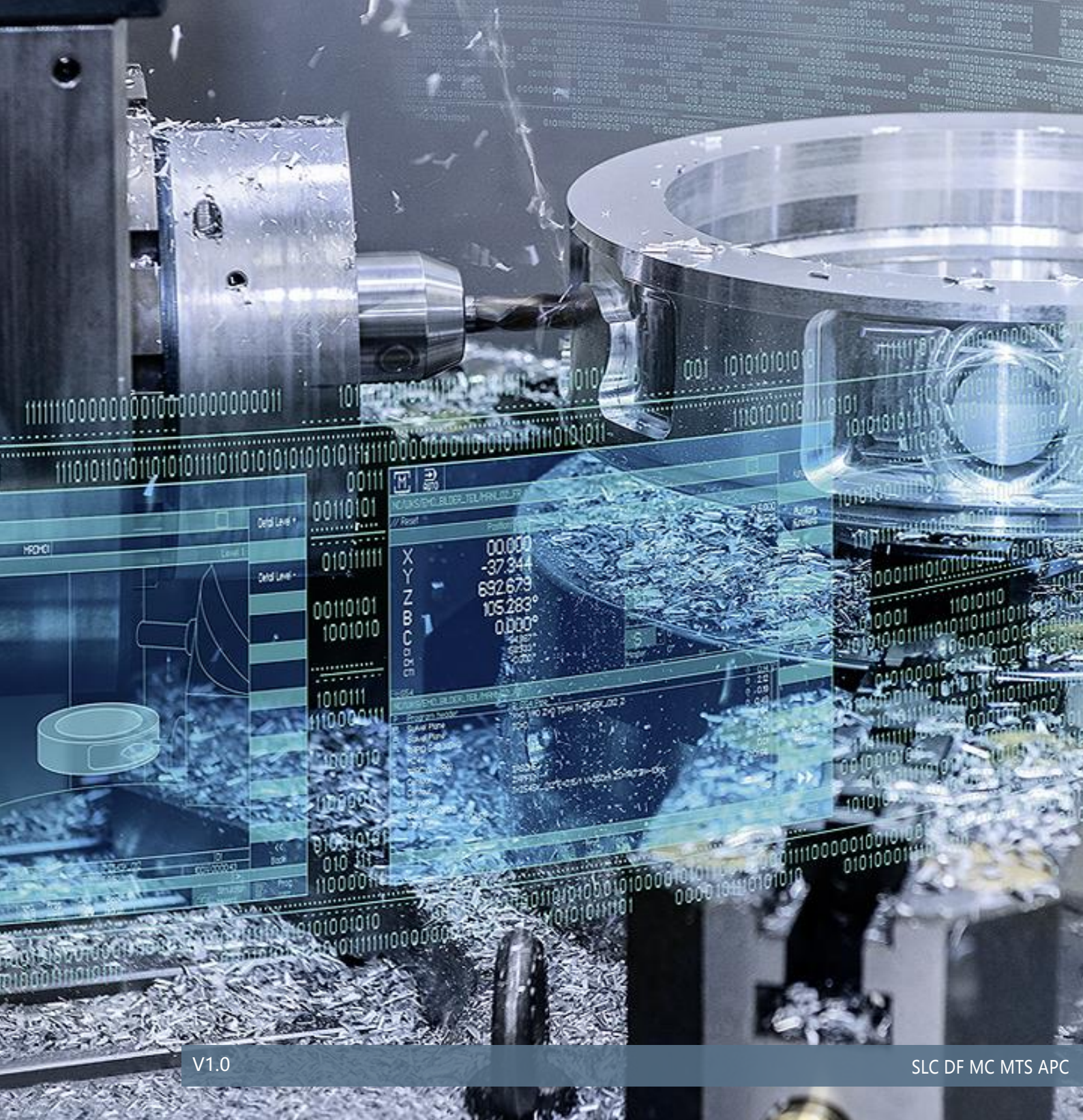




配置多通道显示菜单_TCU

SINUMERIK840D sl

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配置多通道显示菜单_TCU

➤ 任务

配置多通道显示菜单

1 测试条件

Version info: V47 SP3 HF1

Version data	
SINUMERIK 840D sl - 840DSL-72	
Name	Actual version
CNC software	U04.07 + SP 03 + HF 01
Basic PLC program	04.07.11
System extensions	
OEM applications	
User	
Hardware	

