

# NX Post Configurator

## 013 – Access levels & 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

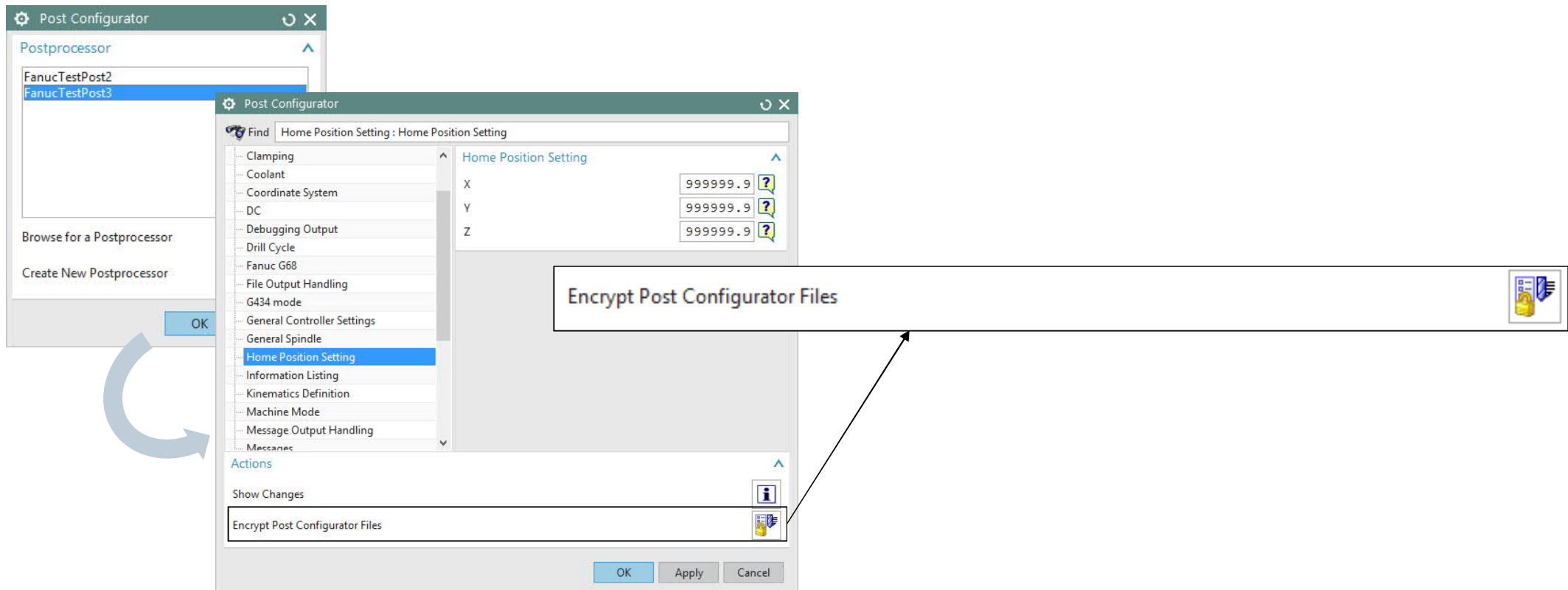
The Tcl code files of the post processor can be **encrypted**

