

D0-DEVNETS Think & Do/Entity Setup

In This Appendix. . . .

— D0-DEVNETS Think & Do/Entity Setup

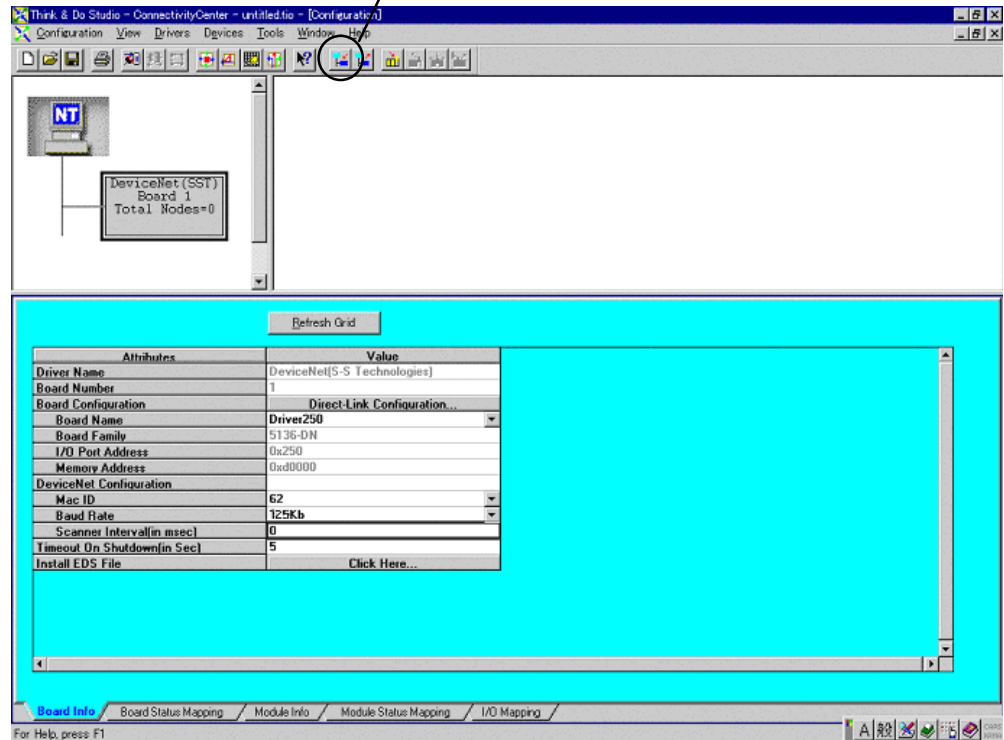
D0-DEVNETS Think & Do/Entivity Setup

For those who are using the D0-DEVNETS as slave I/O with Think & Do Studio PC based control, the following example shows how to setup Think & Do on your network.

