



Here, the payload is encrypted in 8.t file

If we analyze EQNEDT32.exe overwritten to recognise the payload, we have the same technics anti emulation with the same value.

In a thread, the process posts in a queue the value 5ACE8D0Ah.

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Anti emulation tricks

```
loc_401B7E:          ; nCmdShow
push     5
mov     ecx, [ebp+hWnd]
push     ecx          ; hWnd
call    ds:ShowWindow
mov     edx, [ebp+hWnd]
push     edx          ; hWnd
call    ds:UpdateWindow
push     0            ; lpThreadId
push     0            ; dwCreationFlags
mov     eax, [ebp+hWnd]
push     eax          ; lpParameter
push     offset StartAddress ; lpStartAddress
push     0            ; dwStackSize
push     0            ; lpThreadAttributes
call    ds:CreateThread
mov     eax, 1
```

Anti emulation tricks

The verification is calling GetMessage() and the value is stored in EAX in the function sub\_401A60.

The comparison is made in the calling function sub\_4027D0.

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```
; Attributes: bp-based frame
; int __stdcall sub_4027D0(HINSTANCE hInstance, int, int, int)
sub_4027D0 proc near

Buffer= word ptr -628h
Filename= word ptr -420h
TempFileName= word ptr -218h
var_10= dword ptr -10h
var_C= dword ptr -0Ch
pNumArgs= dword ptr -8
var_4= dword ptr -4
hInstance= dword ptr 8

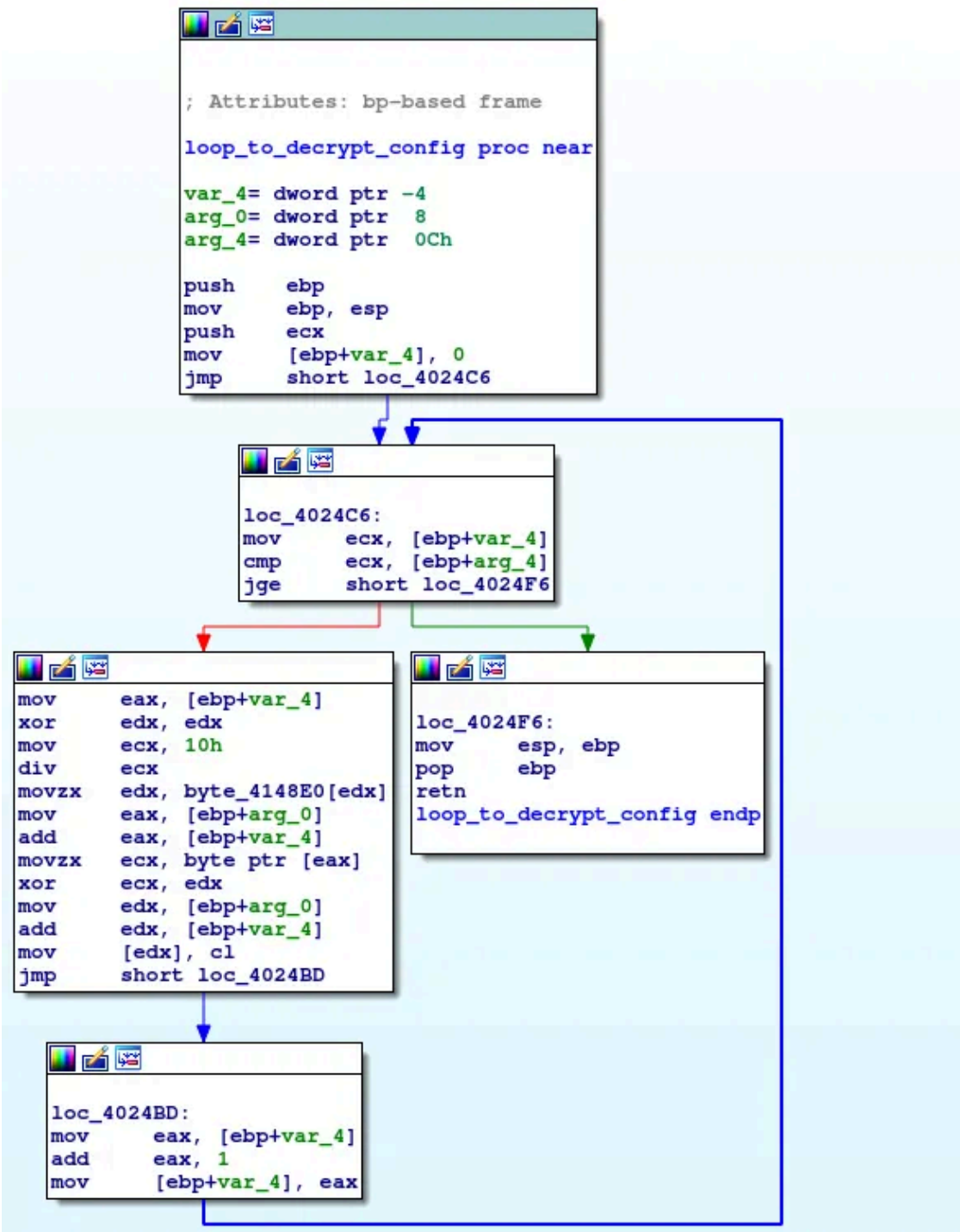
push    ebp
mov     ebp, esp
sub     esp, 628h
mov     [ebp+var_4], 0
mov     [ebp+var_C], 0
mov     eax, [ebp+hInstance]
push    eax          ; hInstance
call    sub_401A60
add     esp, 4
cmp     eax, 5ACE8DOAh
jz     short loc_402802
```

Anti emulation tricks verification

Juste after we found again the loop of decryption for the config.

