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ZDI-CAN-29156: New Vulnerability Report

Moderate phoerious published **GHSA-4gr2-cr97-q9fx** on Mar 9

Package

KeePassXC

Affected versions

<=2.7.11

Patched versions

2.7.12

Description

ZDI-CAN-29156: KeePassXC OpenSSL Configuration Uncontrolled Search Path Element Local Privilege Escalation Vulnerability

-- CVSS -----

7.3: AV:L/AC:L/PR:L/UI:R/S:U/C:H/I:H/A:H

-- ABSTRACT -----

TrendAI's Zero Day Initiative has identified a vulnerability affecting the following products:
KeePassXC - KeePassXC

-- VULNERABILITY DETAILS -----

- Version Tested: 2.7.11
- Platform Tested: Windows 11 Enterprise 24H2

Analysis

When KeePassXC checks for updates, it uses OpenSSL, and will ingest a configuration file if present at `C:\Tools\vcpkg\packages\openssl_x64-windows\openssl.cnf`. A low-privileged user can create that folder structure and load an arbitrary DLL into KeePassXC when KeePassXC is run by any user on that machine (and KeePassXC checks for updates). Achieving code execution within the process of another user's instance of KeePassXC results in a catastrophic loss of security for the target user's secrets maintained in KeePassXC.

