

# Post Configurator Enablement

Encryption

# Restrict and Protect the Post Processor

## Overview



The post processor can be **protected**

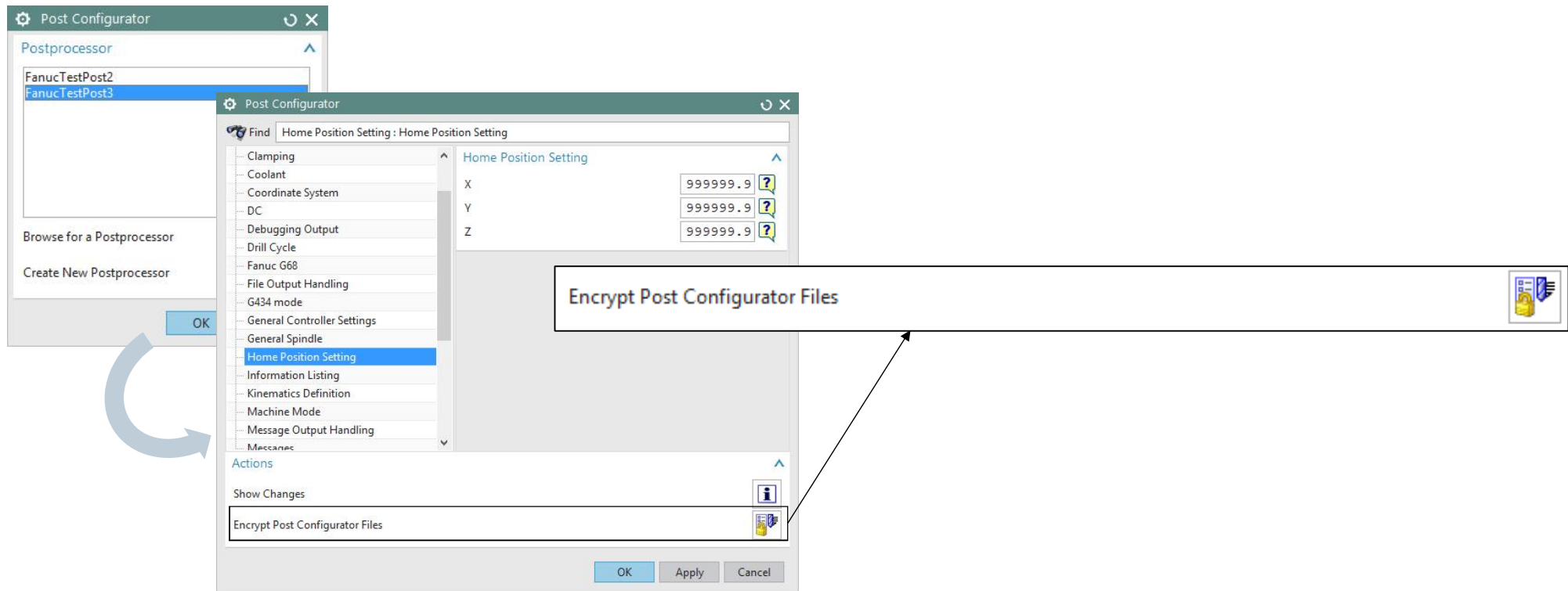
- Limited it to certain users (Sold-To ID)
- Limited to a certain expiration date

The Tcl code files of the post processor can be **encrypted**

- Not human readable
- Cannot be changed
- The IP within is protected

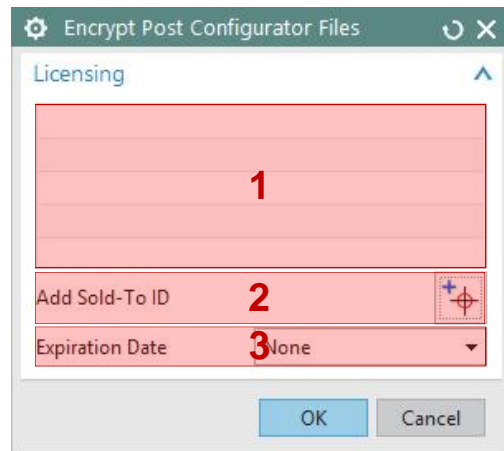
**Note:** This feature is only available with *Full License*.