T&D/Entivity setup for PC control

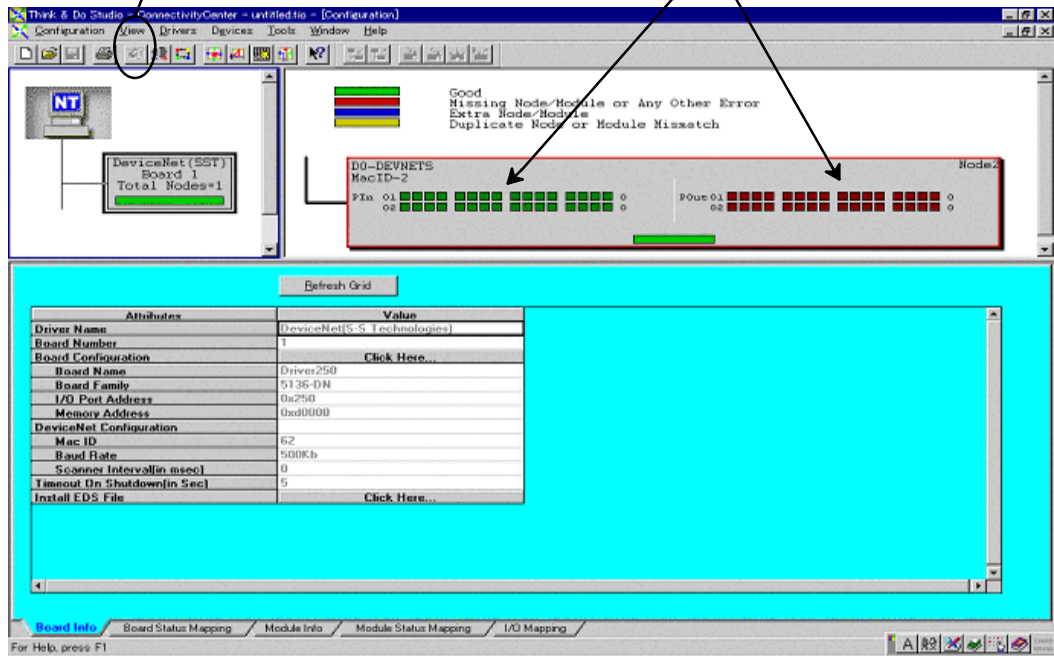
Use the following procedure to setup the D0-DEVNETS adapter with Think & Do Studio.

1. Click on Add Driver and SST card is installed.
2. Set MAC ID to 62.
3. Set baud rate to either 125k or 250k.
4. Set scanner interval to 0.
5. Set timeout shutdown to 5.
6. EDS not needed.



7. Click on connection.

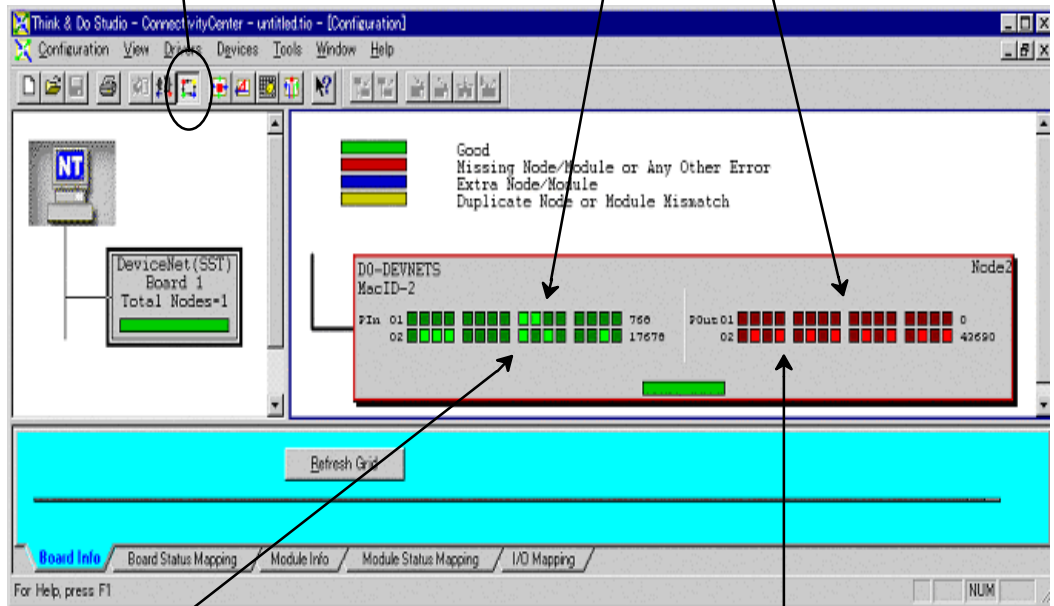
Think & Do/Entropy will display D0-DEVNETS MacID #.
PIn and POut will display 32 points each.



8. Click on Scan and communication will begin.

PIn 01 will display diagnostic data.

POut 01 controls D0-DEVNETS.