Repro steps

1. Build the x64 Release configuration of the attached solution, `CmdOnDllMain`. A pre-built `CmdOnDllMain.dll` is also included if you prefer.
2. Log on to the target machine as a low-privileged user.
3. At a command prompt, run: `mkdir C:\Tools\vcpkg\packages\openssl_x64-windows`
4. To the `openssl_x64-windows` folder just created, copy `CmdOnDllMain.dll` and `openssl.cnf` (attached).
5. Now, when logging in as *any* user and updating KeePassXC, the malicious DLL `CmdOnDllMain.dll` is loaded into the process. For demonstration, this DLL simply launches an instance of `cmd.exe`, but this demonstrates arbitrary code execution in the `KeePassXC.exe` process of the target user.

```
Date: 2/3/2026 6:55:37.4281104 PM
Thread: 9956
Class: File System
Operation: CreateFile
Result: SUCCESS
Path: C:\Tools\vcpkg\packages\openssl_x64-windows\openssl.cnf
Duration: 0.0000450
Desired Access: Generic Read
Disposition: Open
Options: Synchronous IO Non-Alert, Non-Directory File
Attributes: N
ShareMode: Read, Write
AllocationSize: n/a
OpenResult: Opened

Description: KeePassXC
Company: KeePassXC Team
Name: KeePassXC.exe
Version: 2.7.11
Path: C:\Program Files\KeePassXC\KeePassXC.exe
Command Line: "C:\Program Files\KeePassXC\KeePassXC.exe"
PID: 3120
Parent PID: 9220
Session ID: 6
User: [REDACTED]
Auth ID: 00000000:00efd0f3
Architecture: 64-bit
Virtualized: False
Integrity: Medium
Started: 2/3/2026 6:51:43 PM
```



```
Ended: (Running)
Modules:
KeePassXC.exe 0x7ff6bc350000 0x570000 C:\Program Files\KeePassXC\KeePassXC.exe
KeePassXC Team 2.7.11 11/23/2025 5:59:12 PM
d3d9.dll 0x7ffd7a6e0000 0x1b3000 C:\WINDOWS\system32\d3d9.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 4/14/1999 8:31:56 PM
keepassxc-autotype-windows.dll 0x7ffd7a8a0000 0x4d7000 C:\Program
Files\KeePassXC\keepassxc-autotype-windows.dll 11/23/2025 5:59:11 PM
qwindows.dll 0x7ffd7ad80000 0xce000 C:\Program
Files\KeePassXC\plugins\platforms\qwindows.dll The Qt Company Ltd. 5.15.18.0
11/20/2025 7:02:38 AM
harfbuzz.dll 0x7ffd7ae50000 0x126000 C:\Program Files\KeePassXC\harfbuzz.dll
11/20/2025 6:37:25 AM
freetype.dll 0x7ffd7bef0000 0xad000 C:\Program Files\KeePassXC\freetype.dll The
FreeType Project 2.13.3 11/20/2025 6:35:42 AM
libcrypto-3-x64.dll 0x7ffd7bfa0000 0x51a000 C:\Program Files\KeePassXC\libcrypto-
3-x64.dll The OpenSSL Project, https://www.openssl.org/ 3.6.0 11/20/2025
6:33:44 AM
libssl-3-x64.dll 0x7ffd7c4c0000 0xd8000 C:\Program Files\KeePassXC\libssl-3-
x64.dll The OpenSSL Project, https://www.openssl.org/ 3.6.0 11/20/2025 6:33:44 AM
botan-3.dll 0x7ffd7c5a0000 0x601000 C:\Program Files\KeePassXC\botan-3.dll
11/20/2025 6:28:59 AM
Qt5Core.dll 0x7ffd7cbb0000 0x50e000 C:\Program Files\KeePassXC\Qt5Core.dll The
Qt Company Ltd. 5.15.18.0 11/20/2025 6:46:34 AM
Qt5Gui.dll 0x7ffd7d0c0000 0x642000 C:\Program Files\KeePassXC\Qt5Gui.dll The
Qt Company Ltd. 5.15.18.0 11/20/2025 6:48:14 AM
Qt5Widgets.dll 0x7ffd7d710000 0x54a000 C:\Program Files\KeePassXC\Qt5Widgets.dll
The Qt Company Ltd. 5.15.18.0 11/20/2025 7:00:30 AM
Qt5Network.dll 0x7ffd7dc60000 0x144000 C:\Program Files\KeePassXC\Qt5Network.dll
The Qt Company Ltd. 5.15.18.0 11/20/2025 6:47:20 AM
qwindowsvistastyle.dll 0x7ffd811b0000 0x27000 C:\Program
Files\KeePassXC\plugins\styles\qwindowsvistastyle.dll The Qt Company Ltd. 5.15.18.0
11/20/2025 7:01:36 AM
brotlicommon.dll 0x7ffd81580000 0x27000 C:\Program
Files\KeePassXC\brotlicommon.dll 11/20/2025 6:35:25 AM
pcre2-16.dll 0x7ffd81a10000 0x8f000 C:\Program Files\KeePassXC\pcre2-16.dll
11/20/2025 6:34:38 AM
libpng16.dll 0x7ffd823b0000 0x35000 C:\Program Files\KeePassXC\libpng16.dll
11/20/2025 6:34:48 AM
Qt5Svg.dll 0x7ffd823f0000 0x52000 C:\Program Files\KeePassXC\Qt5Svg.dll The Qt
Company Ltd. 5.15.18.0 11/20/2025 7:05:38 AM