# Overview



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## Overview

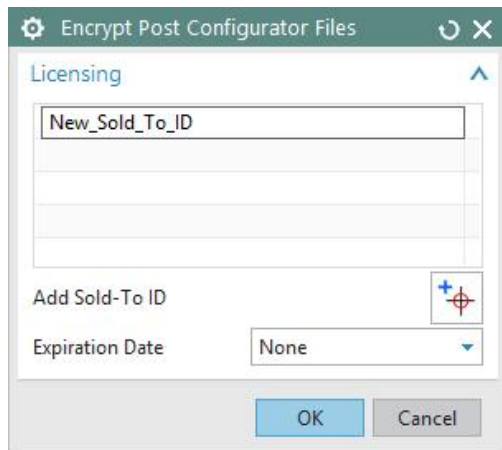


**1: List of licened users (SoldTo ids)**

**2: Add a new licensed user (SoldTo id)**

**3: Add an expiration date (at which date is stops running)**

## Add a new licensed user



1. Click Add Sold-To ID
2. Enter the Sold-To ID which should be allowed to execute and open this post processor
3. Hit enter.

**Note:** The own SoldTo id needs to be added as well, otherwise the Post will not run anymore on the own system.

## How to find the correct Sold-To ID of an user?

```

Information listing created by : weisse
Date : 21.04.2015 15:14:48
Current work part : D:\NX_Dev\NX10.0.2.2\mach\samples\nc_simulation_samples\sim08_mill_5ax_cam_f
Node name : deberweisse01

*** C:\Users\weisse\AppData\Local\Temp\weisse30c47a1c.syslog
*** system log created by weisse on Tue Apr 21 14:55:36 2015 W. Europe Daylight Time

Node Name :- deberweisse01
Machine type :- GenuineIntel Family 6 Model 12 Stepping 3, Intel(R) Core(TM) i7-4810MQ CPU @ 2.80GHz
OS :- Windows NT (x64) 6.3 Windows 8.1 Enterprise (Build 9600)
:- 64 bit software version
# Processors :- 4
:- 1 packages, 4 cores, 4 logical processors
:- cache L1 256Kb / L2 1024Kb / L3 6144Kb
Memory :- 32673Mb
Total Swap :- 34721Mb
Free Swap :- 27952Mb
Machine supports 8TB address space
Running customer environment
Session is running in codeset 1252 17
Successfully loaded dynamic module D:\Program Files\Siemens\NX 10.0\UGII\ugxml.dll
UGXML is using 'UTF-8' as the local code page

***** Licensing Information *****

Server ID : HERE_WOULD_BE_THE_SOLDTO
Webkey Access Code : server module
License File Issuer : Siemens PLM, Inc,
Flex Daemon Version : 11.10
Vendor Daemon Version String : 6.4
Toolkit Version : 6.4.4.1

***** Bundle Information *****

Number of bundles in use : 0

```

## How to find the correct Sold-To ID of an user?

It is shown in at the beginning of the log file

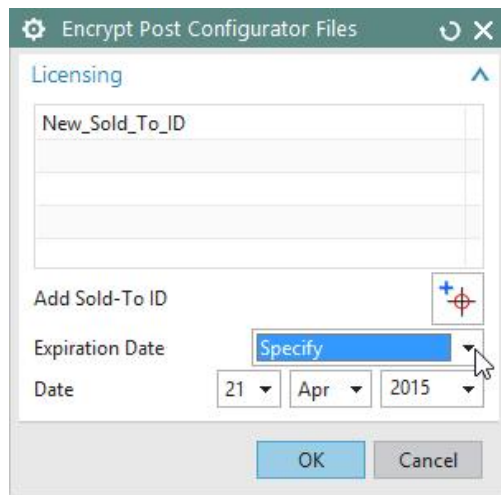
1. In NX: File → Help → Log File
2. It is logged after: Server ID :

```

Server ID : HERE_WOULD_BE_THE_SOLDTO
Webkey Access Code : server module
License File Issuer : Siemens PLM, Inc,
Flex Daemon Version : 11.10
Vendor Daemon Version String : 6.4
Toolkit Version : 6.4.4.1

```

## Expiration Date



1. Select Specify in the Expiration Date menu
2. Select the desired date in the Date fields
3. Once you are done, click OK

This will...