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

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

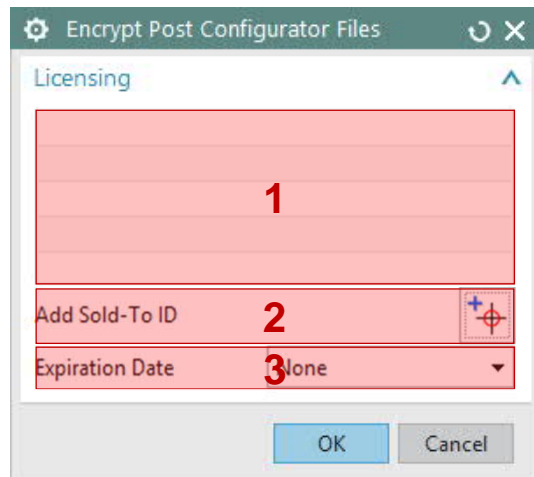


# Overview



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# Overview

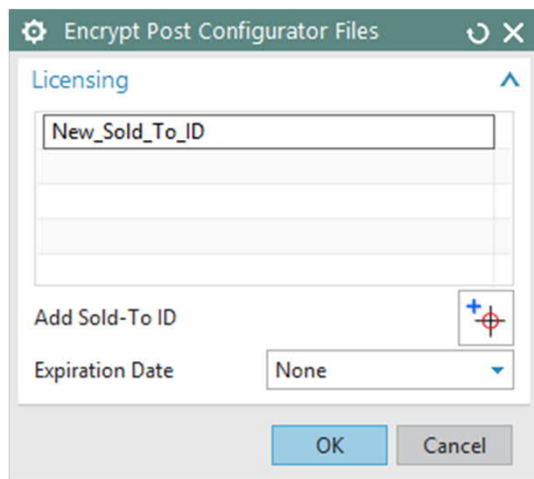


**1: List of licened users (SoldTo ids)**

**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
File Edit
=====
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