brotldec.dll 0x7ffd82500000 0x11000 C:\Program Files\KeePassXC\brotldec.dll
11/20/2025 6:35:26 AM
bz2.dll 0x7ffd82870000 0x17000 C:\Program Files\KeePassXC\bz2.dll
11/20/2025 6:35:18 AM
double-conversion.dll 0x7ffd83090000 0x17000 C:\Program Files\KeePassXC\double-
conversion.dll 11/20/2025 6:38:01 AM
minizip.dll 0x7ffd831d0000 0x11000 C:\Program Files\KeePassXC\minizip.dll
11/20/2025 6:29:32 AM
zlib1.dll 0x7ffd863a0000 0x1a000 C:\Program Files\KeePassXC\zlib1.dll 1.3.1
11/20/2025 6:29:28 AM
WinSCard.dll 0x7ffd9e2b0000 0x42000 C:\WINDOWS\SYSTEM32\WinSCard.dll Microsoft
Corporation 10.0.26100.3323 (WinBuild.160101.0800) 6/9/2002 6:55:48 AM
qsvgicon.dll 0x7ffda1370000 0xe000 C:\Program
Files\KeePassXC\plugins\iconengines\qsvgicon.dll The Qt Company Ltd. 5.15.18.0
11/20/2025 7:05:45 AM
```

```
MSVCP140_1.dll 0x7ffda15b0000 0x9000 C:\WINDOWS\SYSTEM32\MSVCP140_1.dll Microsoft Corporation 14.40.33816.0 5/7/1947 3:49:30 PM
argon2.dll 0x7ffda3350000 0xc000 C:\Program Files\KeePassXC\argon2.dll
11/20/2025 6:18:53 AM
Qt5Concurrent.dll 0x7ffda4310000 0xd000 C:\Program Files\KeePassXC\Qt5Concurrent.dll The Qt Company Ltd. 5.15.18.0 11/20/2025 6:46:43 AM
TextShaping.dll 0x7ffda62f0000 0xb3000 C:\WINDOWS\SYSTEM32\TextShaping.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 2/9/2001 11:49:18 PM
qrencode.dll 0x7ffda6760000 0x10000 C:\Program Files\KeePassXC\qrencode.dll
11/20/2025 6:29:22 AM
dataexchange.dll 0x7ffdad9a0000 0x5a000 C:\WINDOWS\system32\dataexchange.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 3/12/1944 12:17:35 AM
MSVCP140.dll 0x7ffdafc50000 0x8d000 C:\WINDOWS\SYSTEM32\MSVCP140.dll Microsoft Corporation 14.40.33816.0 11/13/1926 4:55:28 AM
SRVCLI.DLL 0x7ffdb0ac0000 0x29000 C:\WINDOWS\SYSTEM32\SRVCLI.DLL Microsoft Corporation 10.0.26100.1150 (WinBuild.160101.0800) 8/8/1977 3:00:31 PM
VCRUNTIME140_1.dll 0x7ffdb1d30000 0xc000 C:\WINDOWS\SYSTEM32\VCRUNTIME140_1.dll Microsoft Corporation 14.40.33816.0 12/28/1977 9:25:30 PM
WINMM.dll 0x7ffdb22a0000 0x35000 C:\WINDOWS\SYSTEM32\WINMM.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 7/24/1946 9:45:06 PM
NETAPI32.dll 0x7ffdb3290000 0x1a000 C:\WINDOWS\SYSTEM32\NETAPI32.dll Microsoft Corporation 10.0.26100.7019 (WinBuild.160101.0800) 6/23/1998 4:31:16 AM
VCRUNTIME140.dll 0x7ffdb3400000 0x1e000 C:\WINDOWS\SYSTEM32\VCRUNTIME140.dll Microsoft Corporation 14.40.33816.0 8/31/2036 12:37:58 PM
VERSION.dll 0x7ffdb4950000 0xb000 C:\WINDOWS\SYSTEM32\VERSION.dll Microsoft Corporation 10.0.26100.1150 (WinBuild.160101.0800) 12/30/1905 8:12:48 PM
textinputframework.dll 0x7ffdb50f0000 0x148000 C:\WINDOWS\SYSTEM32\textinputframework.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 11/12/1988 9:06:44 AM
MPR.dll 0x7ffdb5360000 0x21000 C:\WINDOWS\SYSTEM32\MPR.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 1/1/1911 12:32:44 PM
npmproxy.dll 0x7ffdb8540000 0x19000 C:\Windows\System32\npmproxy.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 7/15/1970 10:55:34 AM
dhcpcsvc.dll 0x7ffdb8d60000 0x23000 C:\Windows\System32\dhcpcsvc.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 7/10/1920 2:19:39 AM
dhcpcsvc6.dll 0x7ffdb8d90000 0x1e000 C:\Windows\System32\dhcpcsvc6.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 10/28/2032 2:17:22 PM
twinapi.appcore.dll 0x7ffdb9690000 0x244000 C:\WINDOWS\system32\twinapi.appcore.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 2/9/2031 11:11:15 PM
netprofm.dll 0x7ffdba260000 0x70000 C:\Windows\System32\netprofm.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 9/19/2029 7:03:39 AM
CoreUIComponents.dll 0x7ffdbac00000 0x2e2000 C:\WINDOWS\SYSTEM32\CoreUIComponents.dll Microsoft Corporation 10.0.26100.7462 11/24/1945 5:39:13 PM
