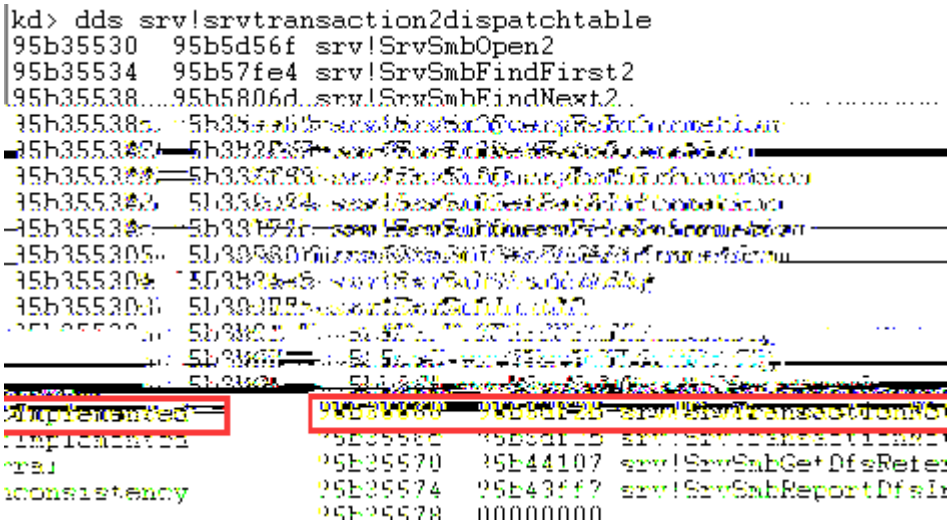
Shadow Brokers NSA DoublePulsar
DoublePulsar

SMB RDP
EternalBlue EternalRomance srv.sys
SrvTransaction2DispatchTable 14 srv.sys
SrvTransaction2DispatchTable 14
SrvTransactionNotImplemented SMB SMB_COM_TRANSACTION2
DoublePulsar
SMB_COM_TRANSACTION2

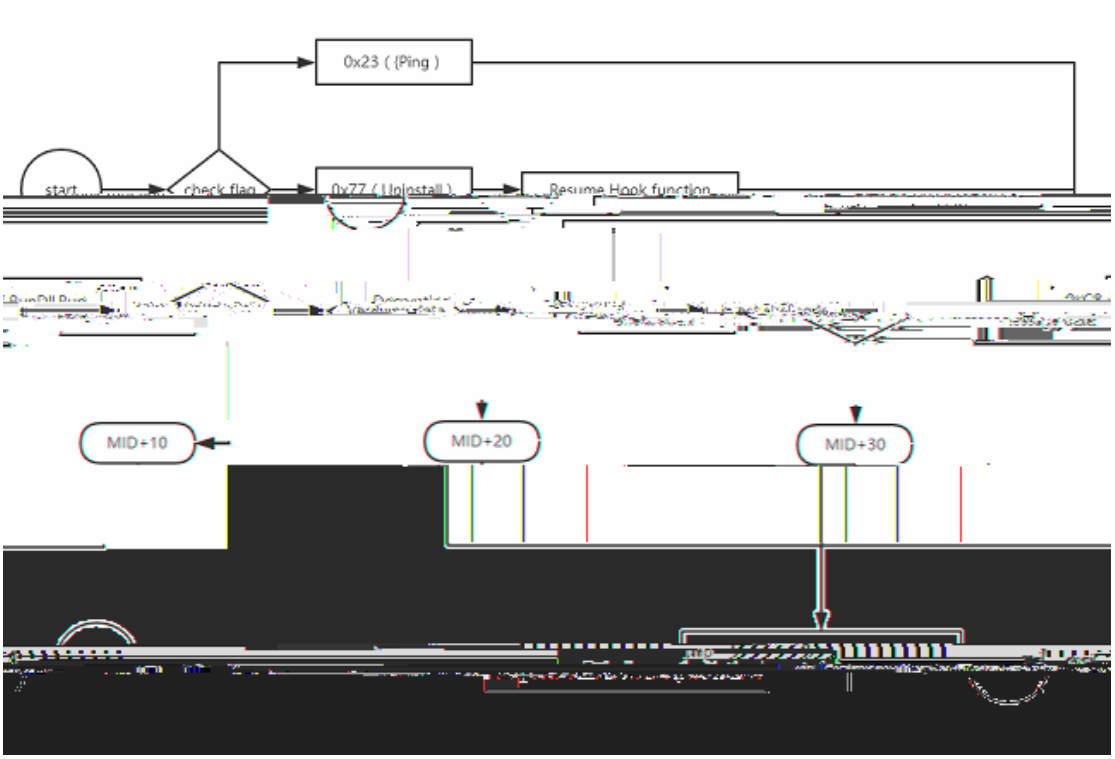
1. SrvTransaction2DispatchTable 14
SrvTransactionNotImplemented