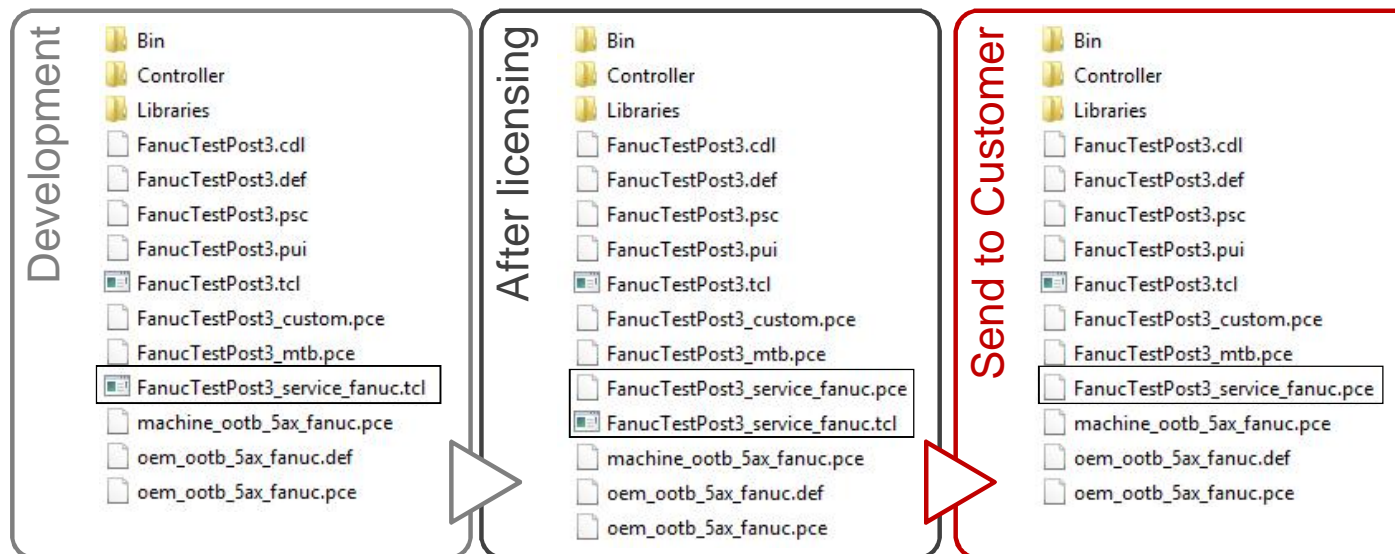
- encrypt all open Tcl files
- lock the post processor to the specified settings

**Note:**



**License the post processor & Ship to Customer**

## License the post processor & Ship to Customer



### In order for the protection take effect:

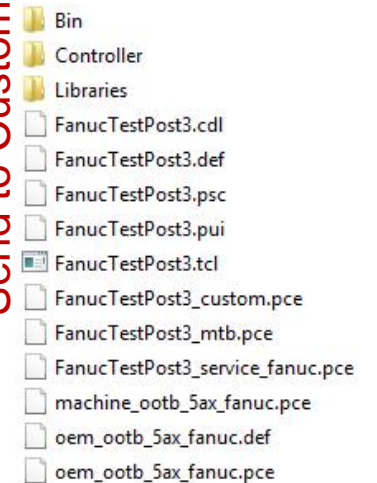
1. Save and remove the original source Tcl file from the folder delivered to customers  
(Move in the example FanucTestPost3\_service\_fanuc.tcl)

**Attention:** Keep the original Tcl at a safe location for later reuse as there is no decryption functionality!  
All the remaining files in the folder are required.

## Shipping the Post Processor - Remarks

- When shipping Post Processor to Customer the whole Post Processor needs to be shipped to Customer
- The Process Processor always needs all files, no files can be removed (besides the original Tcl files)
- Versioning of Post Processor needs to be done manually, a simple copy of the folder is sufficient

Send to Customer



# Encryption

## Encrypted PCE files

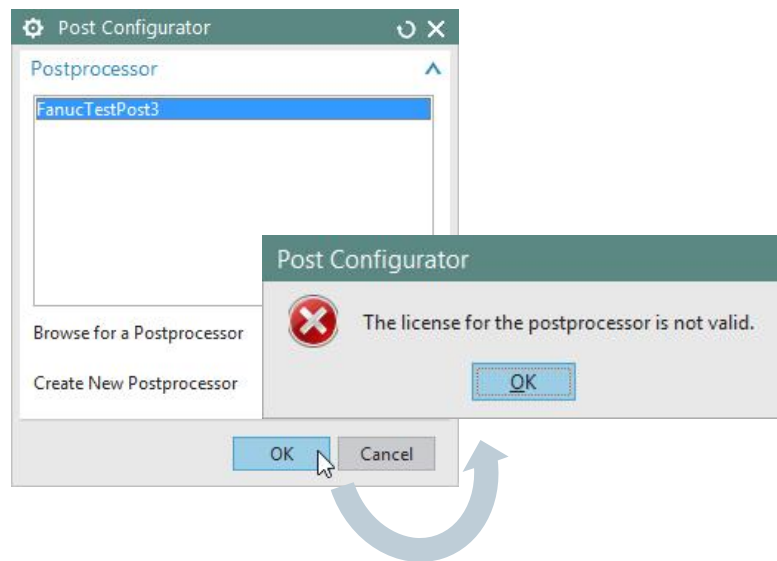
- are not human readable
- cannot be changed