d3d11.dll 0x7ffdbb170000 0x262000 C:\WINDOWS\SYSTEM32\d3d11.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 7/8/1958 1:25:50 AM
directxdatabasehelper.dll 0x7ffdbb580000 0x63000 C:\WINDOWS\SYSTEM32\directxdatabasehelper.dll Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 4/19/1980 5:46:17 PM
qgenericbearer.dll 0x7ffdbb640000 0x10000 C:\Program Files\KeePassXC\plugins\bearer\qgenericbearer.dll The Qt Company Ltd. 5.15.18.0 11/20/2025 7:01:21 AM
dwrite.dll 0x7ffdbbdd0000 0x267000 C:\WINDOWS\system32\dwrite.dll Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 5/2/1963 1:40:19 AM
```

```
CoreMessaging.dll 0x7ffdbd090000 0x127000 C:\WINDOWS\SYSTEM32\CoreMessaging.dll
Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 12/22/2034 7:34:20 PM
WTSAPI32.dll 0x7ffdbd950000 0x29000 C:\WINDOWS\SYSTEM32\WTSAPI32.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 2/3/1966 1:00:15 AM
UxTheme.dll 0x7ffdbd9b0000 0xab000 C:\WINDOWS\SYSTEM32\UxTheme.dll Microsoft
Corporation 10.0.26100.7019 (WinBuild.160101.0800) 10/30/2030 10:22:41 AM
dxcore.dll 0x7ffdbda90000 0x44000 C:\WINDOWS\SYSTEM32\dxcore.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 12/3/2012 9:27:55 AM
dxgi.dll 0x7ffdbdae0000 0x13b000 C:\WINDOWS\SYSTEM32\dxgi.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 5/13/1961 12:58:12 AM
dwmapi.dll 0x7ffdbdc40000 0x30000 C:\WINDOWS\SYSTEM32\dwmapi.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 7/25/2013 8:26:18 PM
windows.storage.dll 0x7ffdbe2f0000 0x85e000
C:\WINDOWS\SYSTEM32\windows.storage.dll Microsoft Corporation 10.0.26100.7019
(WinBuild.160101.0800) 9/17/1926 6:51:27 PM
HID.DLL 0x7ffdbbeb60000 0xf000 C:\WINDOWS\SYSTEM32\HID.DLL Microsoft Corporation
10.0.26100.1 (WinBuild.160101.0800) 6/30/2005 12:07:12 PM
NETUTILS.DLL 0x7ffdbedd0000 0xd000 C:\WINDOWS\SYSTEM32\NETUTILS.DLL Microsoft
Corporation 10.0.26100.1882 (WinBuild.160101.0800) 6/9/1997 2:30:00 AM
IPHLPAPI.DLL 0x7ffdbbec0000 0x34000 C:\WINDOWS\SYSTEM32\IPHLPAPI.DLL Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 4/14/2034 12:47:10 AM
DNSAPI.dll 0x7ffdbbef60000 0x12c000 C:\WINDOWS\SYSTEM32\DNSAPI.dll Microsoft
Corporation 10.0.26100.1591 (WinBuild.160101.0800) 11/4/1976 3:24:08 PM
kernel.appcore.dll 0x7ffdbf460000 0x1b000 C:\WINDOWS\SYSTEM32\kernel.appcore.dll
Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 5/11/2009 2:46:34 PM
ntmarta.dll 0x7ffdbf580000 0x36000 C:\WINDOWS\SYSTEM32\ntmarta.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 12/6/1947 8:41:08 PM
SspiCli.dll 0x7ffdbf700000 0x49000 C:\WINDOWS\SYSTEM32\SspiCli.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 12/5/2012 1:31:13 PM
USERENV.dll 0x7ffdbfa80000 0x2b000 C:\WINDOWS\SYSTEM32\USERENV.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 9/14/1912 7:09:03 AM
CRYPTBASE.DLL 0x7ffdbfcb0000 0xc000 C:\WINDOWS\SYSTEM32\CRYPTBASE.DLL Microsoft
Corporation 10.0.26100.7623 (WinBuild.160101.0800) 7/22/2015 6:45:45 PM
WINSTA.dll 0x7ffdc0460000 0x64000 C:\WINDOWS\SYSTEM32\WINSTA.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 6/17/1999 2:56:00 AM
UMPDC.dll 0x7ffdc0510000 0x14000 C:\WINDOWS\SYSTEM32\UMPDC.dll Microsoft
Corporation 10.0.26100.7019 (WinBuild.160101.0800) 4/29/2024 3:46:24 PM
powrprof.dll 0x7ffdc0530000 0x5e000 C:\WINDOWS\SYSTEM32\powrprof.dll Microsoft
Corporation 10.0.26100.4202 (WinBuild.160101.0800) 6/26/1924 1:25:39 PM
profapi.dll 0x7ffdc05d0000 0x29000 C:\WINDOWS\SYSTEM32\profapi.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 6/15/1979 9:32:34 AM
wintypes.dll 0x7ffdc06b0000 0x16a000 C:\WINDOWS\System32\wintypes.dll
Microsoft Corporation 10.0.26100.6725 (WinBuild.160101.0800) 1/21/1975 1:29:23 PM
msvc_p_win.dll 0x7ffdc0820000 0xa3000 C:\WINDOWS\System32\msvc_p_win.dll Microsoft
Corporation 10.0.26100.7623 (WinBuild.160101.0800) 6/8/1902 7:37:03 PM