```
loc_402820:  
push    160h  
push    offset Data  
call    loop_to_decrypt_config  
add     esp, 8  
push    104h          ; nSize  
lea    eax, [ebp+Filename]  
push    eax          ; lpFilename
```

call to loop of decryption

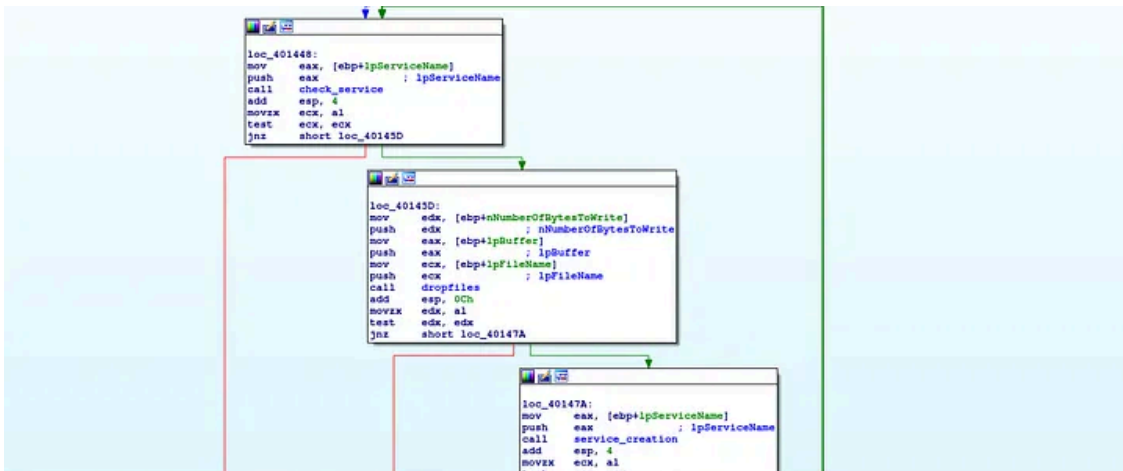


### Loop of decrypting config

It's the same algorithm described: a simple XOR loop with rolling key.

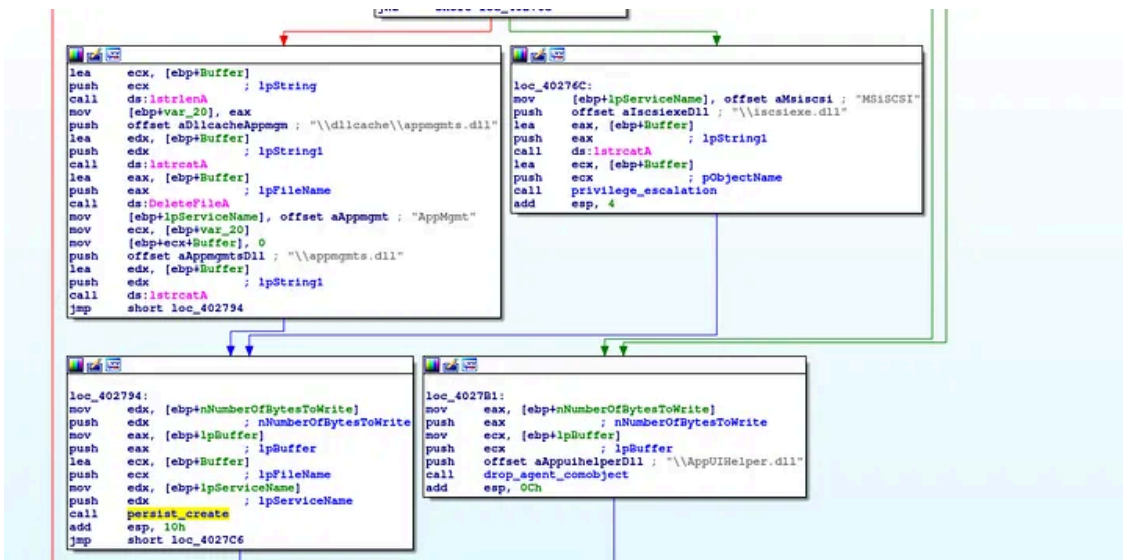
