

Embargo, Software S1247 | MITRE ATT&CK®

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Enterprise [T1547 .001 Boot or Logon Autostart Execution](#): [Registry Run Keys / Startup Folder](#)

[Embargo](#) has modified the Windows Registry to start a custom service named irnagentd in Safe Mode.^[1]

Enterprise [T1059 .003 Command and Scripting Interpreter](#): [Windows Command Shell](#)

[Embargo](#) has utilized a BAT script to disable security solutions.^[2]

Enterprise [T1543 .003 Create or Modify System Process](#): [Windows Service](#)

[Embargo](#) has created persistence through the DLL variant of the MDeployer toolkit by creating a service called irnagentd that launches after the system is rebooted in Safe Mode.^[2]

Enterprise [T1486 Data Encrypted for Impact](#)

[Embargo](#) has the ability to encrypt files with the ChaCha20 and Curve25519 cryptographic algorithms.^[1]

[Embargo](#) also has the ability to encrypt system data and add a random six-letter extension consisting of hexadecimal characters such as ".b58eeb" or ".3d828a" to encrypted files.^[2]

Enterprise [T1140 Deobfuscate/Decode Files or Information](#)

[Embargo](#) has utilized MDeployer to decrypt two payloads that contain MS4Killer toolkit b.cache and the [Embargo](#) ransomware executable a.cache with a hardcoded RC4 key

```
wlQYLoPCi13niI7x8CvR9EtNtL/aeaHrZ23LP3fAsJogVTIzdnZ5Pi09ZVeHFkiB .[2]
```

Enterprise [T1480 .002 Execution Guardrails](#): [Mutual Exclusion](#)

[Embargo](#) has utilized a hardcoded mutex name of "LoadUpOnGunsBringYourFriends" using the

```
CreateMutexW() function.[1] Embargo has also utilized a hardcoded mutex name of
```

```
"IntoTheFloodAgainSameOldTrip."[2]
```

Enterprise [T1068 Exploitation for Privilege Escalation](#)

[Embargo](#) has leveraged MS4Killer to deliver a vulnerable driver to the victim device, sometimes referred to as Bring Your Own Vulnerable Driver (BYOVD).^[2] [Embargo](#) has utilized the vulnerable driver probmon.sys version 3.0.0.4 which had a revoked certificated from "ITM System Co.,LTD."^[2]

Enterprise [T1083 File and Directory Discovery](#)

[Embargo](#) has searched for folders, subfolders and other networked or mounted drives for follow on encryption actions.^[1] [Embargo](#) has also iterated device volumes using `FindFirstVolumeW()` and `FindNextVolumeW()`

functions and then calls the `GetVolumePathNamesForVolumeNameW()` function to retrieve a list of drive letters and mounted folder paths for each specified volume.^[1]

Enterprise [T1657 Financial Theft](#)

[Embargo](#) has been leveraged in double-extortion ransomware, exfiltrating files then encrypting them, to prompt victims to pay a ransom.^{[1][2]}

Enterprise [T1562 .009 Impair Defenses: Safe Mode Boot](#)

[Embargo](#) has used a DLL variant of MDeployer to disable security solutions through Safe Mode.^[2]

Enterprise [T1070 .004 Indicator Removal: File Deletion](#)

[Embargo](#) has leveraged MDeployer to terminate the MS4Killer process, delete the decrypted payload files and a driver file dropped by MS4killer, and reboot the system.^[2]

Enterprise [T1490 Inhibit System Recovery](#)

[Embargo](#) has cleared files from the recycle bin by invoking `SHEmptyRecycleBinW()` and disabled Windows recovery through `C:\Windows\System32\cmd.exe /q /c bcdedit /set {default} recoveryenabled no`.^[1]

Enterprise [T1112 Modify Registry](#)

[Embargo](#) has modified and deleted Registry keys to add services, and to disable Security Solutions such as Windows Defender.^[2]

Enterprise [T1106 Native API](#)

[Embargo](#) has leveraged Windows Native API functions to execute its operations.^[1]

Enterprise [T1135 Network Share Discovery](#)

[Embargo](#) has searched for folders, subfolders and other networked or mounted drives for follow-on encryption actions.^[1]

Enterprise [T1027 .013 Obfuscated Files or Information: Encrypted/Encoded File](#)

[Embargo](#) has encrypted both MDeployer and MS4 Killer payloads with RC4.^[2]

Enterprise [T1057 Process Discovery](#)

[Embargo](#) has utilized MS4Killer to detect running processes on the victim device.^[2] [Embargo](#) has also captured a snapshot of active running processes using the Windows API `CreateToolHelp32Snapshot()`.^[1]

Enterprise [T1053 .005 Scheduled Task/Job: Scheduled Task](#)

[Embargo](#) has obtained persistence of the loader MDeployer by creating a scheduled task named "Perf_sys."^[2]

Enterprise [T1679 Selective Exclusion](#)

[Embargo](#) has avoided encrypting specific files and directories by leveraging a regular expression within the ransomware binary.^[1]

Enterprise [T1489 Service Stop](#)

[Embargo](#) has terminated active processes and services based on a hardcoded list using the `CloseServiceHandle()` function.^[1] [Embargo](#) has also leveraged MS4Killer to terminate processes contained in an embedded list of security software process names that were XOR-encrypted.^[2]

Enterprise [T1007 System Service Discovery](#)

[Embargo](#) has obtained active services running on the victim's system through the functions `OpenSCManagerW()` and `EnumServicesStatusExW()`.^[1]

Enterprise [T1569 .002 System Services: Service Execution](#)

[Embargo](#) has created a service named `irnagentd` that executed the MDeployer loader after the system is rebooted in Safe Mode.^[2]

Source: <https://attack.mitre.org/software/S1247>