CRYPT32.dll 0x7ffdc08d0000 0x177000 C:\WINDOWS\System32\CRYPT32.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 10/13/1973 11:48:52 PM
win32u.dll 0x7ffdc0a50000 0x27000 C:\WINDOWS\System32\win32u.dll Microsoft
Corporation 10.0.26100.7623 (WinBuild.160101.0800) 9/5/1987 4:37:14 PM
gdi32full.dll 0x7ffdc0a80000 0x12c000 C:\WINDOWS\System32\gdi32full.dll
Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 7/23/1987 4:04:26 PM
KERNELBASE.dll 0x7ffdc0bb0000 0x3ef000 C:\WINDOWS\System32\KERNELBASE.dll
Microsoft Corporation 10.0.26100.7309 (WinBuild.160101.0800) 1/16/2007 5:32:31 PM
bcryptPrimitives.dll 0x7ffdc1100000 0xa5000
C:\WINDOWS\System32\bcryptPrimitives.dll Microsoft Corporation 10.0.26100.7623
(WinBuild.160101.0800) 8/4/1988 6:58:34 AM
```

```

ucrtbody.dll 0x7ffdc11b0000 0x14b000 C:\WINDOWS\System32\ucrtbody.dll
Microsoft Corporation 10.0.26100.7623 (WinBuild.160101.0800) 6/17/2014 11:21:50 AM
GDI32.dll 0x7ffdc1300000 0x2b000 C:\WINDOWS\System32\GDI32.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 5/2/2028 10:35:33 AM
KERNEL32.DLL 0x7ffdc1440000 0xc9000 C:\WINDOWS\System32\KERNEL32.DLL Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 11/8/1948 12:22:55 PM
SETUPAPI.dll 0x7ffdc1510000 0x48a000 C:\WINDOWS\System32\SETUPAPI.dll
Microsoft Corporation 10.0.26100.1 (WinBuild.160101.0800) 8/29/1910 7:16:22 AM
RPCRT4.dll 0x7ffdc19a0000 0x118000 C:\WINDOWS\System32\RPCRT4.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 10/25/1924 10:13:55 PM
shlwapi.dll 0x7ffdc1ac0000 0x66000 C:\WINDOWS\System32\shlwapi.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 7/2/2003 10:38:12 AM
WS2_32.dll 0x7ffdc1b50000 0x74000 C:\WINDOWS\System32\WS2_32.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 6/18/1957 6:19:34 PM
USER32.dll 0x7ffdc1bd0000 0x1c5000 C:\WINDOWS\System32\USER32.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 4/7/1906 2:52:26 AM
ADVAPI32.dll 0x7ffdc1da0000 0xb4000 C:\WINDOWS\System32\ADVAPI32.dll Microsoft
Corporation 10.0.26100.3624 (WinBuild.160101.0800) 9/23/1963 11:57:30 AM
combase.dll 0x7ffdc1e60000 0x386000 C:\WINDOWS\System32\combase.dll Microsoft
Corporation 10.0.26100.6725 (WinBuild.160101.0800) 9/28/1935 6:04:03 AM
MSCTF.dll 0x7ffdc2300000 0x15e000 C:\WINDOWS\System32\MSCTF.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 9/3/2006 2:01:48 PM
clbcatq.dll 0x7ffdc24c0000 0xb0000 C:\WINDOWS\System32\clbcatq.dll Microsoft
Corporation 2001.12.10941.16384 (WinBuild.160101.0800) 11/21/1965 10:14:29 AM
sechost.dll 0x7ffdc2580000 0xa6000 C:\WINDOWS\System32\sechost.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 6/12/1940 6:07:49 PM
OLEAUT32.dll 0x7ffdc2630000 0xd6000 C:\WINDOWS\System32\OLEAUT32.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 8/25/1907 9:16:08 AM
IMM32.DLL 0x7ffdc2920000 0x31000 C:\WINDOWS\System32\IMM32.DLL Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 9/22/1968 7:11:56 PM
SHELL32.dll 0x7ffdc2a50000 0x753000 C:\WINDOWS\System32\SHELL32.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 5/9/1910 7:08:17 AM
ole32.dll 0x7ffdc31c0000 0x197000 C:\WINDOWS\System32\ole32.dll Microsoft
Corporation 10.0.26100.6725 (WinBuild.160101.0800) 8/6/1952 12:20:45 PM
shcore.dll 0x7ffdc3360000 0xf5000 C:\WINDOWS\System32\shcore.dll Microsoft
Corporation 10.0.26100.1 (WinBuild.160101.0800) 2/13/2034 12:05:08 AM
NSI.dll 0x7ffdc3460000 0xa000 C:\WINDOWS\System32\NSI.dll Microsoft Corporation
10.0.26100.7623 (WinBuild.160101.0800) 1/14/1910 8:30:58 AM
msvcrt.dll 0x7ffdc3470000 0xa9000 C:\WINDOWS\System32\msvcrt.dll Microsoft
Corporation 7.0.26100.7623 (WinBuild.160101.0800) 5/7/1966 11:05:07 PM
ntdll.dll 0x7ffdc3560000 0x267000 C:\WINDOWS\SYSTEM32\ntdll.dll Microsoft
Corporation 10.0.26100.7309 (WinBuild.160101.0800) 8/10/2018 12:48:14 PM