Inputs X0-X7 (V40400) will display on bits 0-15 of PIn 02.

Outputs Y0-Y15 (V40500) will display, and bits 0-15 of POut 02 can be forced ON/OFF.

For those who are using a DL05 with D0-DEVNETS as a PLC, for local I/O control, on a DeviceNet network with Think & Do Studio, the following example shows how to setup the DL05 and the adapter for use as a PLC on the network.

Setup Think & Do with DL05 on a network

Use the following steps to setup the adapter with the DL05 PLC for local control on a network. The RLL program is edited using *DirectSOFT32* programming software.

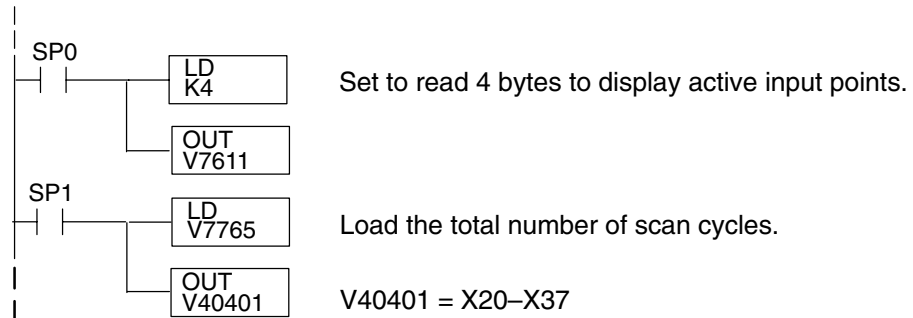
Set DIP switch, SW1, as follows:

1. SW1-1: OFF
SW1-2: ON (communications rate 500K or the baud rate of your choice)
SW1-3: OFF
SW1-4: OFF
SW1-5: OFF
SW1-6: ON (initial value)

SW1-6 sets up the following system parameter defaults:

V7610 = O40400 / V7611 = 2
V7612 = O40500 / V7613 = 2
V7614 = O3000 / V7615 = 128
V7616 = O3100 / V7617 = 128

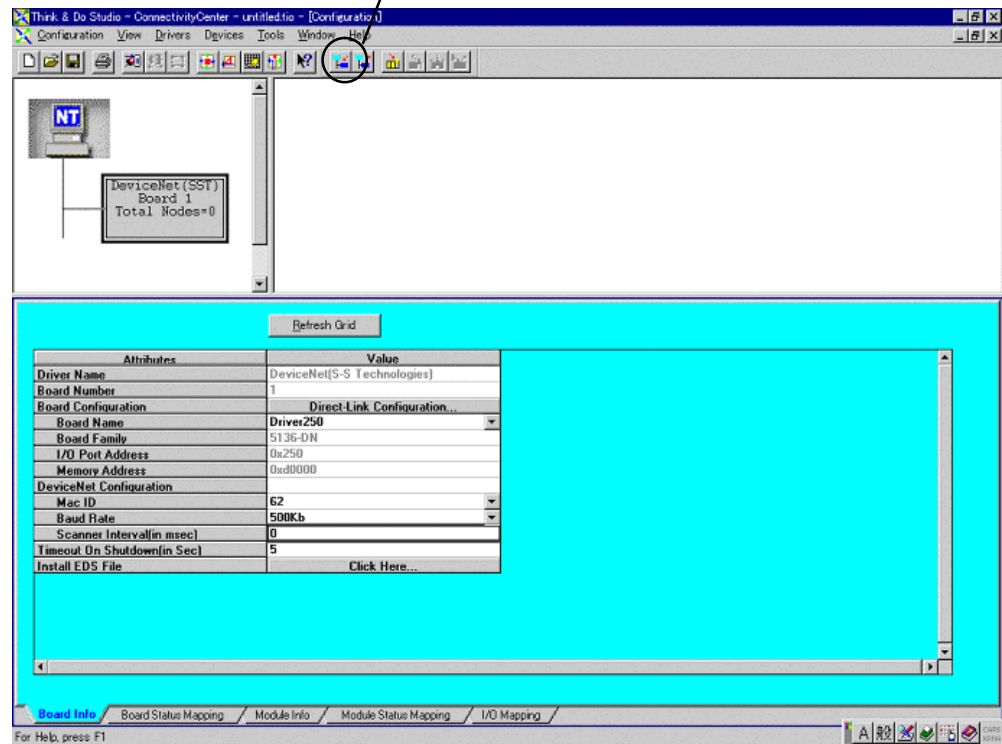
2. Set rotary switch, SW2 = 02, SW3 = 0.
3. Add the following RLL code to the DL05 program:



4. Return the DL05 to RUN mode.

T & D Studio setup Use the following procedure to setup the D0-DEVNETS adapter with Think & Do Studio.

1. Click on Add Driver and SST card is installed.
2. Set MAC ID to 62.
3. Set baud rate (500K in this example).
4. Set scanner interval to 0.
5. Set timeout shutdown to 5.
6. EDS not needed.

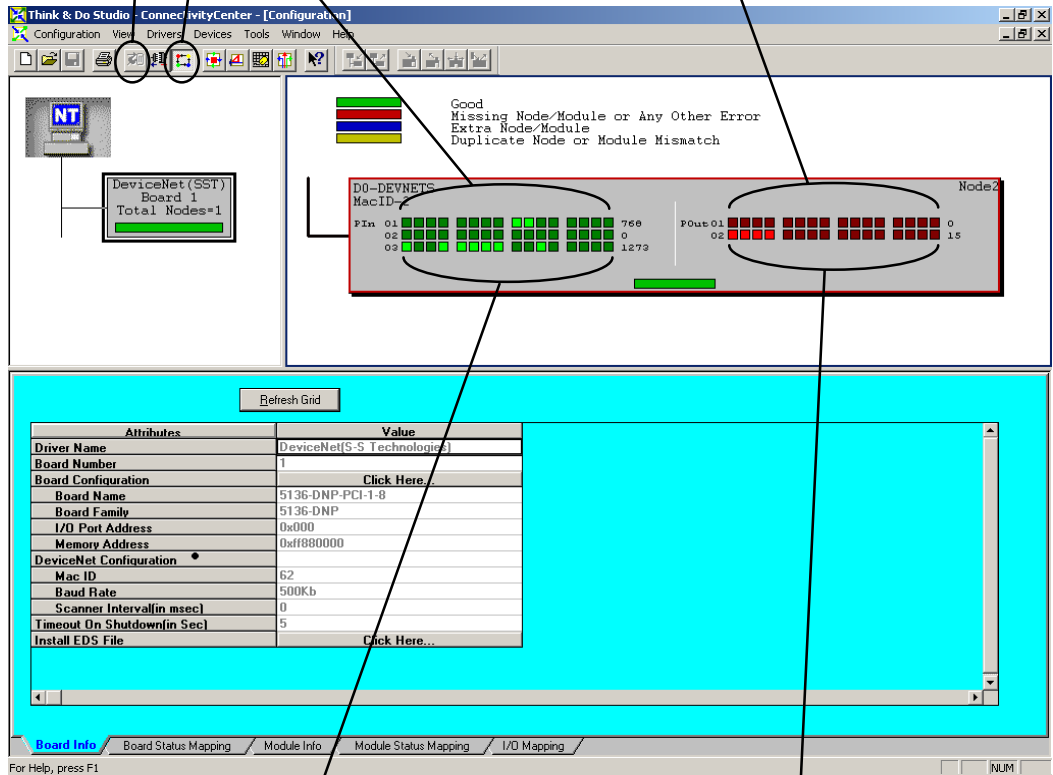


7. Click on connection.

8. Click on Scan and communication will be setup.

PIn 01 is system information.

P0ut 01 controls D0-DEVNETS.



