## D0–DEVNETS Think & Do/Entivity Setup

In This Appendix. . . . — D0-DEVNETS Think & Do/Entivity 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**Use the following procedure to setup the D0–DEVNETS adapter with Think & Dofor PC controlStudio.

- 1. Click on Add Driver and SST card is installed.
- 2. Set MAC ID to 62.
- 3. Set baud rate to either125k or 250k.
- 4. Set scanner interval to 0.
- 5. Set timeout shutdown to 5.
- 6. EDS not needed.

Develope Vet (SSD)		
Board 1 Total Nodes=0		
×		
	Befresh Grid	
Attributes	Value	. <u> </u>
Driver Name Dev	viceNet[S-S Technologies]	
Board Number		
Board Configuration	Direct-Link Configuration	
Board Name Driv	ver250 ·	
Board Family 513	36-DN	
1/U Port Address Ux2	250	
	10.000	
Memory Address 0xd	0000	
Memory Address 0xd DeviceNet Configuration	00006	
Memory Address Dxd DeviceNet Configuration 62 Mac ID 62		
Memory Address Ord DeviceNet Configuration Mac ID 62 Baud Rate 125 Consect Interval Consect	ЭКЬ <b>х</b>	
Memory Address Ord DeviceNet Configuration Mac ID 62 Baud Rate 125 Scenner Intervalin msec) 0 Singert On Schuldmenfin Scal	30000 5Kb	

7. Click on connection.	Think & Do/Entivity	will display D0-DEVNETS MacID #.
	PIn and POut will d	lisplay 32 points each. $\wedge$
/		
🖸 Think & Do Studio - ConnectivityCenter - untitle	d.tio - [Configuration]	
Configuration View Drivers Devices Too	lz <u>₩</u> indow <u>H</u> elp	
	B 🕅 MAR BARRE	
DeviceNet (SST)) Board 1 Total Nodes=1	Good Hissing Node-Novile of Duplicate Rolf or Hor Duplicate Rolf or Hor MacID-2 PIn 0.0	or Any Other Error sdule Mismetch 0 POuc 01
Attributes	Befresh Grid Value	
Driver Name	eviceNet[S-S Technologies]	
Board Number		
Board Configuration	Click Here	
Board Name	hiver250	
Board Family	136-DN	
1/0 Port Address	h250	
Memory Address	1xd0000	
DeviceNet Configuration		
Mac ID	2	
Baud Bate	00Kb	
Scanner Interval(in msec)		
Timeout Dn Shutdown[in Sec]		
Install EDS File	Click Here	
		×
Board Info Board Status Mapping Moo or Help, press F1	ule Info / Module Statux Mapping / 1/0 Mapping /	A 82 20 00 100

8. Click on Scan and communication will begin.



Outputs Y0–Y15 (V40500) will display, and bits 0–15 of  $\tt POut$  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. The RLL program is edited using *Direct*SOFT32 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

SW1–4: 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.

DeviceNet(SST)]		
Board 1 Total Nodes=0	Befresh Grid	
Attributes	Value	
Driver Name D	eviceNet(S-S Technologies)	
Board Number 1		
Board Configuration	Direct-Link Configuration	
Board Name Dr	river250 🔹	
Board Family 51	136-DN	
1/0 Port Address 0x	x250	
Memory Address 0x	00006x	
DeviceNet Configuration		
Mac ID 62	2 🔹	
Baud Bate 50	00КЬ 👻	
Scanner Interval(in msec) 0		
(imeout On Shutdown(in Sec) 5		
nstall EDS File	Click Here	

- 7. Click on connection.
- 8. Click on Scan and communication will be setup.



V40401 which shows the active inputs.

but 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		
Pln 02	X7	X6	X5	X4	Х3	X2	X1	X0	V40400
PIn 02	X17	X16	X15	X14	X13	X12	X11	X10	V40400
Pln 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