

RE: How to install and test custom CSP

Source:

<http://www.derkeiler.com/Newsgroups/microsoft.public.platformsdk.security/2006-04/msg00074.html>

- *From:* hamilton <hamilton@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 11 Apr 2006 20:29:01 -0700
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I use WinDbg's kernel mode on two computers, host and target, and I can use un-signed CSP on target computer. Thanks for advice.

The latest WinDbg is supported local debug mode for XP, but this mode is checked which target DLL is signed or not. So, I get "NTE_BAD_SIGNATURE" error...

Thanks,
hamilton.

"hamilton" wrote:

Thanks for comments.

I'll challenge to clear this problems...
If anyone knows how to test un-signed CSP(details), please give advice.

Thanks,
hamilton

"lelteto" wrote:

I am not familiar with WinDbg's kernel mode but I think you cannot run it on the SAME machine as the kernel debugger is running. That's why I am always using SoftICE instead (it can debug on SAME computer). As I remember Microsoft's kernel debugging requires two computers: one is the debuggee (on which the kernel debugger is running) and another connected where you control the debugger.

Hope somebody will give you more info on how to load the kernel debugger on the computer you want to test your CSP.

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Laszlo Elteto
SafeNet, Inc.

"hamilton" wrote:

Tnanks for comment.

I tried to load KERNEL DEBUGGER on local machine.
But return value is same, "NTE_BAD_SIGNATURE"

I'm not sure that KERNEL DEBUGGER is runnning
successfully or not...
Does KERNEL DEBUGGER is loaded mean starting
WinDbg kernel Debug mode?
Start log is shown below, please give me some coments...

Microsoft (R) Windows Debugger Version 6.6.0003.5
Copyright (c) Microsoft Corporation. All rights reserved.

Connected to Windows XP 2600 x86 compatible target,
ptr64 FALSE
Symbol search path is:
SRV*c:/symbols*<http://msdl.microsoft.com/download/symbols>;srv*c:\Symbols*<http://msdl.m>
Executable search path is:
Windows XP Kernel Version 2600 (Service Pack 2) MP (2
procs) Free x86
compatible
Product: WinNt, suite: TerminalServer SingleUserTS
Built by: 2600.xpsp.050622-1524
Kernel base = 0x804d9000 PsLoadedModuleList =
0x8055e700
Debug session time: Fri Apr 7 19:24:33.593 2006 (GMT+9)
System Uptime: 0 days 0:01:28.300
lkd>

And I want to try another way, "advapi32.dll" is changed, but
cannot find
out "advapi32.dll" which does not check sign...
Please tell advapi32.dll patch for XP sp2(latest version).

Thanks,
hamilton

"elteto" wrote:

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Microsoft changed how test CSPs are used. Instead of test-signing now you will need to load a KERNEL DEBUGGER on the test computer. (You don't need to actually use the debugger – it just has to be loaded.)

Alternatively, you would need a patched advapi32.dll (which doesn't check for the kernel debugger). Please search for this forum with the keyword "advapi32" and you can find several patch instructions for various Windows versions.

Laszlo Elteto
SafeNet, Inc.

"hamilton" wrote:

Hello,
I'm writing a custom CSP based on cspdk, and sign mycsp.dll as following method.

```
"cspSign c mycsp.dll"
```

After that, I verify it and install on target WinXP machine.

```
"cspSign v mycsp.dll"  
"regsvr32 mycsp.dll"
```

It seems to success, because there is no error and I can see my csp in registry editor,
path=...../Defaults/Provider.
But, I cannot call my csp from test code, because error is occurred,
"NTE_BAD_SIGNATURE".

Please help and tell how to install custom csp and check it.

Thanks,

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hamilton