2. SrvTransaction2DispatchTable 14

3.DoublePulsar

OutputInstall	shellcode RunShellcode
Ping	DoublePulsar
RunDLL RunShellcode	shellcode Dll



(1)CheckFlag

SMB_COM_TRANSACTION2

Timeout flag

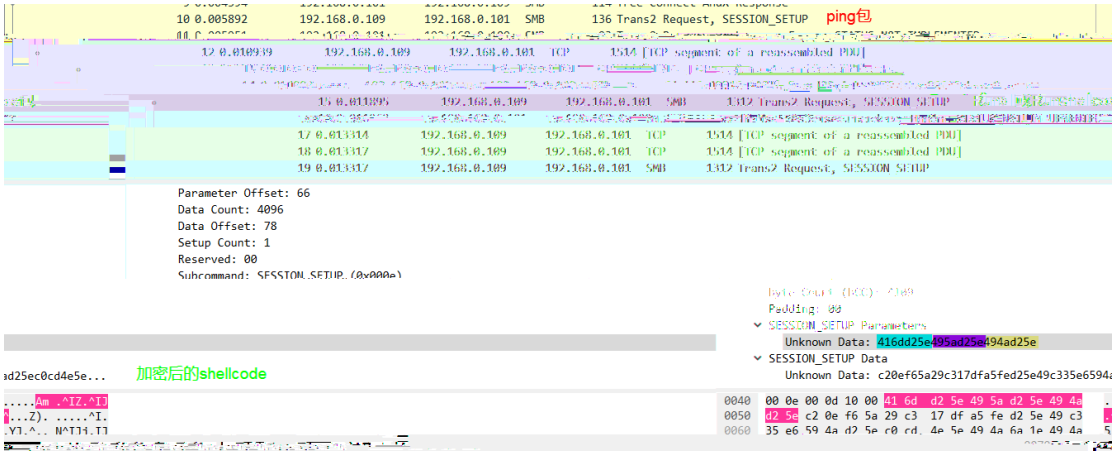
```
seg000:86847194 sub_86847194    proc near               ; CODE XREF: start+30↑p
seg000:86847194                 xor     eax, eax
seg000:86847196                 mov     al, cl
seg000:86847198                 shr     ecx, 8
seg000:8684719B                 add     al, cl
seg000:8684719D                 shr     ecx, 8
seg000:868471A0                 add     al, cl
```