**Note:** There is no way to decrypt PCE back to Tcl files.

```

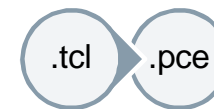
1 >hÅÿe"Å@zç... ESa(2NO),f=ybzZSUBHomø;ÓDC2N VV
2 (S2ENO)_phSpNAC ENBQ:-DC4BESCCOON-ÅT«D×-Å-gÇgDeY4s-Å-tN'GB-#NUUÇ+B'Åÿú°g-WšzúCANDC1XqøY*%
3 ,@B-@SÅÅSXX,ÅLØDxCS'P(SUB)Uf0(SO)j,ct«q\+iñE%w+*f) +ÅS"Ö-KUSNUU(CS), Åÿú<S1°,øZjwøEGSÜ+U
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5 ú(SbÅ<
6 'Å(CO)EÈDø#,FOI rj*gyYÅCANøOE(NUI)T*8/3t*0#ÅHJjCS-ÜDøÅSÖÅN'H*1'ESC(SUBS+pDC)ý·(2zæÜ--æSùÅCAN
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8 i"ÅY2X8øYm(Sds" Ou' !ù(OebÜg»@IMÅwC'Ü#±xyDC1DC2N1
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14 i:ÐøÅ(SÖÅN'Å»Øçk*JÅ)!u«4s~^*(SÜB)0*«øüm)-a"Sk(SVY)CS(VI)CAN"«NA3·DC2ÖYX(FTB-ÈÜ,6PRS9sDsÅE9È->uÈ(C
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18 ]7°È1.8ø±iy>Y,Gýs(S)B:(S)S+nzu"«:-f(CS)S"SSZaRÜth(BNO)Iiø»2Zÿi(SVX)(C)WwY-"c"4!,"ÐøÅ(SÖÅN'È\<U<ó"es
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24 ...Y[6ÅZ(SVX)ø0:(S)B;-Øeg9µSXÅZø0(DC)36S(SVY)Ó'WJdøYÜT«.,(DC)1>^fz*MY*(S)SÈ)1,«ÈPø@ŠÜ5wfÅ"V|(S)Xn]S-;/eÅt:
25 7Y:Å9]øWJ:-GI(CAN)øOE(NUI)T*«(S)B)E*»Z.E(SO)SÈÇ(SO)BYE«ÈÜ,6PRS9scö
26 -Y[6Å(CAN)ççGÅ^V(NTI)È(S)SÖ> YÅæ1"DC2:(DC)9'WJdøYÜT«.,(DC)1>^fz*MY*(S)SÈ)1,«ÈPø@ŠÜ5wfÅ"V|(S)Xn]S-;/eÅt:
27 7Y:Å9«+çç(S)SÖXØ\,ÅUC'(SVY)SÖB«(S)B)E*»Z.E(SO)SÈÇ(SO)BYE«ÈÜ,6PRS9scö
28 ...Y[6Åfz(S)B)«-uç;È(SO)F(B)B-NA3øS(S)B-ÜÅ ö;|=Z+Iøib.,(DC)1>^fz*MY*(S)SÈ)1,«ÈPø@ŠÜ5wfÅ"V|(S)Xn]S-;/eÅt:
29 -VÍ/'MÅA>,S(S)E4ç|(S)SÜZø6fYü(S)SÈ0*øDøÅSÖÅN'ÜfÈS««@BNO)@iÜ"zìø(S)S(S)S!-,«D,Íit(S)S«a-t"Å+5«nNUU
30 -+D(S)SÍ«+Åµxif/^hÜ(BO)BÜÇP«SÅfÅö±X(B)B)Løø(C)C)DF-«È(S)SNUUj|"«<øamÅI'«S-X:(CAN)øOE(NUI)T*«(S)B)E*»Z.E(SO)SÈÇ(SO)BYE«ÈÜ,6PRS9scö
31 ,Èf"Q(S)S;SÿSÅipYø_Zìx«fµ7b"SVX)ø(CAN)øOE(NUI)T*«xy(DC)DC2N1ÅÅ(S)Sç"ç?CS6G(DC)1-ÅÅSDB ASVXøDGH0(À
32 Š(CAN)øOE(NUI)T*«v"«E6R00:60HBIø4Üøç±iy>Y,GýsÅP|>tG8«ÈMø+V(NTI)«f>dè'\Å+
    
```

## About the Protection and Encryption



**Note:** More information about the expired license is outputted to the syslog.

**Post Configurator** will prefer .tcl over .pce if both exist.



**Note:** If there are both file types with the same file name, Post Configurator will prefer the tcl file and any licensing will be ignored.

### How to revert the encryption:

1. Remove encrypted layers (.pce)
2. Replace with the original source code file (.tcl)