They should also perform routine PC checks and always keep their security products updated to the latest version.

[File Detection]

Trojan/Win.Generic.R560734 (2023.03.04.03)

Dropper/CHM.Generic (2023.03.30.00)

Dropper/MSI.Generic (2023.04.04.03)

MD5

09a9e1b03f7d7de4340bc5f9e656b798

8b15c4a11df2deea9ad4699ece085a6f

a7e8d75eae4f1cb343745d9dd394a154

cce89f4956a5c8b1bec82b21e371645b

Additional IOCs are available on AhnLab TIP.

URL

https[:]//bluelotus[.]mail-gdrive[.]com/Services[.]msi

https[:]//coauthcn[.]com/hbz[.]php?id=%computername%

https[:]//msdata[.]ddns[.]net/

Additional IOCs are available on AhnLab TIP.

Gain access to related IOCs and detailed analysis by subscribing to **AhnLab TIP**. For subscription details, click the banner below.



Source: <https://asec.ahnlab.com/en/51043/>