```

```

0 FLTMRG.SYS FltpPerformPreCallbacksWorker + 0x58f 0xfffff8074ccabaaf
C:\WINDOWS\System32\drivers\FLTMRG.SYS
1 FLTMRG.SYS FltpPassThroughInternal + 0xc0 0xfffff8074ccab1a0
C:\WINDOWS\System32\drivers\FLTMRG.SYS
2 FLTMRG.SYS FltpCreate + 0x6f0 0xfffff8074cd17c40
C:\WINDOWS\System32\drivers\FLTMRG.SYS
3 ntoskrnl.exe IopfCallDriver + 0x5b 0xfffff807bb3913db
C:\WINDOWS\system32\ntoskrnl.exe
4 ntoskrnl.exe IofCallDriver + 0x13 0xfffff807bb391353
C:\WINDOWS\system32\ntoskrnl.exe
5 ntoskrnl.exe IopParseDevice + 0x73b 0xfffff807bb89690b
C:\WINDOWS\system32\ntoskrnl.exe

```

```
6  ntoskrnl.exe  ObpLookupObjectName + 0xe4a 0xffffffff807bb8949aa
C:\WINDOWS\system32\ntoskrnl.exe
7  ntoskrnl.exe  ObOpenObjectByNameEx + 0x223 0xffffffff807bb8926b3
C:\WINDOWS\system32\ntoskrnl.exe
8  ntoskrnl.exe  IopCreateFile + 0x1038 0xffffffff807bb96d728
C:\WINDOWS\system32\ntoskrnl.exe
9  ntoskrnl.exe  NtCreateFile + 0x79 0xffffffff807bb96c6d9
C:\WINDOWS\system32\ntoskrnl.exe
10 ntoskrnl.exe  KiSystemServiceCopyEnd + 0x25 0xffffffff807bb6b5755
C:\WINDOWS\system32\ntoskrnl.exe
11 ntdll.dll  NtCreateFile + 0x14 0x7ffdc36c2664 C:\WINDOWS\SYSTEM32\ntdll.dll
12 KERNELBASE.dll  CreateFileInternal + 0x373 0x7ffdc0bf5fd7
C:\WINDOWS\System32\KERNELBASE.dll
13 KERNELBASE.dll  CreateFileW + 0x97 0x7ffdc0bf78c7
C:\WINDOWS\System32\KERNELBASE.dll
14 ucrtbase.dll  wsopen_nolock + 0xf4 0x7ffdc11e9c3c
C:\WINDOWS\System32\ucrtbase.dll
15 ucrtbase.dll  common_sopen_dispatch<wchar_t> + 0x65 0x7ffdc11e9ac9
C:\WINDOWS\System32\ucrtbase.dll
16 ucrtbase.dll  common_openfile<wchar_t> + 0x5e 0x7ffdc11e96f2
C:\WINDOWS\System32\ucrtbase.dll
17 ucrtbase.dll  common_fsopen<wchar_t> + 0x6c 0x7ffdc11ead44
C:\WINDOWS\System32\ucrtbase.dll
18 libcrypto-3-x64.dll  OPENSSL_DIR_read + 0x53a 0x7ffd7c1cf84a C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
19 libcrypto-3-x64.dll  BIO_new_file + 0x1d 0x7ffd7c0dd7ed C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
20 libcrypto-3-x64.dll  EVP_CIPHER_get_nid + 0x820 0x7ffd7c11b0b0 C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
21 libcrypto-3-x64.dll  CONF_modules_load_file_ex + 0x14a 0x7ffd7c11e1ba
C:\Program Files\KeePassXC\libcrypto-3-x64.dll
22 libcrypto-3-x64.dll  OPENSSL_config + 0xbf 0x7ffd7c11f03f C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
23 libcrypto-3-x64.dll  OPENSSL_init_crypto + 0x674 0x7ffd7c1cca04 C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
24 libcrypto-3-x64.dll  CRYPTO_THREAD_run_once + 0x55 0x7ffd7c1dcb45 C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
25 libcrypto-3-x64.dll  OPENSSL_init_crypto + 0x346 0x7ffd7c1cc6d6 C:\Program
Files\KeePassXC\libcrypto-3-x64.dll
26 libssl-3-x64.dll  OPENSSL_init_ssl + 0x77 0x7ffd7c4d3d97 C:\Program
Files\KeePassXC\libssl-3-x64.dll
27 Qt5Network.dll  QSslEllipticCurve::shortName + 0x2e2b 0x7ffd7dd1c87b
C:\Program Files\KeePassXC\Qt5Network.dll
28 Qt5Network.dll  QSslEllipticCurve::shortName + 0x2d89 0x7ffd7dd1c7d9
C:\Program Files\KeePassXC\Qt5Network.dll
29 Qt5Network.dll  QSslSocket::defaultCiphers + 0xa2 0x7ffd7dd0e0a2 C:\Program
Files\KeePassXC\Qt5Network.dll
30 Qt5Network.dll  QSslConfiguration::defaultConfiguration + 0xe 0x7ffd7dd078de
C:\Program Files\KeePassXC\Qt5Network.dll
31 Qt5Network.dll  QNetworkRequest::sslConfiguration + 0x2c 0x7ffd7dc76fec
C:\Program Files\KeePassXC\Qt5Network.dll
32 Qt5Network.dll  QTcpServer::proxy + 0x13219 0x7ffd7dcb77a9 C:\Program
