

# Metamorfo, Software S0455 | MITRE ATT&CK®

Archived: 2026-04-05 18:39:30 UTC

Enterprise [T1071 .001 Application Layer Protocol: Web Protocols](#)

[Metamorfo](#) has used HTTP for C2. [\[1\]\[2\]](#)

Enterprise [T1010 Application Window Discovery](#)

[Metamorfo](#) can enumerate all windows on the victim's machine. [\[3\]\[4\]](#)

Enterprise [T1119 Automated Collection](#)

[Metamorfo](#) has automatically collected mouse clicks, continuous screenshots on the machine, and set timers to collect the contents of the clipboard and website browsing. [\[3\]](#)

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

[Metamorfo](#) has configured persistence to the Registry key

`HKCU\Software\Microsoft\Windows\CurrentVersion\Run, Spotify =% APPDATA%\Spotify\Spotify.exe` and used .LNK files in the startup folder to achieve persistence. [\[1\]\[3\]\[4\]\[2\]](#)

Enterprise [T1115 Clipboard Data](#)

[Metamorfo](#) has a function to hijack data from the clipboard by monitoring the contents of the clipboard and replacing the cryptocurrency wallet with the attacker's. [\[4\]\[2\]](#)

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

[Metamorfo](#) has used `cmd.exe /c` to execute files. [\[1\]](#)

[.005 Command and Scripting Interpreter: Visual Basic](#)

[Metamorfo](#) has used VBS code on victims' systems. [\[3\]](#)

[.007 Command and Scripting Interpreter: JavaScript](#)

[Metamorfo](#) includes payloads written in JavaScript. [\[1\]](#)

Enterprise [T1565 .002 Data Manipulation: Transmitted Data Manipulation](#)

[Metamorfo](#) has a function that can watch the contents of the system clipboard for valid bitcoin addresses, which it then overwrites with the attacker's address. [\[4\]\[2\]](#)

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

Upon execution, [Metamorfo](#) has unzipped itself after being downloaded to the system and has performed string decryption. <sup>[1][3][2]</sup>

Enterprise [T1573 .001 Encrypted Channel: Symmetric Cryptography](#)

[Metamorfo](#) has encrypted C2 commands with AES-256. <sup>[2]</sup>

[.002 Encrypted Channel: Asymmetric Cryptography](#)

[Metamorfo](#)'s C2 communication has been encrypted using OpenSSL. <sup>[1]</sup>

Enterprise [T1041 Exfiltration Over C2 Channel](#)

[Metamorfo](#) can send the data it collects to the C2 server. <sup>[2]</sup>

Enterprise [T1083 File and Directory Discovery](#)

[Metamorfo](#) has searched the Program Files directories for specific folders and has searched for strings related to its mutexes. <sup>[1][4][3]</sup>

Enterprise [T1564 .003 Hide Artifacts: Hidden Window](#)

[Metamorfo](#) has hidden its GUI using the ShowWindow() WINAPI call. <sup>[1]</sup>

Enterprise [T1574 .001 Hijack Execution Flow: DLL](#)

[Metamorfo](#) has side-loaded its malicious DLL file. <sup>[1][3][2]</sup>

Enterprise [T1562 .001 Impair Defenses: Disable or Modify Tools](#)

[Metamorfo](#) has a function to kill processes associated with defenses and can prevent certain processes from launching. <sup>[1][3]</sup>

Enterprise [T1070 Indicator Removal](#)

[Metamorfo](#) has a command to delete a Registry key it uses, `\Software\Microsoft\Internet Explorer\notes`. <sup>[3]</sup>

[.004 File Deletion](#)

[Metamorfo](#) has deleted itself from the system after execution. <sup>[1][4]</sup>

Enterprise [T1105 Ingress Tool Transfer](#)

[Metamorfo](#) has used MSI files to download additional files to execute. <sup>[1][3][4][2]</sup>

Enterprise [T1056 .001 Input Capture: Keylogging](#)

[Metamorfo](#) has a command to launch a keylogger and capture keystrokes on the victim's machine. <sup>[4][2]</sup>

[.002 Input Capture: GUI Input Capture](#)

[Metamorfo](#) has displayed fake forms on top of banking sites to intercept credentials from victims. <sup>[3]</sup>

