You will need:
- access to the front panel of the FEMC
- a computer with a terminal software such as (hyperterminal, secureCRT or equivalent that support z-modem transfer) and a serial port
- a null modem cable

Notes:

Procedure:
- download the 2-8-5.exe file from EDM:
  http://edm.alma.cl/forums/alma/dispatch.cgi/iptfedocs/showFolder/104236
- turn off any activity on the CAN bus but leave the FEMC powered
- connect the serial cable to the computer and the FEMC
- start your terminal software with the following options:
  - Baud rate: 115200
  - Data Bits: 8
  - Stop Bits: 1
  - Parity: none
  - No flow control
- once the communication is established push <enter> a couple of time to verify that you can talk to the FEMC.
- push "i" <enter>. This should give you the software revision information.
- push "q" <enter>. This should bring you to the dos promt C:\ALMA>
- type "verify on" <enter> to enable the verification of the operations by the operating system
- create a directory with the command "mkdir v2-6-6" <enter>
- backup the existing fe_mc.exe:
  - "copy fe_mc.exe v2-6-6" <enter>
- delete the fe_mc.exe from the ALMA directory:
  - "del fe_mc.exe" <enter>
- use whatever is required by your terminal software to transfer with z-modem the 2-8-5.exe file. If the FEMC doesn't automatically activate the z-modem reception, type the following in the DOS prompt:
  - "rz" <enter>
copy the new version to fe_mc.exe:
  - "copy 2-8-5.exe fe_mc.exe" <enter>
- type "verify off" <enter> to disable the verification of the operations by the operating system
- power cycle the unit and verify that the software is going through initialization
- push <enter> once the initialization is finished and you should see something similar to the following:

Front End Monitor and Control Firmware (FEND-40.04.03.03-011-A-FRM)
Morgan McLeod - NRAO (mmcleod@nrao.edu)
Revision: 2.8.5 (2016-01-08)
Notes: Implements all 2.8.x features except logging cold head hours.

Bug report: jira.alma.cl

Console help
' -> retypes last command
" -> repeats last command
a<CR> -> enables/disables the async process (DEBUG only)
c RCA q data <CR> -> control the specified address
RCA is the Relative CAN Address.
It can be in decimal or exadecimal (0x...) format
q is the qualifier for the payload:
b for a byte or a boolean
i for an unsigned integer
f for a float
data is the payload in the format specified by the qualifier
d<CR> -> disable console
e<CR> -> reads and display ESNs on the OWB
i<CR> -> display version information
m RCA<CR> -> monitor the specified address
RCA is the Relative CAN Address.
It can be in decimal or exadecimal (0x...) format
q<CR> -> quit
r<CR> -> restart
For a list of the RCAs check:
- ALMA-40.00.00.00-75.35.25.00-X-ICD
- ALMA-40.04.03.03-002-X-DSN

- Disconnect the serial cable and restart your CAN control software.