Files\KeePassXC\Qt5Network.dll
33 Qt5Network.dll  QNetworkAccessManager::createRequest + 0x7c0 0x7ffd7dc66a50
C:\Program Files\KeePassXC\Qt5Network.dll
34 Qt5Network.dll  QNetworkAccessManager::get + 0x1b 0x7ffd7dc673db C:\Program
```

```
Files\KeePassXC\Qt5Network.dll
35 KeePassXC.exe AutoTypeExecutor::~AutoTypeExecutor + 0x95bde 0x7ff6bc3fcb1e
C:\Program Files\KeePassXC\KeePassXC.exe
36 KeePassXC.exe AutoTypeExecutor::~AutoTypeExecutor + 0x162f8 0x7ff6bc37d238
C:\Program Files\KeePassXC\KeePassXC.exe
37 Qt5Core.dll QObject::qt_static_metacall + 0x1270 0x7ffd7cd85780 C:\Program
Files\KeePassXC\Qt5Core.dll
38 Qt5Widgets.dll QAction::activate + 0x130 0x7ffd7d715d50 C:\Program
Files\KeePassXC\Qt5Widgets.dll
39 Qt5Widgets.dll QMenu::actionGeometry + 0x4f6 0x7ffd7d86a3e6 C:\Program
Files\KeePassXC\Qt5Widgets.dll
40 Qt5Widgets.dll QMenu::actionGeometry + 0x2eb 0x7ffd7d86a1db C:\Program
Files\KeePassXC\Qt5Widgets.dll
41 Qt5Widgets.dll QMenu::mousePressEvent + 0xb1 0x7ffd7d86f7b1 C:\Program
Files\KeePassXC\Qt5Widgets.dll
42 Qt5Widgets.dll QWidget::event + 0x12e 0x7ffd7d74716e C:\Program
Files\KeePassXC\Qt5Widgets.dll
43 Qt5Widgets.dll QMenu::event + 0xe6 0x7ffd7d86b946 C:\Program
Files\KeePassXC\Qt5Widgets.dll
44 Qt5Widgets.dll QApplicationPrivate::notify_helper + 0x10d 0x7ffd7d7248bd
C:\Program Files\KeePassXC\Qt5Widgets.dll
45 Qt5Widgets.dll QApplication::notify + 0x736 0x7ffd7d722896 C:\Program
Files\KeePassXC\Qt5Widgets.dll
46 Qt5Core.dll QApplication::notifyInternal2 + 0xbb 0x7ffd7cd6751b
C:\Program Files\KeePassXC\Qt5Core.dll
47 Qt5Widgets.dll QApplicationPrivate::sendMouseEvent + 0x3e6 0x7ffd7d725c16
C:\Program Files\KeePassXC\Qt5Widgets.dll
48 Qt5Widgets.dll QSizePolicy::QSizePolicy + 0x27b9 0x7ffd7d76f6f9 C:\Program
Files\KeePassXC\Qt5Widgets.dll
49 Qt5Widgets.dll QSizePolicy::QSizePolicy + 0xbe1 0x7ffd7d76db21 C:\Program
Files\KeePassXC\Qt5Widgets.dll
50 Qt5Widgets.dll QApplicationPrivate::notify_helper + 0x10d 0x7ffd7d7248bd
C:\Program Files\KeePassXC\Qt5Widgets.dll
51 Qt5Widgets.dll QApplication::notify + 0x1827 0x7ffd7d723987 C:\Program
Files\KeePassXC\Qt5Widgets.dll
52 Qt5Core.dll QApplication::notifyInternal2 + 0xbb 0x7ffd7cd6751b
C:\Program Files\KeePassXC\Qt5Core.dll
53 Qt5Gui.dll QGuiApplicationPrivate::processMouseEvent + 0x92b 0x7ffd7d10a06b
C:\Program Files\KeePassXC\Qt5Gui.dll
54 Qt5Gui.dll QWindowSystemInterface::sendWindowSystemEvents + 0x8b
0x7ffd7d0f06db C:\Program Files\KeePassXC\Qt5Gui.dll
55 Qt5Core.dll QEventDispatcherWin32::processEvents + 0x8b 0x7ffd7cdade3cb
C:\Program Files\KeePassXC\Qt5Core.dll
56 qwindows.dll qt_plugin_query_metadata + 0x1e49 0x7ffd7ade5769 C:\Program
Files\KeePassXC\plugins\platforms\qwindows.dll
57 Qt5Core.dll QEventLoop::exec + 0x1c0 0x7ffd7cd63ab0 C:\Program
Files\KeePassXC\Qt5Core.dll
58 Qt5Core.dll QApplication::exec + 0x154 0x7ffd7cd66494 C:\Program
Files\KeePassXC\Qt5Core.dll
59 KeePassXC.exe KeePassXC.exe + 0xfe89 0x7ff6bc35fe89 C:\Program
Files\KeePassXC\KeePassXC.exe
60 KeePassXC.exe AutoTypeMode::exec + 0x560e6 0x7ff6bc565ca6 C:\Program
Files\KeePassXC\KeePassXC.exe
61 KeePassXC.exe AutoTypeMode::exec + 0x54df2 0x7ff6bc5649b2 C:\Program
Files\KeePassXC\KeePassXC.exe
62 KERNEL32.DLL BaseThreadInitThunk + 0x17 0x7ffdc146e8d7
```

```
C:\WINDOWS\System32\KERNEL32.DLL
63 ntdll.dll RtlUserThreadStart + 0x2c 0x7ffdc35ec53c
C:\WINDOWS\SYSTEM32\ntdll.dll
```