timeout 0x23



0x23	Ping
0x77	
0xc8	shellcode

(



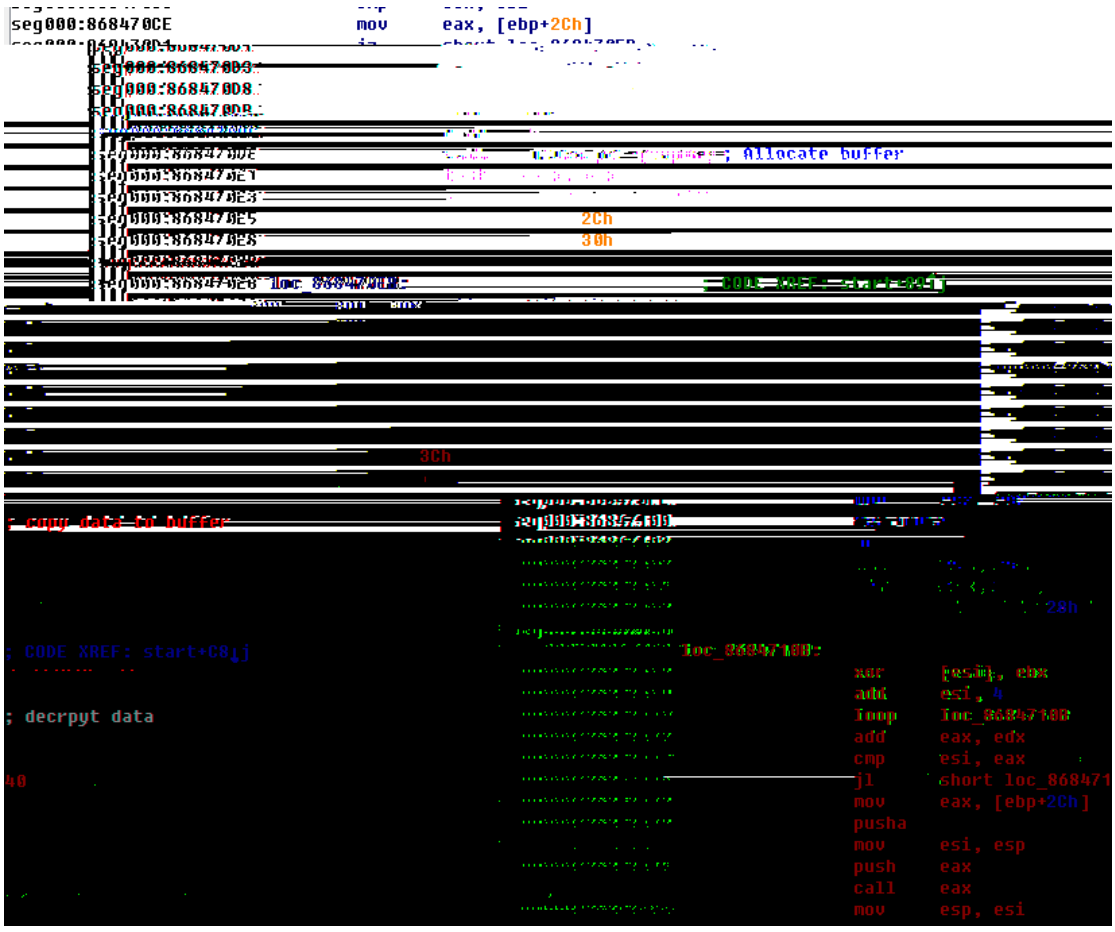
SESSION_SETUP Data shellcode

a. shellcode

```
seg000:868470B1        mov     esi, [eax]      ; shellcode size
seg000:868470B3        xor     esi, [ebp+28h]  ; key
seg000:868470B6        mov     edi, [eax+8]
seg000:868470B9        xor     edi, [ebp+28h]
seg000:868470BC        mov     eax, [eax+4]
seg000:868470BF        xor     eax, [ebp+28h]
```

