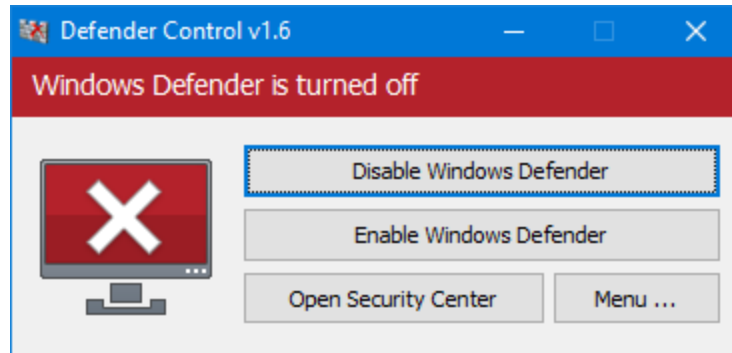


Defender Control

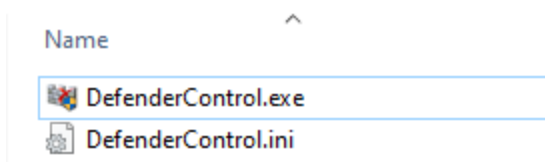


Defender Control is a free software utility we've come across in various intrusions. The creators describe it by saying the following:

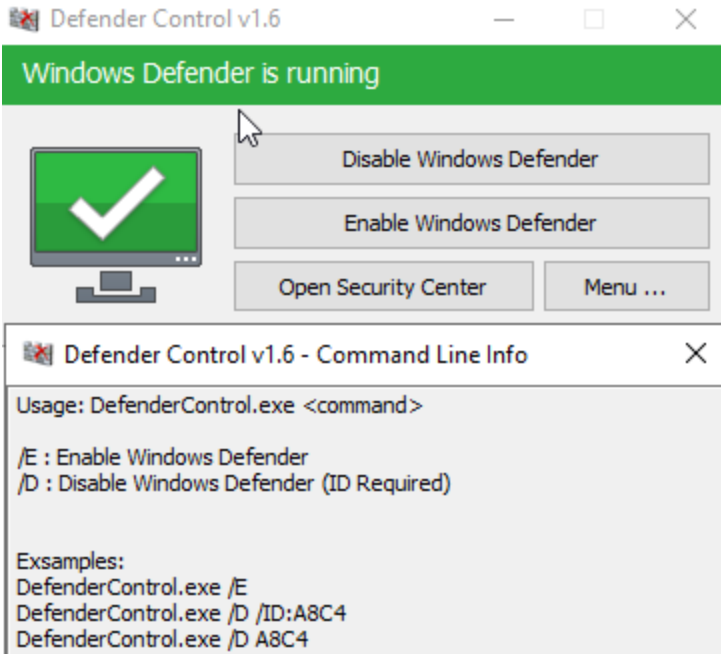
What is certain however is that it [Windows Defender] will annoy users who want to disable it permanently on the computer they are working on. Defender Control is a small Portable freeware which will allow you to disable Windows Defender in Windows 10 completely.

While we have not seen this in many of our recent intrusions with big game ransomware, it is common among the smaller players. Those like Dharma, Phobos, and CrYSIS. In our experience, these groups' main point of entry tends to be exposed RDP. After gaining access, these threat actors often do not take the time or effort to fully scope, or compromise a domain before ransoming, usually a single system. We've seen these threat actors get blocked by Defender and then minutes later Defender Control gets copied over and run.