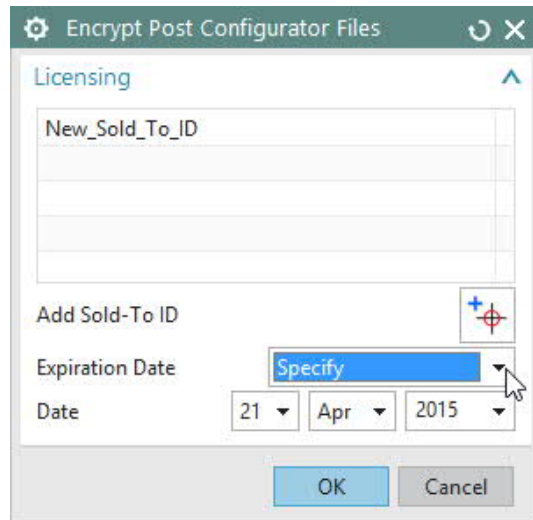
***** Bundle Information *****
Number of bundles in use : 0
|
*****
```

**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...

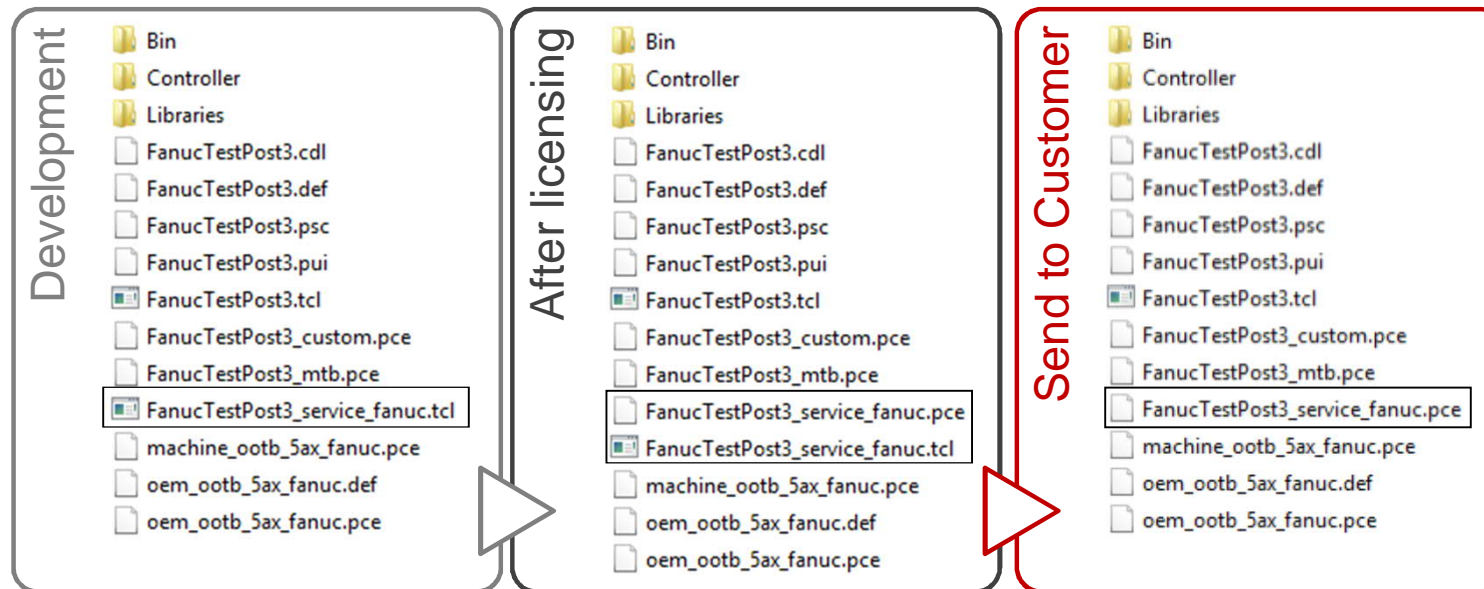
- encrypt all open Tcl files
- lock the post processor to the specified settings

**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)

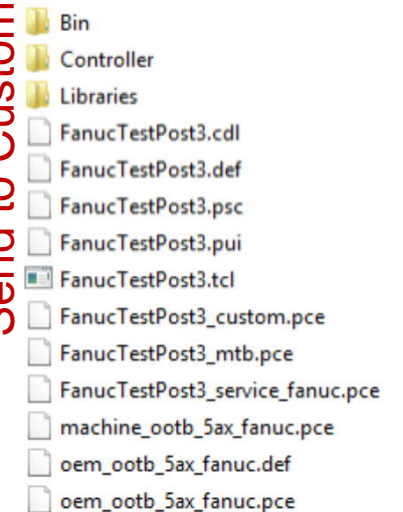
**Attention:** Keep the original Tcl at a safe location for later reuse as there is no decryption functionality!  
All the remaining files in the folder are required.

## Shipping the Post Processor - Remarks

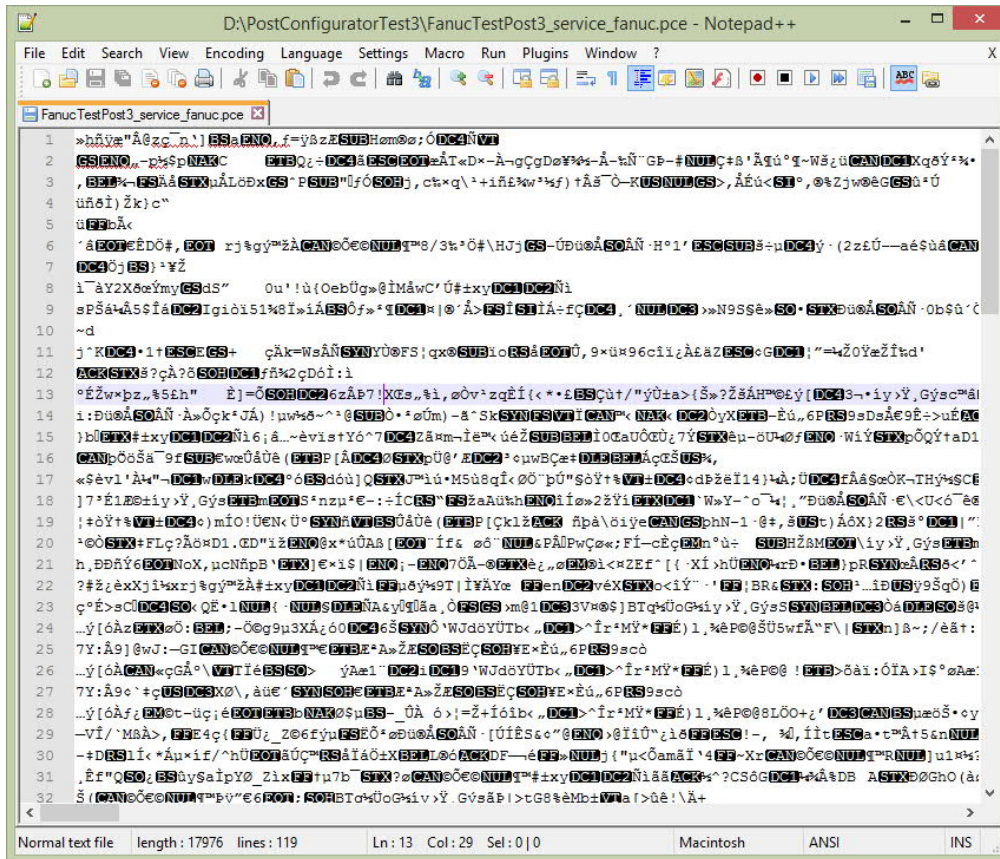


- When shipping Post Processor to Customer the whole Post Processor needs to be shipped to Customer
- The Process Processor always needs all files, no files can be removed (besides the original Tcl files)
- Versioning of Post Processor needs to be done manually, a simple copy of the folder is sufficient

Send to Customer



# Encryption



## Encrypted PCE files

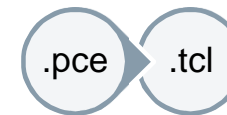
- are not human readable