2 配置文件 netnames.ini

➤ 说明

在\card\siemens\sinumerik\hmi\template\cfg\下，有 netnames.ini 文件的示例。

配置文件 netnames.ini 定义通道组菜单。如果在 netnames.ini 文件中使用 [T2M2N] 定义了可选择的通道组，那么所有连接到该 NCU 或 PCU50.5 的 TCU，都显示同样的通道组菜单。

➤ netnames.ini 文件存储路径

/card/oem/sinumerik/hmi/cfg or
/card/user/sinumerik/hmi/cfg

Registered as: Manufacturer Control type: SINUMERIK CNC-SW 31-5 Export
 Direct Connection (IP: 192.168.215.1) Path: /card/oem/sinumerik/hmi/cfg
 Bookmark:

hmi

- appl
- base
- cfg
- data
- dvm
- hlp
- hlps
- ico
- ime
- lng
- lngs
- proj
- template

netnames.ini

01/03/17 4:02 PM

CHAN3	Name	Type	Length	Date	Time	
	Definitions	DIR		01/03/17	3:56:53 PM	Activate
	NC active data	DIR		01/01/70	12:00:00 AM	
	Part programs	DIR		12/29/16	4:46:07 PM	New
	Subprograms	DIR		12/29/16	4:46:07 PM	Open
	Workpieces	DIR		12/29/16	4:51:06 PM	Mark
	Comments	DIR		01/03/17	3:56:53 PM	Copy
	NC Extend					Paste
	System CF card					Cut
	addon					
	oem					
	common			12/01/16	8:59:45 AM	
	sinamics			12/01/16	8:59:45 AM	
	sinumerik			12/01/16	8:59:45 AM	
	cycles			12/01/16	8:59:45 AM	
	data			12/01/16	8:59:45 AM	
	hmi			12/01/16	8:59:45 AM	
	appl			12/01/16	8:59:45 AM	
	base			12/01/16	8:59:45 AM	
	cfg			01/03/17	2:17:17 PM	
	netnames	ini	1916	01/03/17	3:53:23 PM	
	data			11/02/16	2:53:32 PM	
	dvm			11/02/16	2:49:07 PM	

Manufacturer/Configuration files Free: 1.9 GB

MD Mach. data NC Drive system HMI System data Optim./test

2.1 NETNAMES.INI 例子 1

在 netnames.ini 文件，指定通道名，TCU 连接到本地 NCU 的多个通道。

```
; netnames.ini
; /card/oem/sinumerik/hmi/cfg
; *****
; netnames.ini - EXAMPLE -
; This is an example of a netnames.ini for local channel switching per channel menu.
; The embedded SINUMERIK Operate of a NCU can only operate with its own NCK and
; cannot be switched over to another NCU.
; *****
[own]
```

owner = HMI

```
*****  
;
```

```
; ChanMenu
```

```
*****  
;
```

```
[chan HMI]
```

```
ShowChanMenu = true
```

```
*****  
;
```

```
;Channel-groups
```

```
;Correlation from channel-group to horizontal softkeys -> see config.ini of the TCU
```

```
;The section [T2M2N] can also be created in the netnames.ini file instead of
```

```
;config.ini file. This means that the channel menu is the same for all TCUs.
```

```
*****  
;
```

```
:[T2M2N]
```

```
;SK1 = CH_GRP_1
```

```
;SK2 = CH_GRP_2
```

```
[CH_GRP_1]
```

```
;user-defined name for horizontal softkey
```

```
Text = Channel%n 1..3
```

```
Member1.Text = $MC_CHAN_NAME
```

```
;or user-defined channel name for vertical softkey
```

```
;Member1.Text = My NCU%nchannel 1
```

```
Member1.Target = #1
```

```
;channel name from machine data 20000 for vertical softkey
```

```
Member2.Text = $MC_CHAN_NAME
```

```
Member2.Target = #2
```

```
Member3.Text = $MC_CHAN_NAME
```

```
Member3.Target = #3
```

```
[CH_GRP_2]
```

```
Text = Channel%n 1..3
```

```
Member1.Text = $MC_CHAN_NAME
```

```
Member1.Target = #1
```

```
Member2.Text = $MC_CHAN_NAME
```

```
Member2.Target = #2
```

Member3.Text = \$MC_CHAN_NAME

Member3.Target = #3

Machine	Position [mm]	Feed/override
☐ X2	0.000	0.000 mm/min 0.0%
☐ Y2	0.000	0.000 mm/min 0.0%
☐ Z2	0.000	0.000 mm/min 0.0%
☐ A2	0.000	0.000 mm/min 0.0%

F=0.000

Channel 1..3 Channel 1..3 [] [] [] [] []