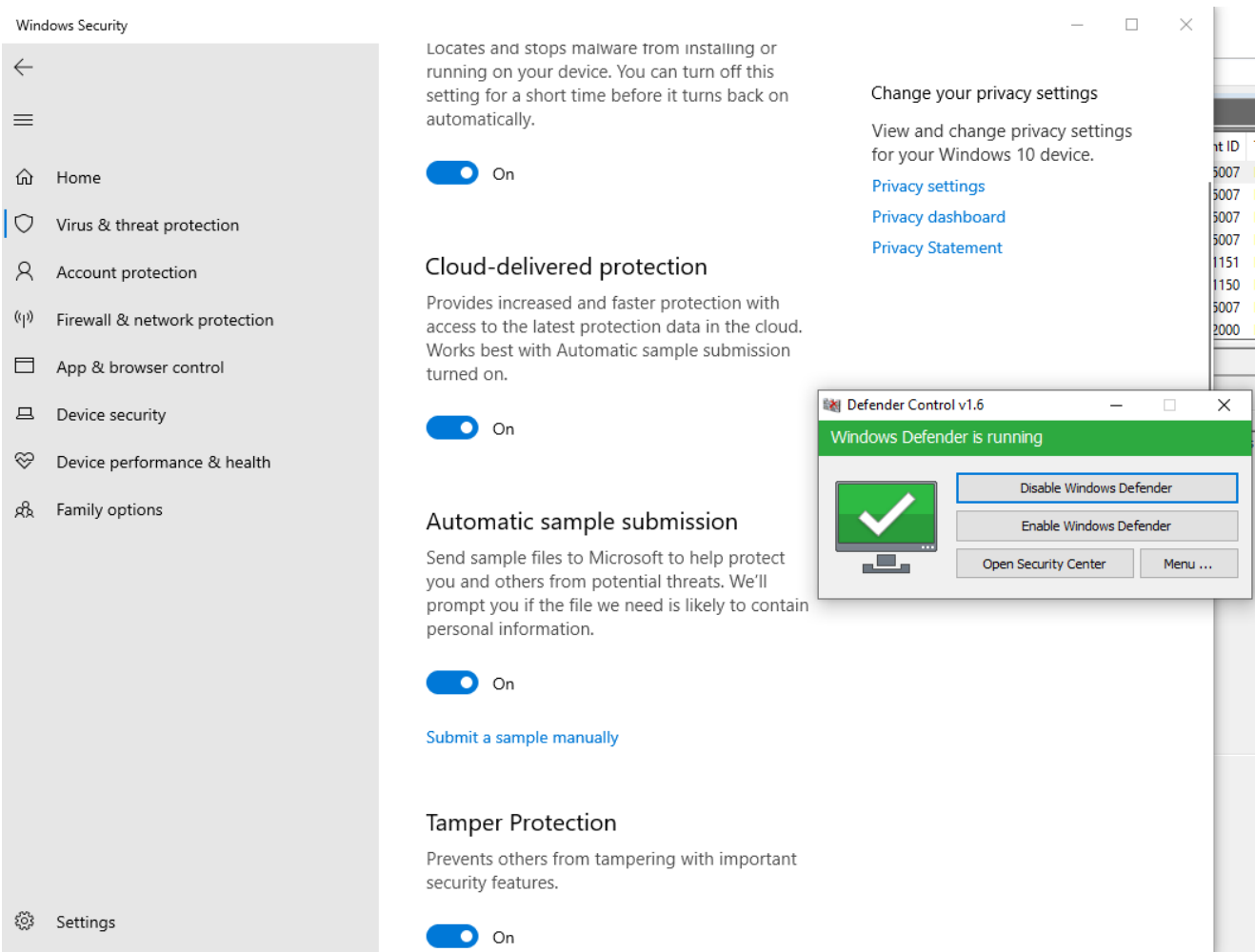
Defender Control is two files, which are a portable executable and a configuration file.