-- CREDIT -----

This vulnerability was discovered by:

Xavier DANEST working with TrendAI Zero Day Initiative

-- FURTHER DETAILS -----

Supporting files:

https://trendmicro-my.sharepoint.com/:u:/p/mai_mostafa/IQDH4VsvK622Rosy4CL_3wO-AXtZnvIX9o7j4Czfz_rTqKs?e=jQHjYQl

If supporting files were contained with this report they are provided within a password protected ZIP file. The password is the ZDI candidate number in the form: ZDI-CAN-XXXX where XXXX is the ID number.

Please confirm receipt of this report. We expect all vendors to remediate ZDI vulnerabilities within 120 days of the reported date. If you are ready to release a patch at any point leading up to the deadline, please coordinate with us so that we may release our advisory detailing the issue. If the 120-day deadline is reached and no patch has been made available we will release a limited public advisory with our own mitigations, so that the public can protect themselves in the absence of a patch. Please keep us updated regarding the status of this issue and feel free to contact us at any time:

Zero Day Initiative

zdi-disclosures@trendmicro.com

The PGP key used for all ZDI vendor communications is available from:

<http://www.zerodayinitiative.com/documents/disclosures-pgp-key.asc>

-- INFORMATION ABOUT THE ZDI -----

Established by TippingPoint and acquired by Trend Micro, the Zero Day Initiative (ZDI) neither re-sells vulnerability details nor exploit code. Instead, upon notifying the affected product vendor, the ZDI provides its Trend Micro TippingPoint customers with zero day protection through its intrusion prevention technology. Explicit details regarding the specifics of the vulnerability are not exposed to any parties until an official vendor patch is publicly available.

Please contact us for further details or refer to:

<http://www.zerodayinitiative.com>

-- DISCLOSURE POLICY -----

Our vulnerability disclosure policy is available online at:

http://www.zerodayinitiative.com/advisories/disclosure_policy/

Severity

Moderate

CVE ID

No known CVE

Weaknesses

▶ CWE-427

Credits



zdi-disclosures

Reporter