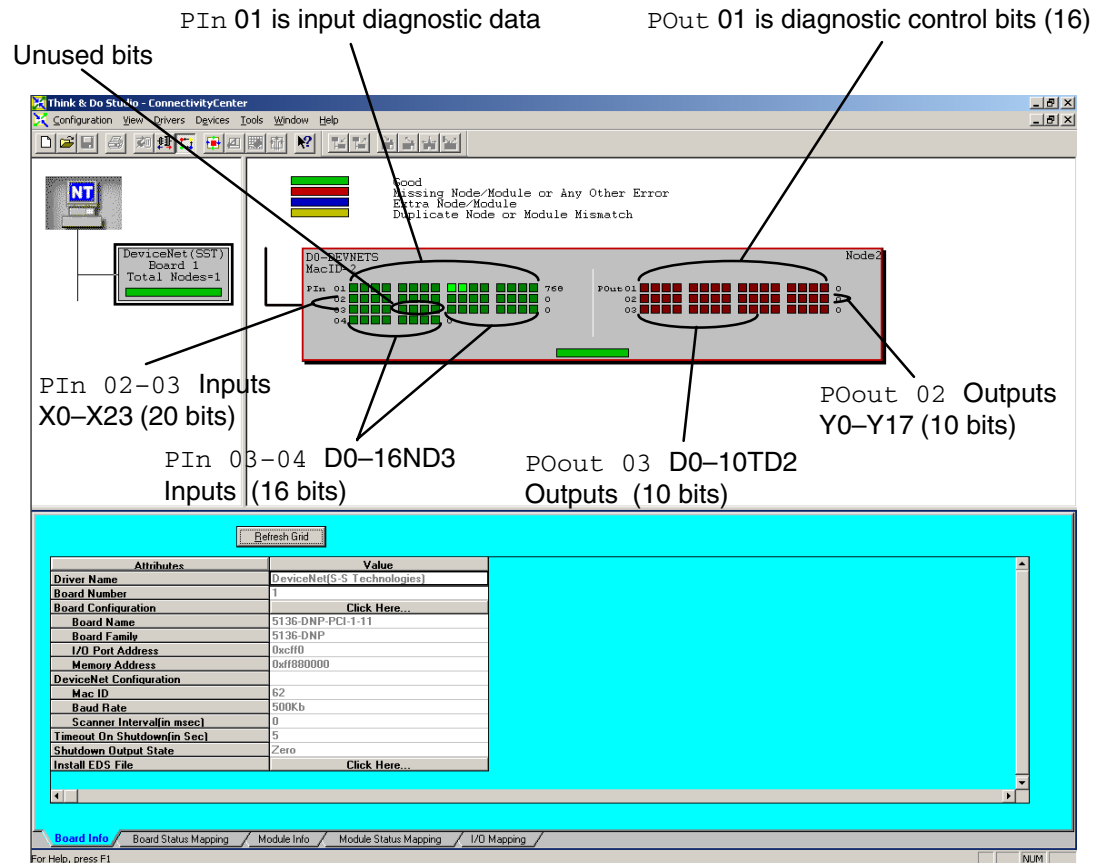
PIn 02 is V40400 and PIn 03 is linked to V40401 which shows the active inputs.

P0ut 02 is linked to V40500.

Using the DL05 PLC example will allow easy access to other bits in the PLC without using explicit messaging. Polling is often faster than explicit messaging.