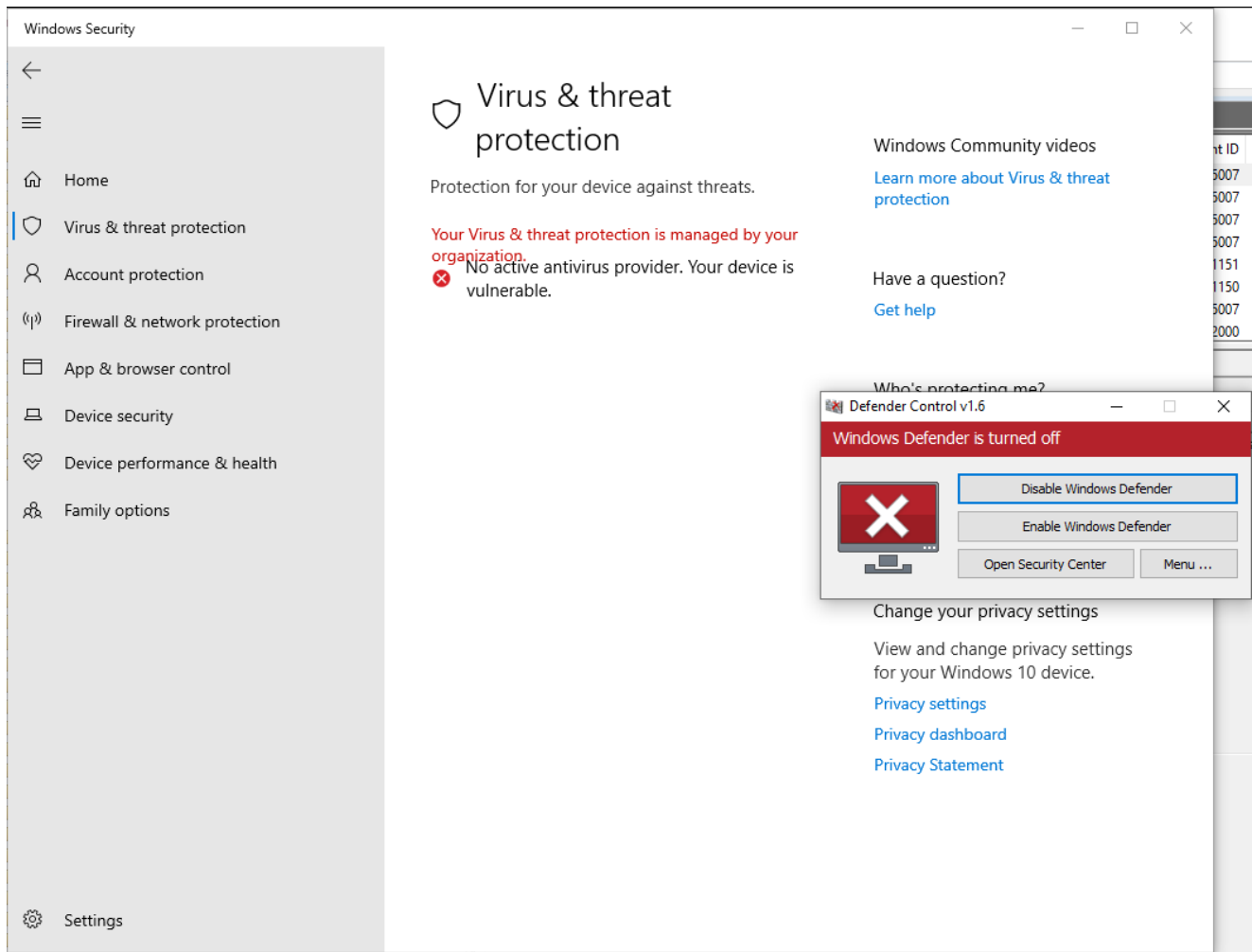
Defender Control can be run via GUI or command line



This is an up to date Windows 10 system, with all Windows Defender controls active.



Let's click Disable Windows Defender.



We can now see that the entire menu has vanished, and Windows tells you that the Organization is managing Defender.

MITRE ATT&CK

Defense Evasion – T1562.001

Defender Control sets a couple registry values to disable Defender including this one:

```
message
Registry value set:
RuleName: technique_id=T1089,technique_name=Disabling Security Tools
EventType: SetValue
UtcTime
ProcessGuid: {2a7dd436-8514-5fd1-e706-00000000e00}
ProcessId: 4628
Image: C:\Users\... Downloads\DefenderControl.exe
TargetObject: HKLM\SOFTWARE\Policies\Microsoft\Windows Defender\DisableAntiSpyware
Details: DWORD (0x00000001)
```

HKLM\SOFTWARE\Policies\Microsoft\Windows Defender\DisableAntiSpyware DWORD (0x00000001)

Defender Control also sets this value to disable the startup of the Defender service:

HKLM\System\CurrentControlSet\Services\WinDefend\Start DWORD (0x00000003)

Which creates:

Event 7040, Service Control Manager

General Details

The start type of the Microsoft Defender Antivirus Boot Driver service was changed from boot start to demand start.