The mechanism of persistent is the same with a service creation just after dropping different files and a privilege escalation.

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We found the same name of the dll files.

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### Persistence and loading agent

The malware overwrite the comobject

{9BA05972-F6A8-11CF-A442-00A0C90A8F39} to execute when this com object is called to make a persistence

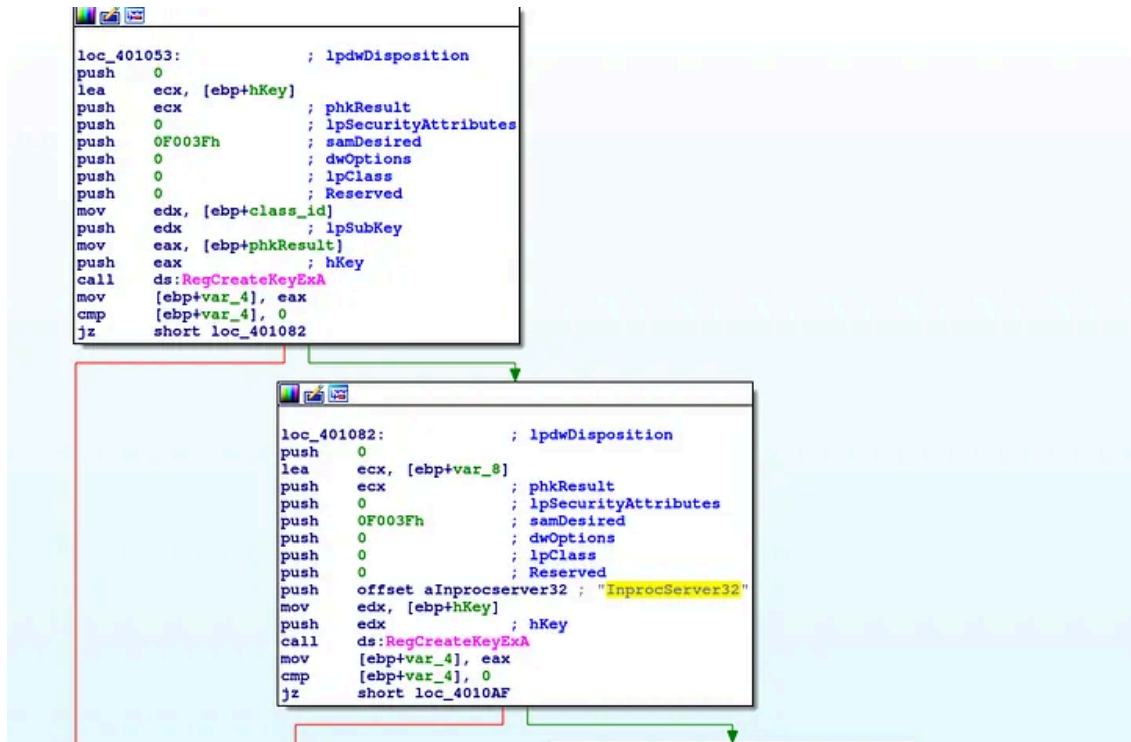
Press enter or click to view image in full size

