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3. CAN bus I/O level

The CAN bus I/O level of the CNC 903 / CNC 905 contains the following stages of development.

5 CAN nodes with in each case

64	Digital inputs	8	8 Channel digital input clips
64	Digital outputs	8	8 Channel digital output clips
2	Analog inputs	1	2 Channel analog input clips
2	Analog outputs	1	2 Channel analog output clips

3.1 I/O configuration

The configuration and initialization of the field bus couplers as well as the pertinent I/O level are determined by a configuration file. This has the designation ‘ canconf ‘ and finds itself in the general statement of the CNC.

Example of a CAN I/O configuration

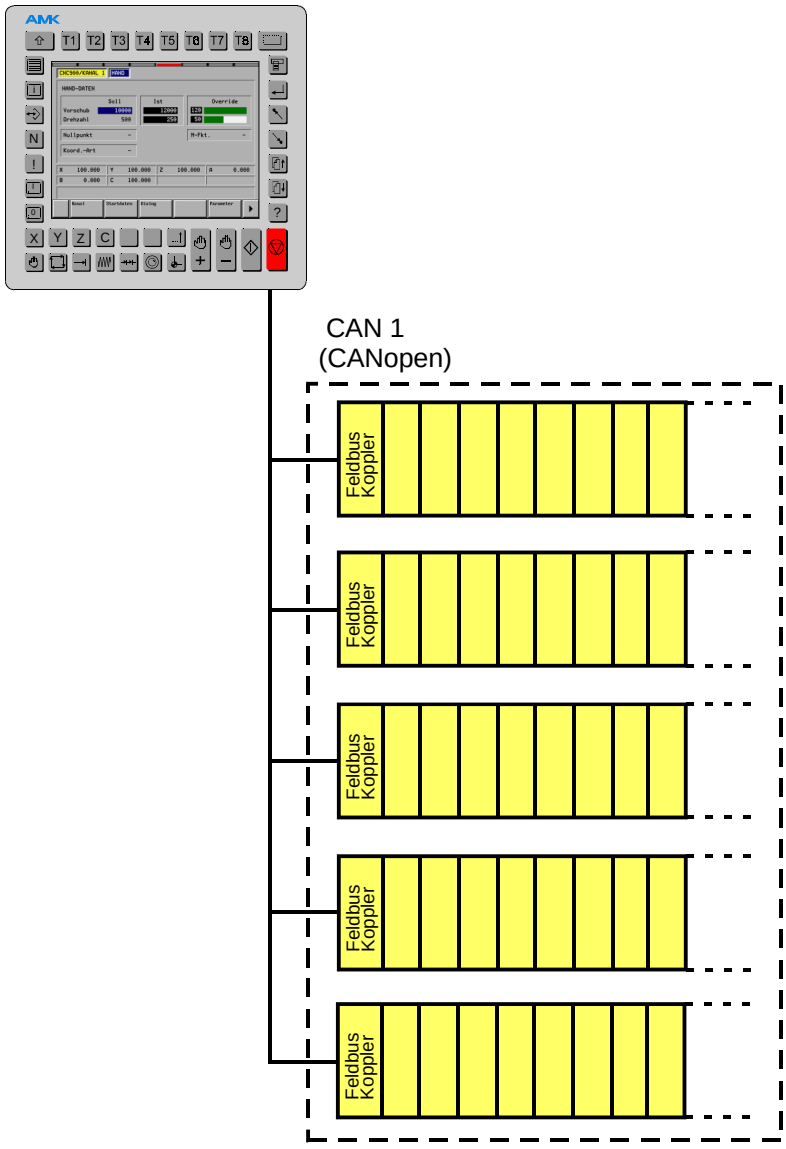
CAN node 1:
5 x 8 Channel digital input clips
4 x 8 Channel digital output clips

CAN node 2:
3 x 8 Channel digital input clips
3 x 8 Channel digital output clips

CAN node 3:

CAN node 4:

CAN node 5:



3.2 Program 'canconf'

```
##########################################
## CAN-Konfiguration  fuer               ##
## Knoten 1:                             ##
## Knoten 2:                             ##
##########################################
#
## Steckplatz-Nummer, CAN-Modul, 0=selbstsuchend ##
[slot]
0
#
## Kanal-Nummer, CAN-Modul ##
[channel]
2
#
## Baudrate 0=1000kB, 1=800kB, 2=500kB, 3=250kB, 4=125kB, 5=100kB ##
[baudrate]
2
#
## Knoten 1-5, PDO-Adressen Digitale Eingaenge ##
[input_pdos]
0x181
0x182
#0x183
#0x184
#0x185
#
## Knoten 1-5, PDO-Adressen Digitale Ausgaenge ##
[output_pdos]
0x201
0x202
#0x203
#0x204
#0x205
#
## Knoten 1-5, PDO-Adressen Analoge Eingaenge  ##
[analog_in]
#0x281
#0x282
#0x283
#0x284
#0x285
#
```

3.2 Program 'canconf' (continued))

```
## Knoten 1-5, PDO-Adressen Analoge Ausgaenge ##
[analog_out]
#0x301
#0x302
#0x303
#0x304
#0x305
#
#
## CAN-Knoten 1, Digitale Ein- und Ausgaenge      ##
## mit Zuordnung der BWO  E/A-Adressen     ##
i8
i8
i8
i8
i8
o8
o8
o8
o8
#
#
## CAN-Knoten 2, Digitale Ein- und Ausgaenge      ##
## mit Zuordnung der BWO E/A-Adressen             ##
i8
i8
i8
o8
o8
o8
#
```