Enterprise [T1036 .005 Masquerading: Match Legitimate Resource Name or Location](#)

[Metamorfo](#) has disguised an MSI file as the Adobe Acrobat Reader Installer and has masqueraded payloads as OneDrive, WhatsApp, or Spotify, for example. <sup>[1][2]</sup>

Enterprise [T1112 Modify Registry](#)

[Metamorfo](#) has written process names to the Registry, disabled IE browser features, deleted Registry keys, and changed the ExtendedUIHoverTime key. <sup>[1][4][3][2]</sup>

Enterprise [T1106 Native API](#)

[Metamorfo](#) has used native WINAPI calls. <sup>[1][4]</sup>

Enterprise [T1095 Non-Application Layer Protocol](#)

[Metamorfo](#) has used raw TCP for C2. <sup>[3]</sup>

Enterprise [T1571 Non-Standard Port](#)

[Metamorfo](#) has communicated with hosts over raw TCP on port 9999. <sup>[3]</sup>

Enterprise [T1027 .002 Obfuscated Files or Information: Software Packing](#)

[Metamorfo](#) has used VMProtect to pack and protect files. <sup>[4]</sup>

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

[Metamorfo](#) has encrypted payloads and strings. <sup>[1][2]</sup>

Enterprise [T1566 .001 Phishing: Spearphishing Attachment](#)

[Metamorfo](#) has been delivered to victims via emails with malicious HTML attachments. <sup>[3][2]</sup>

Enterprise [T1057 Process Discovery](#)

[Metamorfo](#) has performed process name checks and has monitored applications. <sup>[1]</sup>

Enterprise [T1055 .001 Process Injection: Dynamic-link Library Injection](#)

[Metamorfo](#) has injected a malicious DLL into the Windows Media Player process (wmplayer.exe). <sup>[1]</sup>

Enterprise [T1113 Screen Capture](#)

[Metamorfo](#) can collect screenshots of the victim's machine. <sup>[3][2]</sup>

Enterprise [T1129 Shared Modules](#)

[Metamorfo](#) had used AutoIt to load and execute the DLL payload. <sup>[4]</sup>

Enterprise [T1518 Software Discovery](#)

[Metamorfo](#) has searched the compromised system for banking applications. <sup>[3][2]</sup>

[.001 Security Software Discovery](#)

[Metamorfo](#) collects a list of installed antivirus software from the victim's system. <sup>[4][2]</sup>

Enterprise [T1553 .002 Subvert Trust Controls: Code Signing](#)

[Metamorfo](#) has digitally signed executables using AVAST Software certificates. <sup>[1]</sup>

Enterprise [T1218 .005 System Binary Proxy Execution: Mshta](#)

[Metamorfo](#) has used mshta.exe to execute a HTA payload. <sup>[3]</sup>

[.007 System Binary Proxy Execution: Msiexec](#)

[Metamorfo](#) has used MsiExec.exe to automatically execute files. <sup>[4][2]</sup>

Enterprise [T1082 System Information Discovery](#)

[Metamorfo](#) has collected the hostname and operating system version from the compromised host. <sup>[3][4][2]</sup>

Enterprise [T1033 System Owner/User Discovery](#)

[Metamorfo](#) has collected the username from the victim's machine. <sup>[2]</sup>

Enterprise [T1124 System Time Discovery](#)

[Metamorfo](#) uses JavaScript to get the system time. <sup>[1]</sup>

Enterprise [T1204 .002 User Execution: Malicious File](#)

[Metamorfo](#) requires the user to double-click the executable to run the malicious HTA file or to download a malicious installer. <sup>[3][2]</sup>

Enterprise [T1497 Virtualization/Sandbox Evasion](#)

[Metamorfo](#) has embedded a "vmdetect.exe" executable to identify virtual machines at the beginning of execution. <sup>[1]</sup>

Enterprise [T1102 .001 Web Service: Dead Drop Resolver](#)

[Metamorfo](#) has used YouTube to store and hide C&C server domains. <sup>[2]</sup>

[.003 Web Service: One-Way Communication](#)

[Metamorfo](#) has downloaded a zip file for execution on the system. [\[1\]](#)[\[3\]](#)[\[4\]](#)

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Source: <https://attack.mitre.org/software/S0455>