2.2 NETNAMES.INI 例子 2

在 netnames.ini 文件, 指定连接 NCU 的 IP 地址, TCU 连接到多个 NCU 多个通道。

```
; netnames.ini
; /card/oem/sinumerik/hmi/cfg
; *****
*
[own]
owner= HMI_1

;***** channel menu for TCUs
[chan HMI_1]
ShowChanMenu = true

[CH_GRP_1]
Text = Milling_1
Member1.Target = 192.168.214.1.#1
Member1.Text = Channel_1
```

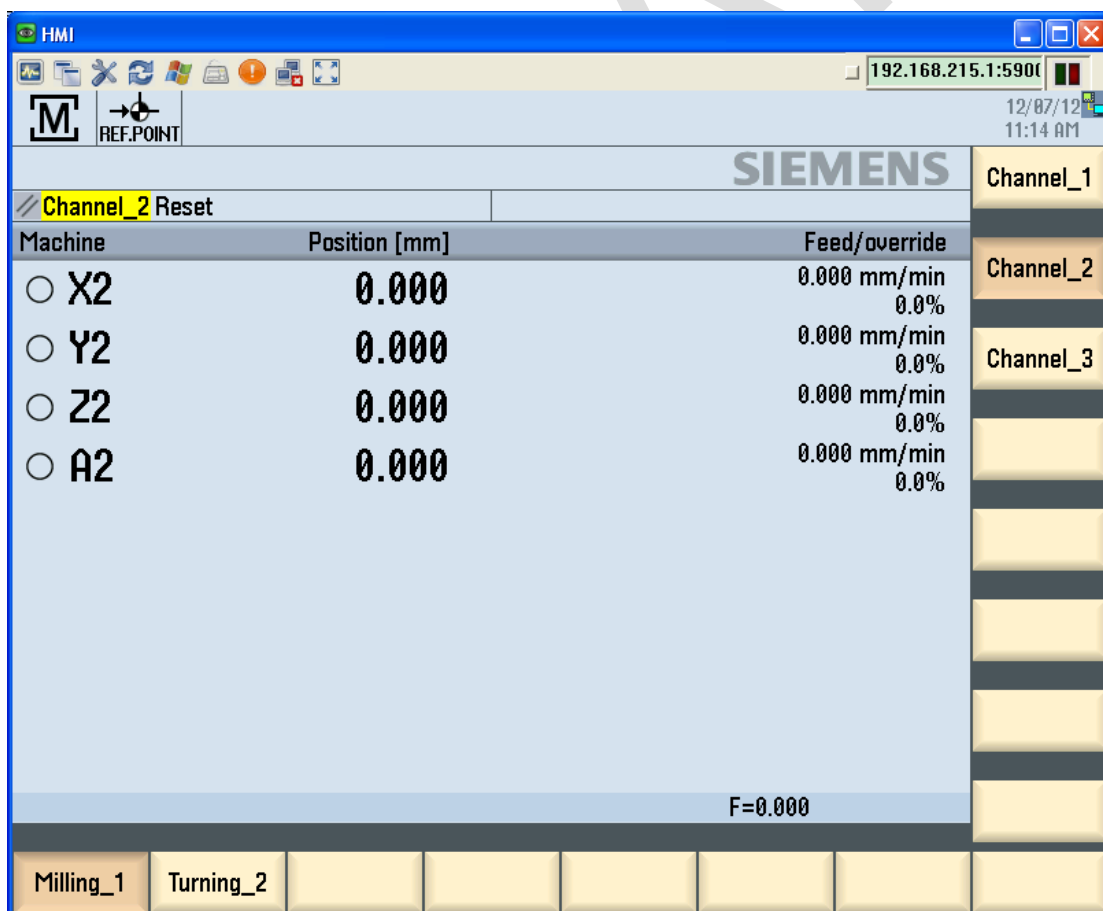
Member2.Target = 192.168.214.1.#2
Member2.Text = Channel_2

Member3.Target = 192.168.214.1.#3
Member3.Text = Channel_3

[CH_GRP_2]
Text = Turning_2
Member1.Target = 192.168.214.1.#1
Member1.Text = Channel_1

