# Summary

**File Name:** db1666bf21e0ce2110ad319e29edf930a8fec7e2d53b5daa6f4c1eafcea50a79.ex

**File Type:** PE32 executable (GUI) Intel 80386, for MS Windows

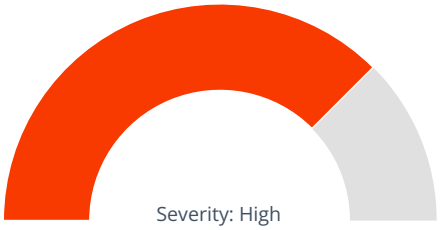
**SHA1:** 2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c

**MD5:** 6b4a58489c8865a8033895d4f12ccd3a

MALWARE

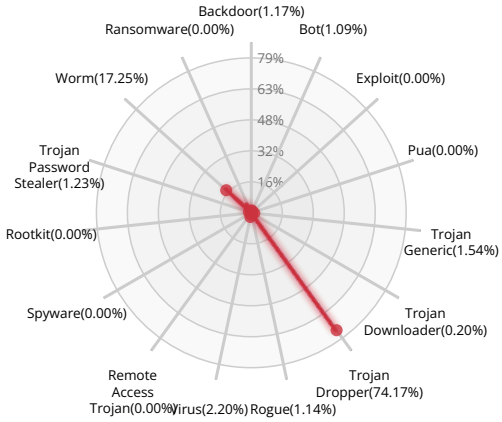
Xcitium Verdict Cloud Final Verdict

## DETECTION SECTION

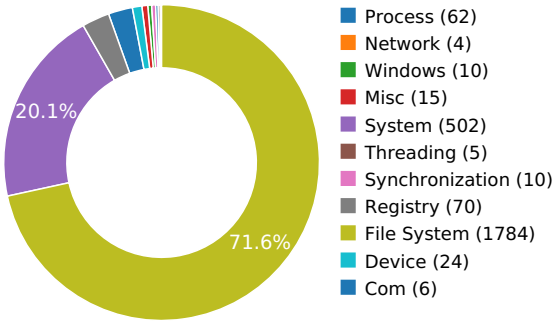



Verdict: Malware

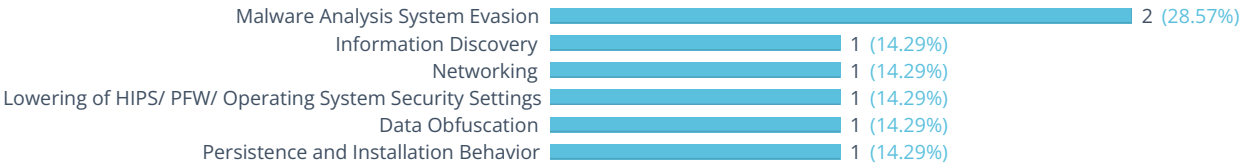
## CLASSIFICATION




## HIGH LEVEL BEHAVIOR DISTRIBUTION




## ACTIVITY OVERVIEW



## Activity Details

### INFORMATION DISCOVERY

Reads data out of its own binary image — Show sources

### NETWORKING

Attempts to connect to a dead IP:Port (1 unique times) — Show sources

### LOWERING OF HIPS/ PFW/ OPERATING SYSTEM SECURITY SETTINGS

Attempts to disable Windows Auto Updates — Show sources

### DATA OBFUSCATION

Drops a binary and executes it — Show sources

### PERSISTENCE AND INSTALLATION BEHAVIOR

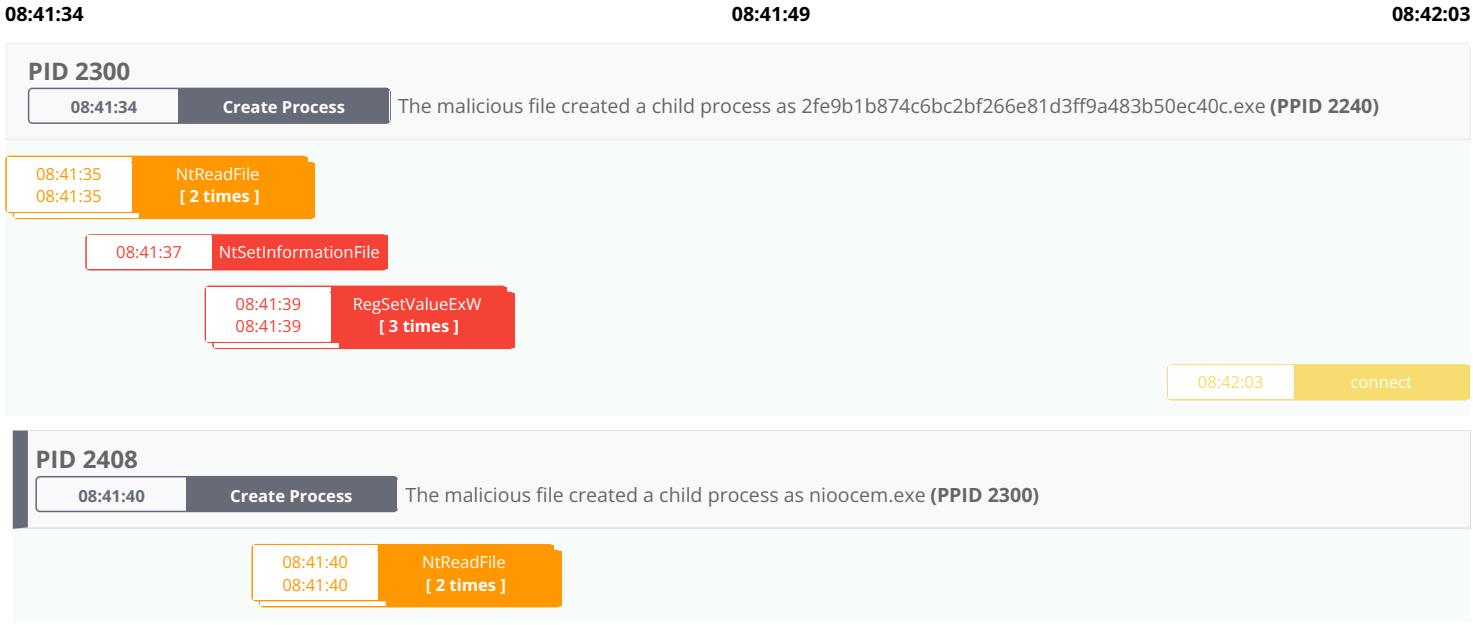
Installs itself for autorun at Windows startup — Show sources

### MALWARE ANALYSIS SYSTEM EVASION

Attempts to modify Explorer settings to prevent hidden files from being displayed — Show sources

Creates a hidden or system file — Show sources

## Behavior Graph



# Behavior Summary

## ACCESSED FILES

| |
|---|
| \Device\KsecDD |
| C:\Users\user\AppData\Local\Temp\2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c.exe.cfg |
| C:\Windows\sysnative\C_932.NLS |
| C:\Windows\sysnative\C_949.NLS |
| C:\Windows\sysnative\C_950.NLS |
| C:\Windows\sysnative\C_936.NLS |
| C:\Users\user\AppData\Local\Temp\2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c.exe |
| C:\Users\user\nioocem.exe |
| \??\MountPointManager |
| \Device\Afd\AsyncSelectHlp |
| C:\Users\user\nioocem.exe.cfg |

## READ REGISTRY KEYS

| |
|---|
| HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\Windows Error Reporting\WMR\Disable |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\SESSION MANAGER\SafeProcessSearchMode |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\932 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\949 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\950 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\936 |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{d35f944c-ffec-11e6-bdeb-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{d35f944c-ffec-11e6-bdeb-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c4-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c4-ccb0-11e5-b7bd-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c5-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c5-ccb0-11e5-b7bd-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c6-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c6-ccb0-11e5-b7bd-806e6f6e6963}\Generation |