```

lea     edx, [ebp+pszPath]
push   edx           ; lpString
push   offset clid_class ; "{9BA05972-F6A8-11CF-A442-00A0C90A8F39}"
call   add_comobject

```

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ComObject Adding

All evidences show is the same payload Sisfader RAT.

Threat Intel

The toolset for exploiting the module of equation is the same using of the compromission for Vietnamesees Officials used by Goblin Panda. (APT 1937CN)

If we check the domain contacted by EQNEDT32.exe is kmbk8.hicp.net. This address is a real good pivot. It makes the link with Goblin Panda and SisFader RAT.

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And the infrastructure is very interesting this domains resolved on three IPs:

122.158.140.100, 122.158.140.100 and 103.255.45.200

Theses addresses can permit to found others domains:

Sd123.eicp.net with new IP 180.131.58.9 and cv3sa.gicp.net with new IP 1.188.233.201

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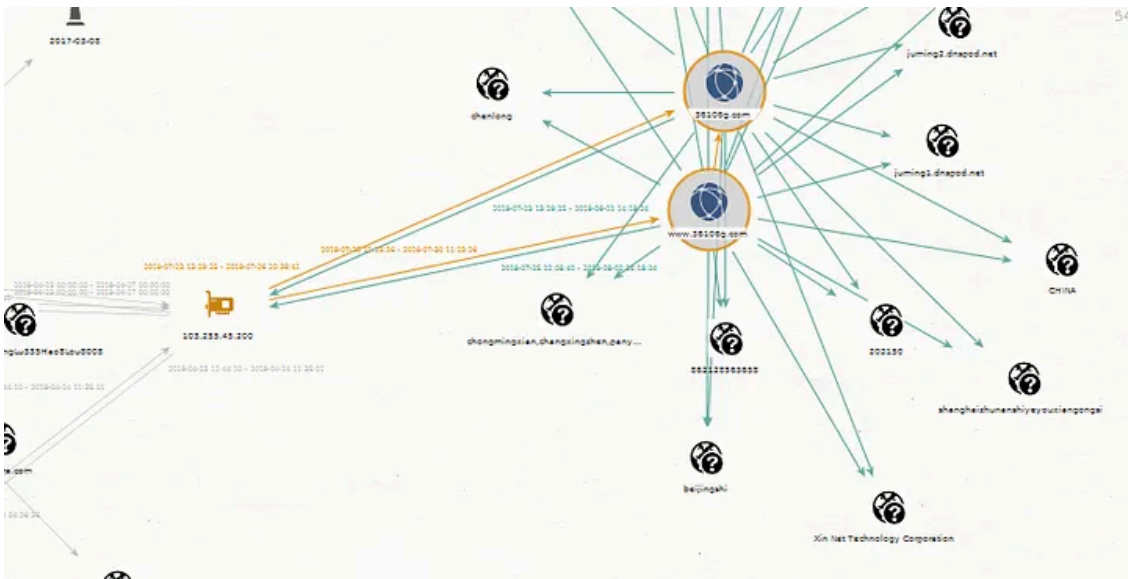
Infrastructure

The Ip Address 103.255.45.200 has two domains:

[www.36106g.com](http://www.36106g.com)

36106g.com

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Infrastructure

All infrastructure is based at Shanghai.

The victims are different than the Vietnamese campaign.

## They targeted Telecom Firms pretending to be the Intelligence Service of Russia (FSB)

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RTFs content

So Gobelin Panda targets like the report of CrowdStrike <https://go.crowdstrike.com/rs/281-OBQ-266/images/ReportGlobalThreatIntelligence.pdf> he telecom industries in Russia.

## Conclusion

Goblin Panda used Sisfader RAT to target the Telecom Firms russian with the same exploitation techniques for Vietnamese Officials. They updated theirs technics than the report of NCC group.

IOCs:

Rtfs:

722e5d3dcc8945f69135dc381a15b5cad9723cd11f7ea20991a3ab867d9428c7

71c94bb0944eb59cb79726b20177fb2cd84bf9b4d33b0efbe9aed58bb2b43e9c

Domains IP:

1.188.233.201 cv3sa.gicp.net

1.188.236.22 cv3sa.gicp.net

1.188.236.22 kmbk8.hicp.net

1.188.236.22 sd123.eicp.net

103.255.45.200 36106g.com

103.255.45.200 cv3sa.gicp.net

103.255.45.200 kmbk8.hicp.net

103.255.45.200 sd123.eicp.net

103.255.45.200 [www.36106g.com](http://www.36106g.com)

122.158.140.100 cv3sa.gicp.net

122.158.140.100 kmbk8.hicp.net

122.158.140.100 sd123.eicp.net

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Source: <https://medium.com/@Sebdraven/gobelin-panda-against-the-bears-1f462d00e3a4>