Member2.Target = 192.168.214.1.#2
Member2.Text = Channel_2

Member3.Target = 192.168.214.1.#3
Member3.Text = Channel_3



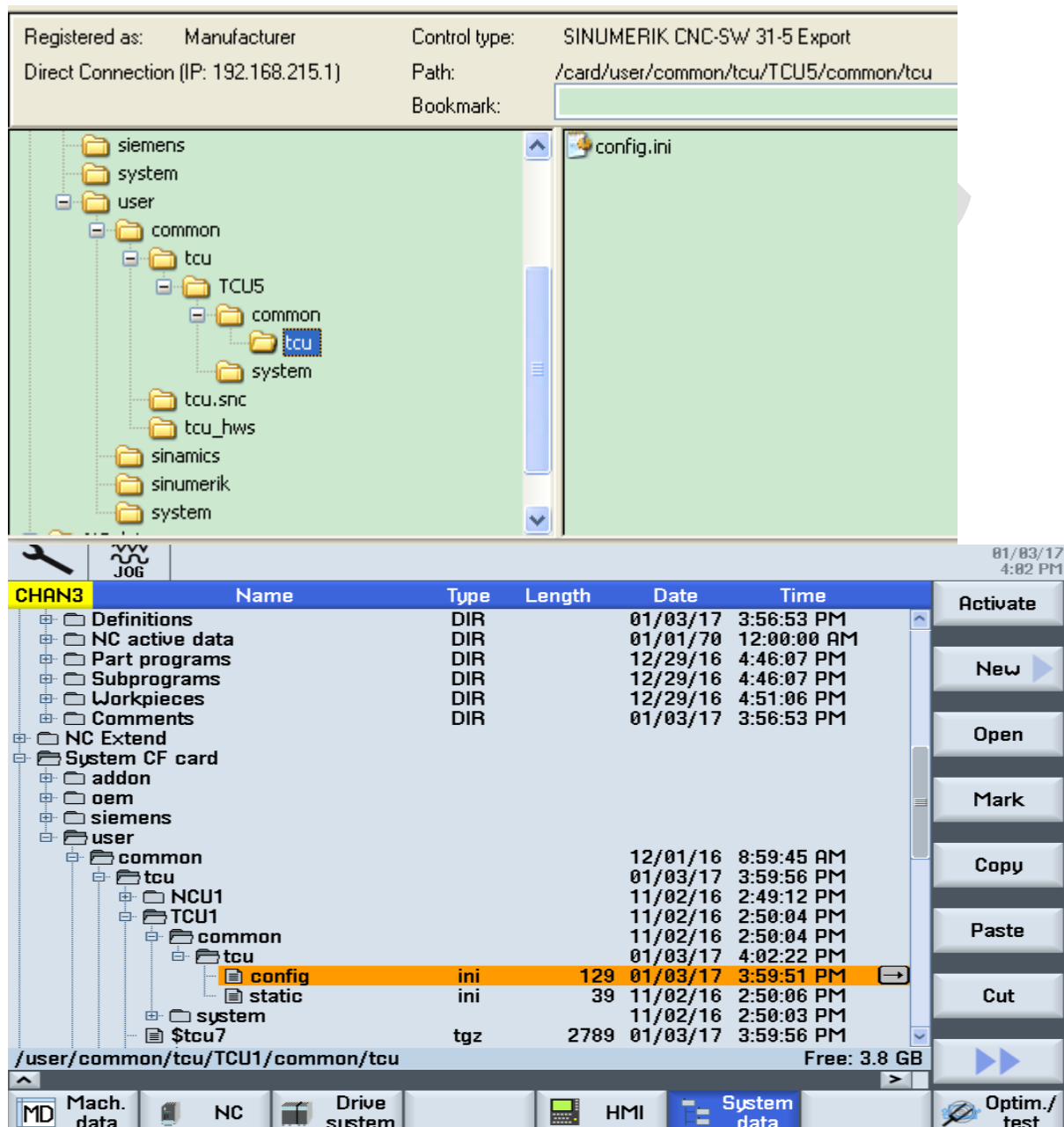
3 配置文件 config.ini

配置文件 config.ini 定义 TCU 可选择的通道组。

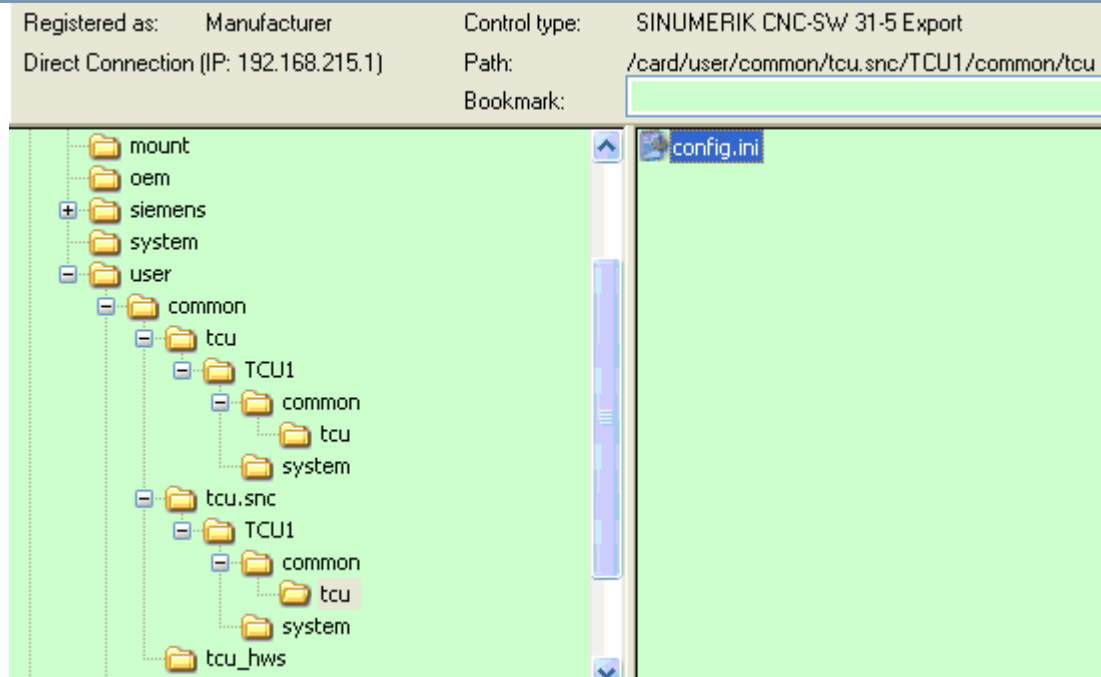
➤ 存储路径

/card/user/common/tcu/<TCU name>/common/tcu/config.ini

其中，TCU name 在 TCU 第一次连接到 NCU 内置的 HMI Operate 时设定，并在 /card/user/common/tcu/下生成如名为 TCU5 的文件夹，如下图



或通过 SNC 修改保存后，并在 /card/user/common/tcu.snc/ 下生成如名为 TCU1 的文件夹，如下图



3.1 CONFIG.INI 例子

3.1.1 手动修改 config.ini

```
; config.ini
; /card/user/common/tcu/<TCU name>/common/tcu/config.ini
[Station]
mcplIndex=192
tcuIndex=1
eksIndex=0
dckEnable=0

[DEFAULT]
ChannelonFocus=2

[T2M2N]
SK1=CH_GRP_1
SK2=CH_GRP_2
```

3.1.2 使用 SINUMERIK Operate 修改 config.ini

操作菜单：Setup – Ops – T:M:N

01/03/13
3:59 PM

Available operator panels of ncu1 (192.168.214.1)