## MODIFIED FILES

| |
|---|
| C:\Users\user\nioocem.exe |
| \Device\Afd\AsyncSelectHlp |

## RESOLVED APIS

| |
|---|
| cryptbase.dll.SystemFunction036 |
| uxtheme.dll.ThemeInitApiHook |
| user32.dll.IsProcessDPIAware |
| oleaut32.dll.OleLoadPictureEx |
| oleaut32.dll.DispCallFunc |
| oleaut32.dll.LoadTypeLibEx |
| oleaut32.dll.UnRegisterTypeLib |
| oleaut32.dll.CreateTypeLib2 |
| oleaut32.dll.VarDateFromUdate |
| oleaut32.dll.VarUdateFromDate |
| oleaut32.dll.GetAltMonthNames |
| oleaut32.dll.VarNumFromParseNum |
| oleaut32.dll.VarParseNumFromStr |
| oleaut32.dll.VarDecFromR4 |
| oleaut32.dll.VarDecFromR8 |
| oleaut32.dll.VarDecFromDate |
| oleaut32.dll.VarDecFromI4 |
| oleaut32.dll.VarDecFromCy |
| oleaut32.dll.VarR4FromDec |
| oleaut32.dll.GetRecordInfoFromTypeInfo |
| oleaut32.dll.GetRecordInfoFromGuids |
| oleaut32.dll.SafeArrayGetRecordInfo |
| oleaut32.dll.SafeArraySetRecordInfo |
| oleaut32.dll.SafeArrayGetIID |
| oleaut32.dll.SafeArraySetIID |
| oleaut32.dll.SafeArrayCopyData |
| oleaut32.dll.SafeArrayAllocDescriptorEx |
| oleaut32.dll.SafeArrayCreateEx |
| oleaut32.dll.VarFormat |
| oleaut32.dll.VarFormatDateTime |
| oleaut32.dll.VarFormatNumber |
| oleaut32.dll.VarFormatPercent |
| oleaut32.dll.VarFormatCurrency |
| oleaut32.dll.VarWeekdayName |

| |
|---|
| oleaut32.dll.VarMonthName |
| oleaut32.dll.VarAdd |
| oleaut32.dll.VarAnd |
| oleaut32.dll.VarCat |
| oleaut32.dll.VarDiv |
| oleaut32.dll.VarEqv |
| oleaut32.dll.VarIdiv |
| oleaut32.dll.VarImp |
| oleaut32.dll.VarMod |
| oleaut32.dll.VarMul |
| oleaut32.dll.VarOr |
| oleaut32.dll.VarPow |
| oleaut32.dll.VarSub |
| oleaut32.dll.VarXor |
| oleaut32.dll.VarAbs |
| oleaut32.dll.VarFix |
| oleaut32.dll.VarInt |
| oleaut32.dll.VarNeg |
| oleaut32.dll.VarNot |
| oleaut32.dll.VarRound |
| oleaut32.dll.VarCmp |
| oleaut32.dll.VarDecAdd |
| oleaut32.dll.VarDecCmp |
| oleaut32.dll.VarBstrCat |
| oleaut32.dll.VarCyMull4 |
| oleaut32.dll.VarBstrCmp |
| ole32.dll.CoCreateInstanceEx |
| ole32.dll.CLSIDFromProgIDEx |
| sxs.dll.SxsOleAut32MapIIDOrCLSIDToTypeLibrary |
| user32.dll.GetSystemMetrics |
| user32.dll.MonitorFromWindow |
| user32.dll.MonitorFromRect |
| user32.dll.MonitorFromPoint |
| user32.dll.EnumDisplayMonitors |

| |
|---|
| user32.dll.GetMonitorInfoA |
| user32.dll.GetKeyboardLayoutList |
| kernel32.dll.GetModuleFileNameW |
| user32.dll.CallWindowProcW |
| kernel32.dll.Sleep |
| shell32.dll.SHGetSpecialFolderPathW |
| advapi32.dll.GetUserNameW |
| kernel32.dll.OpenMutexW |