- cannot be changed

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

## About the Protection and Encryption



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

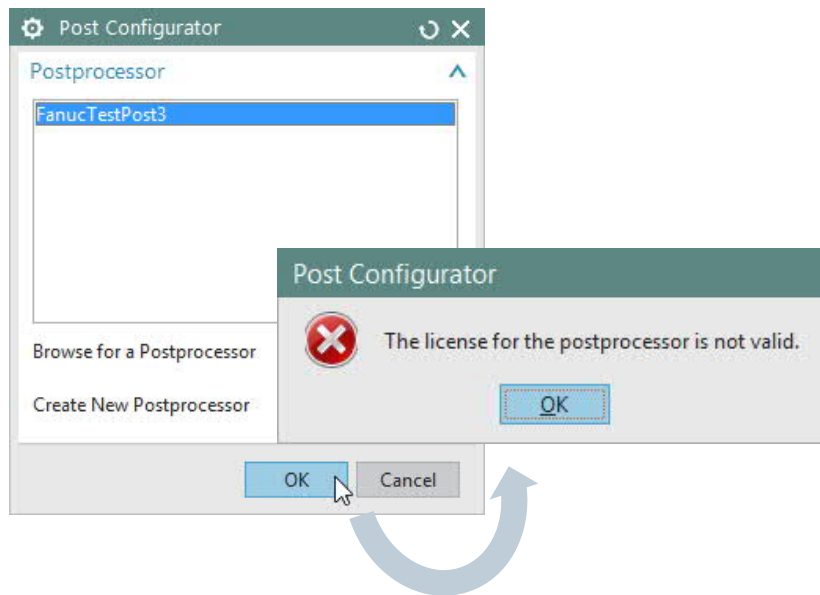


**Note:** If there are both file types with the same file name, Post Configurator will prefer the pce file and if license not valid you cannot open the post

### How to revert the encryption:

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

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





## Q&A

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*Ingenuity for life*



### Thomas Jenensch

Product Portfolio Lead NX CAM Infrastructure  
Manufacturing Engineering Software

Nonnendammallee 101 5. OG, Bauteil C  
D-13629 Berlin, Germany  
Tel. :+49 (30) 46777 535

[thomas.jenensch@siemens.com](mailto:thomas.jenensch@siemens.com)

[www.siemens.com/plm](http://www.siemens.com/plm)

Siemens Manufacturing Forum

[www.siemens.com/plm/nxmanufacturingforum](http://www.siemens.com/plm/nxmanufacturingforum)

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