Log Name: System
Source: Service Control Manager
Event ID: 7040
Level: Information
User: SYSTEM
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: [REDACTED]
Task Category: None
Keywords: Classic
Computer: [REDACTED]

Event 7040, Service Control Manager

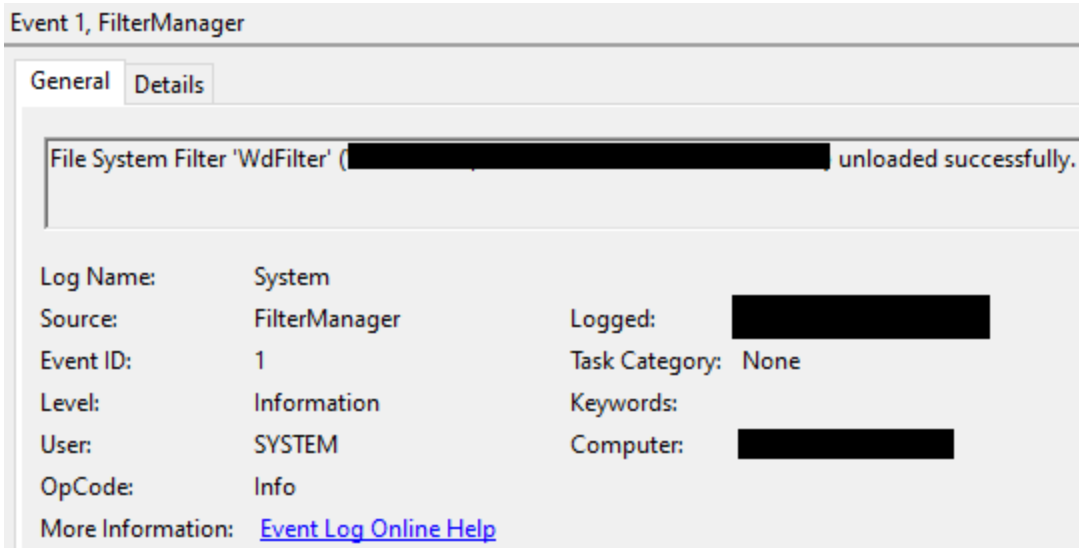
General Details

The start type of the Microsoft Defender Antivirus Mini-Filter Driver service was changed from boot start to demand start.

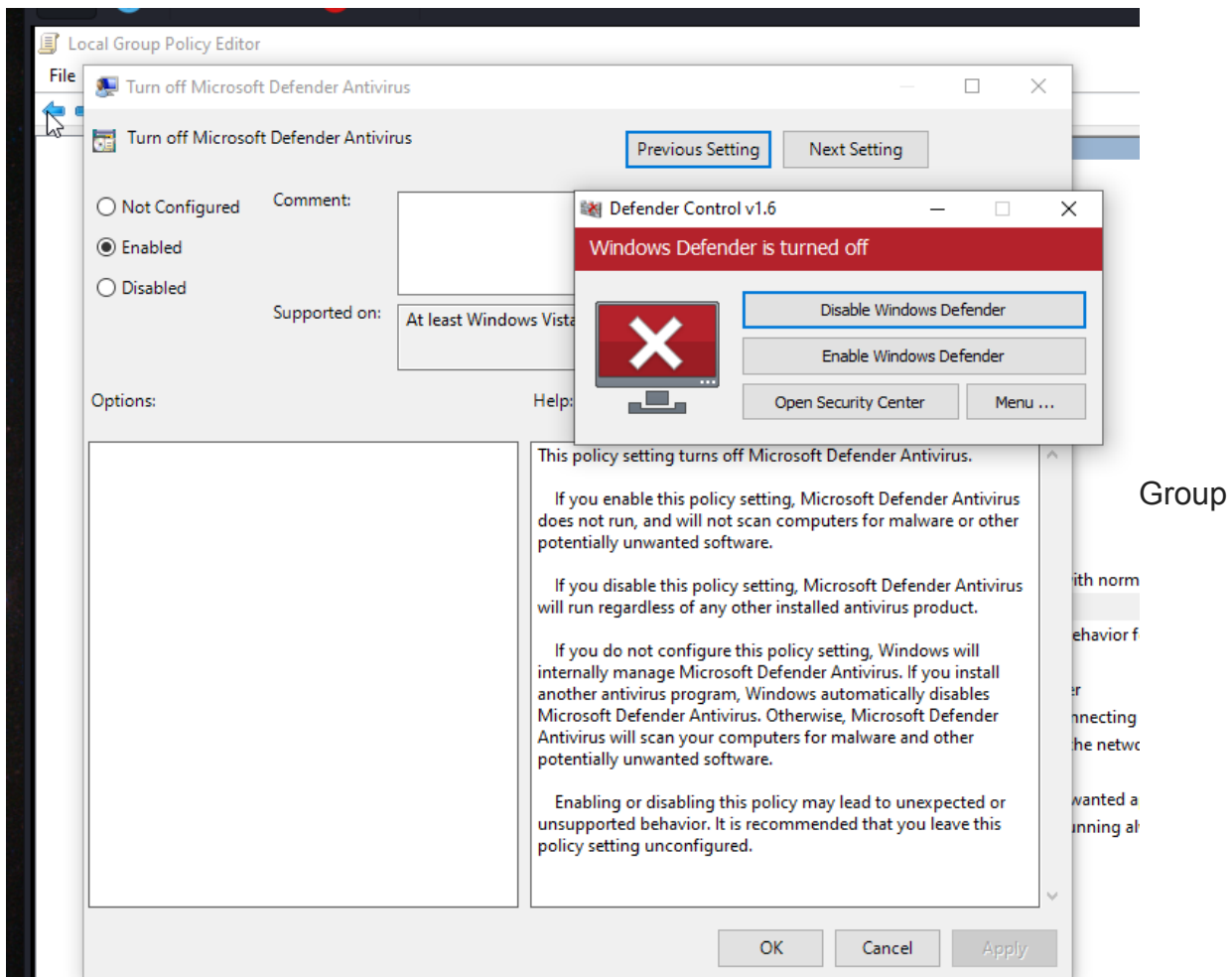
Log Name: System
Source: Service Control Manager
Event ID: 7040
Level: Information
User: SYSTEM
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: [REDACTED]
Task Category: None
Keywords: Classic
Computer: [REDACTED]