## REGISTRY KEYS

| |
|---|
| HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\Windows Error Reporting\WMR |
| HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\Microsoft\Windows\Windows Error Reporting\WMR\Disable |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\SESSION MANAGER\SafeProcessSearchMode |
| HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Nls\Codepage |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\932 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\949 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\950 |
| HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Control\Nls\CodePage\936 |
| HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\VBA\Monitors |
| HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\ShellCompatibility\Applications\2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c.exe |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{d35f944c-ffec-11e6-bdeb-806e6f6e6963}\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{d35f944c-ffec-11e6-bdeb-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{d35f944c-ffec-11e6-bdeb-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c4-ccb0-11e5-b7bd-806e6f6e6963}\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c4-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c4-ccb0-11e5-b7bd-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c5-ccb0-11e5-b7bd-806e6f6e6963}\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c5-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c5-ccb0-11e5-b7bd-806e6f6e6963}\Generation |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c6-ccb0-11e5-b7bd-806e6f6e6963}\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c6-ccb0-11e5-b7bd-806e6f6e6963}\Data |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\MountPoints2\CPC\Volume\{2400a2c6-ccb0-11e5-b7bd-806e6f6e6963}\Generation |

| |
|---|
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run\nioocem |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced\ |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced\ShowSuperHidden |
| HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU |
| HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate |

## READ FILES

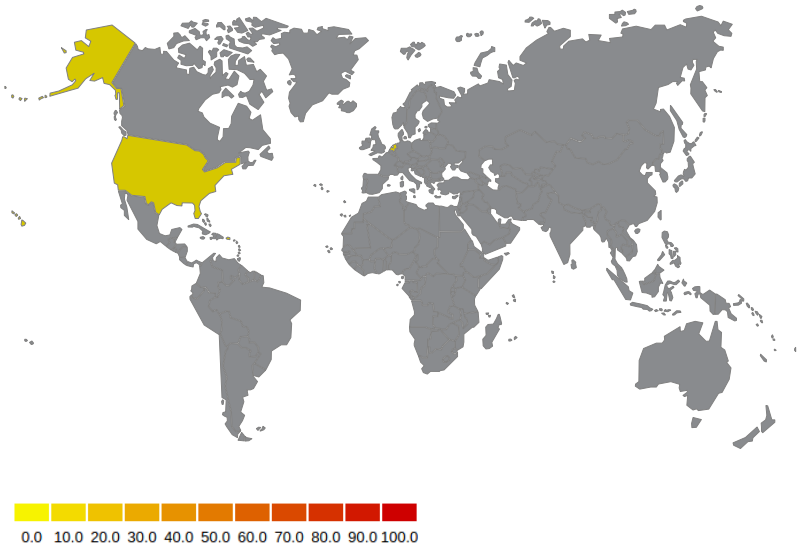
| |
|---|
| \Device\KsecDD |
| C:\Users\user\AppData\Local\Temp\2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c.exe |
| \Device\Afd\AsyncSelectHlp |
| C:\Users\user\nioocem.exe |

## MODIFIED REGISTRY KEYS

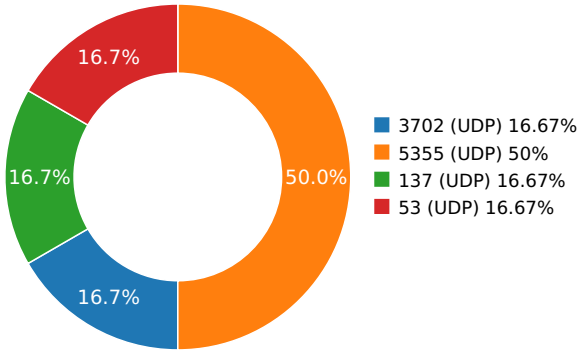
| |
|---|
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Run\nioocem |
| HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Advanced\ShowSuperHidden |
| HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU |
| HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU\NoAutoUpdate |

## Network Behavior

### CONTACTED IPS




### NETWORK PORT DISTRIBUTION




| Name | IP | Country | ASN | ASN Name | Trigger Process Type |
|---|---|---|---|---|---|
| | 8.8.4.4 | United States | 15169 | Level 3 Parent, LLC | Malware Process |
| | 77.247.183.155 | Netherlands | 43350 | Customer 1820 | Malware Process |
| ns1.musiczipz.com | 216.245.214.84 | United States | 46475 | Limestone Networks, Inc. | Malware Process |