The following example is a DL06 PLC with the following I/O modules installed:

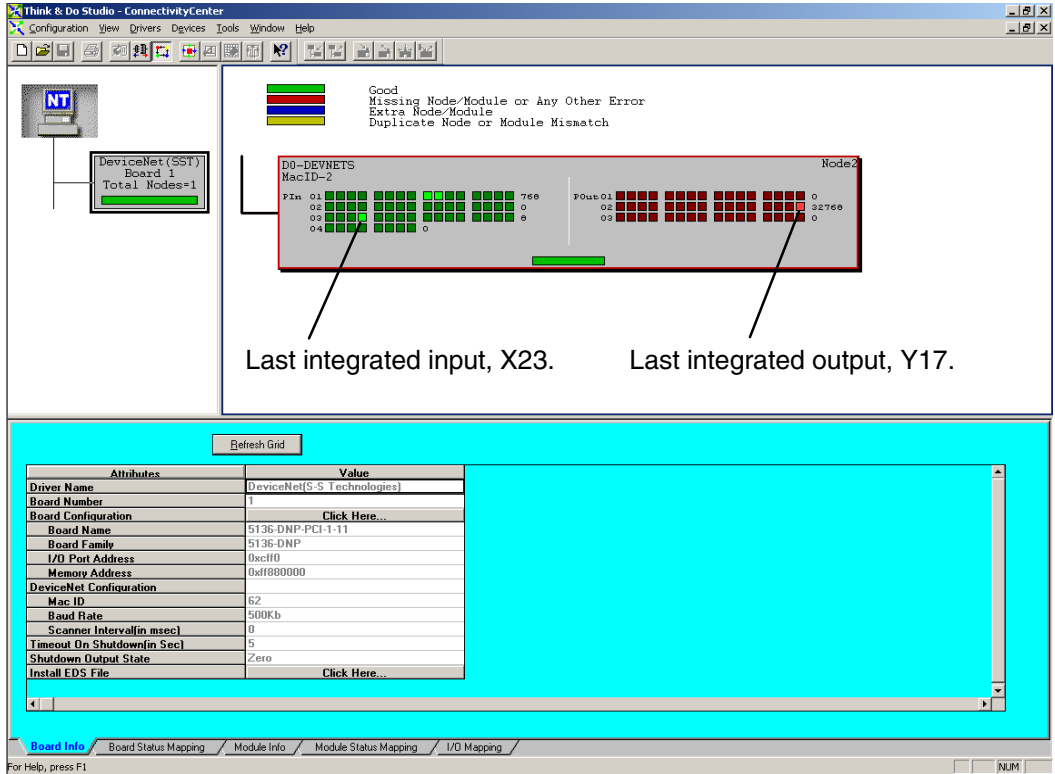
- Slot 1 = D0-16ND3
- Slot 2 = F0-2AD2DA-2
- Slot 3 = D0-10TD2
- Slot 4 = D0-DEVNETS



PIn 01 shows the input diagnostic data (16 bits). PIn 02, linked to V40400, and the first four bits of PIn 03 are the DL06 integrated inputs (X0-X23 octal = 20 bits). The next four bits are not used. The last eight bits of PIn3 are the first eight inputs of the D0-16ND3 and PIn 04 are the last eight inputs of the D0-16ND3.

POut 01 are the diagnostic control bits for D0-DEVNETS. POut 02, linked to V40500, shows the 16 integrated outputs of the DL06 (Y0-Y17 octal), and POut 03 are the bits for the D0-10TD2 output points.

This is how the display appears after scanning begins. Notice the end points for the DL06 integrated I/O. Only the discrete I/O is polled. Analog I/O is setup in registers (See page 2-11).



Polled I/O

Byte	I/O Point								Address
PIn 02	X7	X6	X5	X4	X3	X2	X1	X0	V40400
PIn 02	X17	X16	X15	X14	X13	X12	X11	X10	V40400
PIn 03	NA	NA	NA	NA	X23	X22	X21	X20	V40401
PIn 03	X107	X106	X105	X104	X103	X102	X101	X100	V40401
PIn 04	X117	X116	X115	X114	X113	X112	X111	X110	V40402
POut 02	Y7	Y6	Y5	Y4	Y3	Y2	Y1	Y0	V40500
POut 02	Y17	Y16	Y15	Y14	Y13	Y12	Y11	Y10	V40500
POut 03	Y107	Y106	Y105	Y104	Y103	Y102	Y101	Y100	V40501