b. shellcode shellcode

shellcode

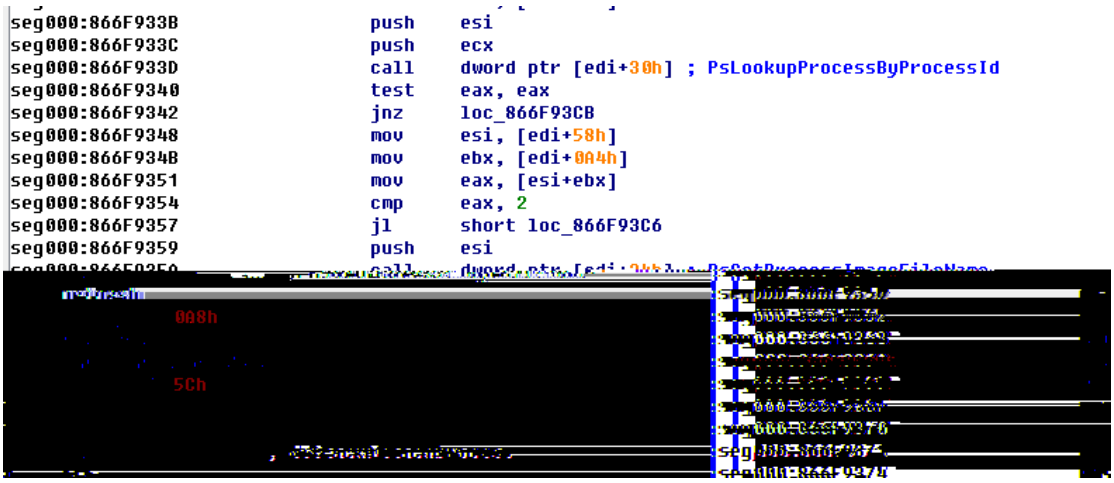


c. Rundll shellcode IDT ntoskrnl.exe

IDT ntoskrnl.exe PE



d. PID lsass.exe



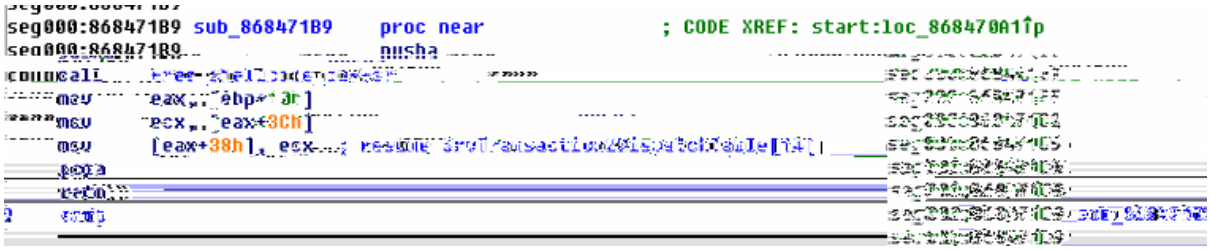
e. APC



(4)Uninstall

0x77

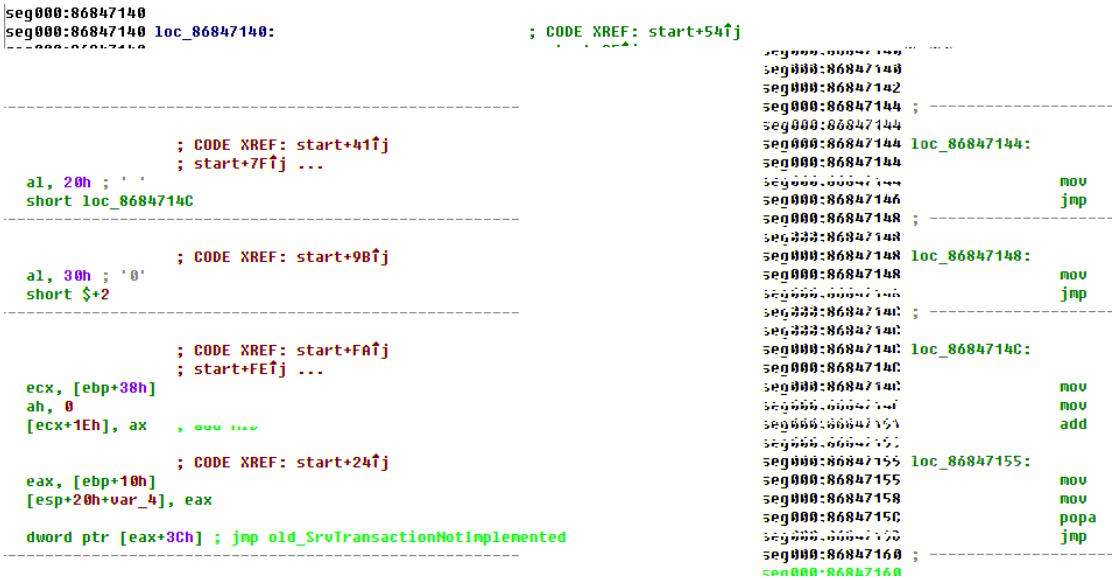
SrvTransaction2DispatchTable



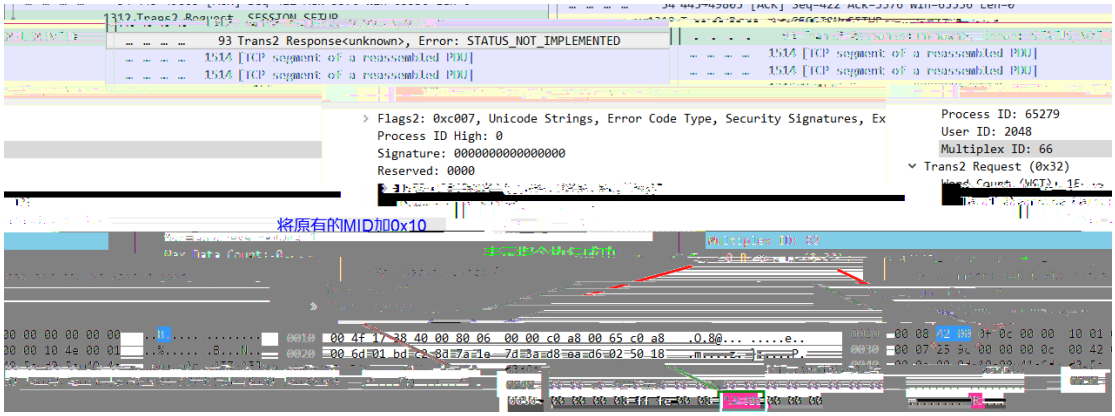
(5)

SrvTransactionNotImplemented

MID



MID+0x10	
MID+0x20	
MID+0x30	



VenusEye

VenusEye

Hedwig Locky

18

Sage 2.0

Office 0day 2016