### DNS QUERIES

| Request | Type |
|---|---|
| ns1.musiczipz.com | A |
| **Answers**<br>- 77.247.183.155 (A) | |

### UDP PACKETS

| Call Time During Execution(sec) | Source IP | Dest IP | Dest Port |
|---|---|---|---|
| 3.16874909401 | Sandbox | 224.0.0.252 | 5355 |
| 3.20888805389 | Sandbox | 192.168.56.255 | 137 |
| 3.21701812744 | Sandbox | 224.0.0.252 | 5355 |
| 3.22019004822 | Sandbox | 239.255.255.250 | 3702 |
| 5.81230807304 | Sandbox | 224.0.0.252 | 5355 |
| 14.8288121223 | Sandbox | 8.8.4.4 | 53 |

DETAILED FILE INFO

## CREATED / DROPPED FILES

| FILE PATH | TYPE AND HASHES |
|---|---|
| **C:\Users\User\Nioocem.Exe** | **Type :** PE32 executable (GUI) Intel 80386, for MS Windows<br>**MD5 :** ba77f63da2dc9c435c832fdd27a416f1<br>**SHA-1 :** 591dd1bcd069a88612673a083e3c3473bebb32da<br>**SHA-256 :** 3b4007cb265448cb3b9611d80d4f5578c94d578(<br>**SHA-512 :** 06a1bccbf7fe4aa2bbd9e9c655656a61eae9bc1a!<br>**Size :** 315.392 Kilobytes. |

## MATCH YARA RULES

| MATCH RULES |
|---|

## STATIC FILE INFO

| | |
|---|---|
| **File Name:** | db1666bf21e0ce2110ad319e29edf930a8fec7e2d53b5daa6f4c1eafcea50a79.ex |
| **File Type:** | PE32 executable (GUI) Intel 80386, for MS Windows |
| **SHA1:** | 2fe9b1b874c6bc2bf266e81d3ff9a483b50ec40c |
| **MD5:** | 6b4a58489c8865a8033895d4f12ccd3a |
| **First Seen Date:** | 2023-07-07 11:58:41.254154 ( about 16 hours ago ) |
| **Number Of Clients Seen:** | 3 |
| **Last Analysis Date:** | 2023-07-07 11:58:41.254154 ( about 16 hours ago ) |
| **Human Expert Analysis Date:** | 2023-07-07 23:16:13.355546 ( about 5 hours ago ) |
| **Human Expert Analysis Result:** | Malware |

DETAILED FILE INFO

## ADDITIONAL FILE INFORMATION

### PE Headers

| PROPERTY | VALUE |
|---|---|
| Magic Literal Enum | 3 |
| File Type Enum | 6 |
| Debug Artifacts | [] |
| Number Of Sections | 3 |
| Trid | [] |
| Compilation Time Stamp | 0x4FAD3A0F [Fri May 11 16:10:55 2012 UTC] |
| Entry Point | 0x401220 (.text) |
| Machine Type | Intel 386 or later - 32Bit |
| File Size | 315392 |
| Ssdeep | |
| Sha256 | db1666bf21e0ce2110ad319e29edf930a8fec7e2d53b5daa6f4c1eafcea50a79 |
| Exifinfo | [] |
| Mime Type | application/x-dosexec |
| Imphash | |

### PE Sections

| NAME | VIRTUAL ADDRESS | VIRTUAL SIZE | RAW SIZE | ENTROPY | MD5 |
|---|---|---|---|---|---|
| .text | 0x1000 | 0x2a5f4 | 0x2b000 | 5.15261668063 | b51eeabf470908a19dc8e9aa47405ed4 |
| .data | 0x2c000 | 0x1918 | 0x0 | 0.0 | d41d8cd98f00b204e9800998ecf8427e |
| .rsrc | 0x2e000 | 0x1e410 | 0x1f000 | 5.27536041721 | c676d80a443297261ddb1cf633e335e5 |

## CERTIFICATE VALIDATION

- Certificate Validation is not Applicable ?

## SCREENSHOTS