	St.	HW	Name	MCP	DCK	TCU	EKS	Virtual keyboard	SWJ CapsLock
1		TCU	TCU1	192	☐	1	0	auto	auto

MAC address 08:00:06:73:ae:4b IP address 192.168.214.10 Resolution 800x600

T:M:N configuration (TCU1)

SK_1: CH_GRP_1	SK_2: CH_GRP_2	SK_3: CH_GRP_0	SK_4: CH_GRP_0
SK_5: CH_GRP_0	SK_6: CH_GRP_0	SK_7: CH_GRP_0	SK_8: CH_GRP_0
SK_9: CH_GRP_0	SK_10: CH_GRP_0	SK_11: CH_GRP_0	SK_12: CH_GRP_0
SK_13: CH_GRP_0	SK_14: CH_GRP_0	SK_15: CH_GRP_0	SK_16: CH_GRP_0
SK_17: CH_GRP_0	SK_18: CH_GRP_0	SK_19: CH_GRP_0	SK_20: CH_GRP_0
SK_21: CH_GRP_0	SK_22: CH_GRP_0	SK_23: CH_GRP_0	SK_24: CH_GRP_0
SK_25: CH_GRP_0	SK_26: CH_GRP_0	SK_27: CH_GRP_0	SK_28: CH_GRP_0
SK_29: CH_GRP_0	SK_30: CH_GRP_0	SK_31: CH_GRP_0	SK_32: CH_GRP_0

Setup archive
 Li-censes
 Net-work
 OPs
 Safety
 Swivel data

X Cancel
✓ OK

4 作者/联系人

顾向清

2012-12-10

5 版本信息

版本	日期	修改内容
V1.0	2012.12.10	Created