Defender Control also unloads the Defender driver:



Here, we can see Defender Control turning off Defender via Local Group Policy Editor:



Policy Management Editor > Administrative templates > Windows components > Microsoft Defender Antivirus > Turn off Microsoft Defender Antivirus

Which creates:

Event 1503, GroupPolicy (Microsoft-Windows-GroupPolicy)

General Details

The Group Policy settings for the user were processed successfully. New settings from 1 Group Policy objects were detected and applied.

Log Name: System
Source: GroupPolicy (Microsoft-Win Logged: ██████████
Event ID: 1503 Task Category: None
Level: Information Keywords:
User: ██████████ Computer: ██████████
OpCode: (1)

Version 1.6 Date: 12.10.2020



4 / 71

4 engines detected this file

a201f7f81277e28c0bdd680427b979aee70e42e8a98c67f11e7c83d02f8fe7ae

DefenderControl.exe

detect-debug-environment invalid-signature overlay peexe runtime-modules signed

Community Score

Enjoy our report? Please consider donating \$1 or more to the project using [Patreon](#). Thank you for your support!

IOCs

File Hashes

DefenderControl.exe

MD5 3a24a7b7c1ba74a5afa50f88ba81d550

SHA-1 5da4de1dbba55774891497297396fd2e5c306cf5

SHA-256 a201f7f81277e28c0bdd680427b979aee70e42e8a98c67f11e7c83d02f8fe7ae

Vhash 085046655d157220b02002300a66z1410043ze2za0030e039z

Authentihash 93c6e1f59f79d000ebad4873c57e716394e359526e241445e0c75d4494b03be2

Imphash aaaa8913c89c8aa4a5d93f06853894da

Rich PE header hash 09983e500a3e996337593d644224f769

SSDEEP

12288:baWzgMg7v3qnCi3ErQohh0F4JCJ8lnydQ79QudhzY0ejoiQv2ju8S0c/J:uaHMv6CDrjRnydQu+ejMZ1

TLSH T14005C012B3D680B6D99378B5297BE32BEB3575194327C4C7A7E02F729F111409B3A3A1

DefenderControl.ini

MD5 4416f7bea63b8af85f5590a3bdf6261b

SHA-1 549b43af5454b32848f500dcbea39acc49be0498

SHA-256 84caed9ee666f5004481e2b6e3233f37adf8106f6d821085caa4dcbd1221b876

SSDEEP

384:J9VBz+Kj3ehWYn/qmt4yJbo3nBaY+BvroUVB5j1vIdo7apRVWpIpClFG:J5B0hJ/nRCaYczoUM6apHd

TLSH T15233001A46EA621AF2F35B10E6F01F734B36BD95687C904C0ED55E8C18E0E609562FFB

YARA

```

/*
YARA Rule Set
Author: The DFIR Report
Date: 2020-12-05
Identifier: DefenderControl
Reference: https://thedfirreport.com
*/

/* Rule Set ----- */

import "pe"

rule DefenderControl_Executable {
meta:
description = "DefenderControl - file DefenderControl.exe"
author = "The DFIR Report"
reference = "https://thedfirreport.com"
date = "2020-12-05"
hash1 = "a201f7f81277e28c0bdd680427b979aee70e42e8a98c67f11e7c83d02f8fe7ae"
strings:
$s1 = "/AutoIt3ExecuteScript" fullword wide
$s2 = "/AutoIt3ExecuteLine" fullword wide
$s3 = "SCRIPTNAME" fullword wide /* base64 encoded string '[email protected]'. */
$s4 = "PROCESSGETSTATS" fullword wide
$s5 = "WINGETPROCESS" fullword wide
$s6 = "SHELLEXECUTE" fullword wide
$s7 = "SHELLEXECUTEWAIT" fullword wide
$s8 = "#NoAutoIt3Execute" fullword wide
$s9 = "PROCESSWAIT" fullword wide
$s10 = "PROCESSEXISTS" fullword wide
$s11 = "HTTPSETUSERAGENT" fullword wide
$s12 = "PROCESSSETPRIORITY" fullword wide
$s13 = "PROCESSORARCH" fullword wide
$s14 = "PROCESSCLOSE" fullword wide
$s15 = "PROCESSWAITCLOSE" fullword wide
$s16 = "PROCESSLIST" fullword wide
$s17 = "SENDCOMMANDID" fullword wide
$s18 = "FILEGETVERSION" fullword wide
$s19 = "LOGONDOMAIN" fullword wide
$s20 = "INETGETBYTESREAD" fullword wide
condition:
uint16(0) == 0x5a4d and filesize < 2000KB and
( pe.imphash() == "aaaa8913c89c8aa4a5d93f06853894da" or all of them )
}

rule DefenderControl_Config_File {
meta:
description = "DefenderControl - file DefenderControl.ini"
author = "The DFIR Report"
reference = "https://thedfirreport.com"
date = "2020-12-05"
hash1 = "84caed9ee666f5004481e2b6e3233f37adf8106f6d821085caa4dcbd1221b876"
strings:
$s1 = "15=\"&Commando Lijn Info\"" fullword wide
$s2 = "15=\"&Command Line Info\"" fullword wide

```



```
$s3 = "15=\&Info de ligne de commande\"" fullword wide
$s4 = "06=\&La protezione in tempo reale " fullword wide
$s5 = "pt logu start" fullword wide
$s6 = "o em Tempo Real est" fullword wide
$s7 = "06=\&La protection en temps r" fullword wide
$s8 = "15=\&Info Linea di Comando\"" fullword wide
$s9 = "15=\&Informatii Comenzi de Linie\"" fullword wide
$s10 = "11=\&Defender postavke\"" fullword wide
$s11 = "15=\&Eingabeaufforderungsinformation\"" fullword wide
$s12 = "01=\&miestas.org\"" fullword wide
$s13 = "02=\&Windows Defender is running\"" fullword wide
$s14 = "05=\&Windows Defender Service nicht gefunden\"" fullword wide
$s15 = "05=\&Windows Defender service niet gevonden\"" fullword wide
$s16 = "05=\&Service Windows Defender introuvable\"" fullword wide
$s17 = "nea de comandos\"" fullword wide
$s18 = "15=\&Inf. da linha de comando\"" fullword wide
$s19 = "; www.sordum.org" fullword wide
$s20 = "11=\&Configura" fullword wide
condition:
uint16(0) == 0xfeff and filesize < 100KB and
8 of them
}
```

Internal case 1011