OIT with D0–DEVNETS

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In This Appendix. . . .

— OIT with D0-DEVNETS and Think & Do/Entivity

Using an OIT with D0–DEVNETS

An Operator Interface Terminal (OIT) can be used on your DeviceNet network. The example used here is for a D0–DEVNETS installed in a PLC on a DeviceNet network. The network is controlled by a PC, with an SST module installed and using Think & Do Studio. The OIT is an EZTouch unit connected to a DL05 PLC. The PLC does not have a RLL program in it.

T&D Studio

You will first map the DeviceNet status.

Connect to the D0–DEVNETS on the DeviceNet network, select **Board Status Mapping** so the status items can be mapped. Map the data and provide a tag name for each item.
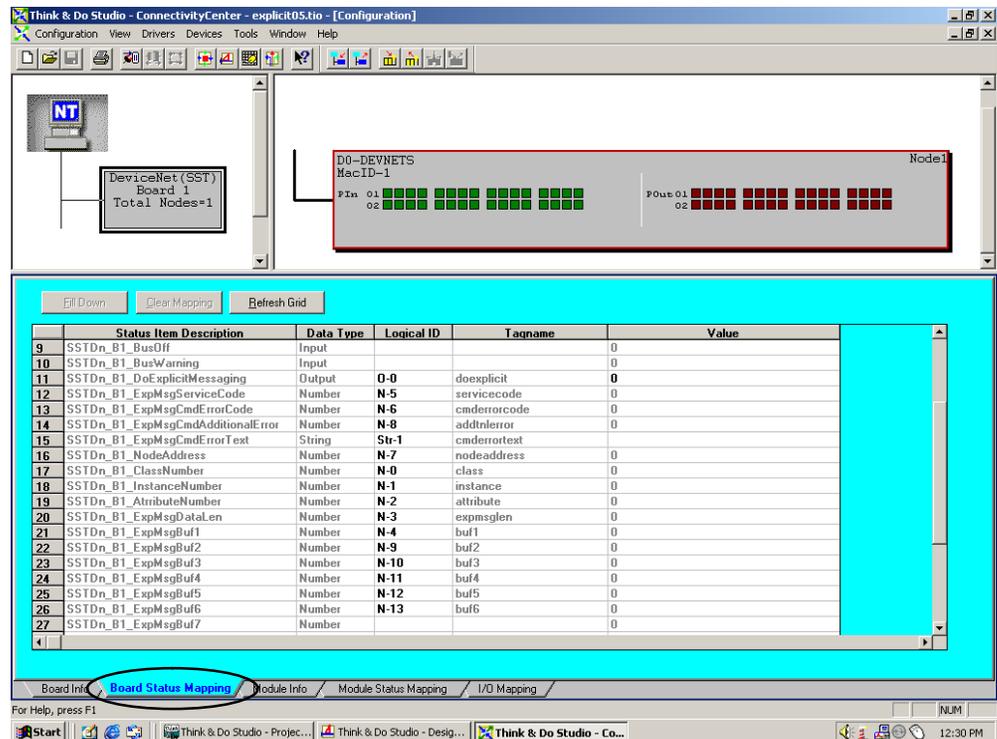
Our example uses three flowcharts. Flowchart 1 Gets the data, flowchart 2, entitled Parsing, breaks down the data and flowchart 3 Sends the data. We will select **GetUpdateOn** first.
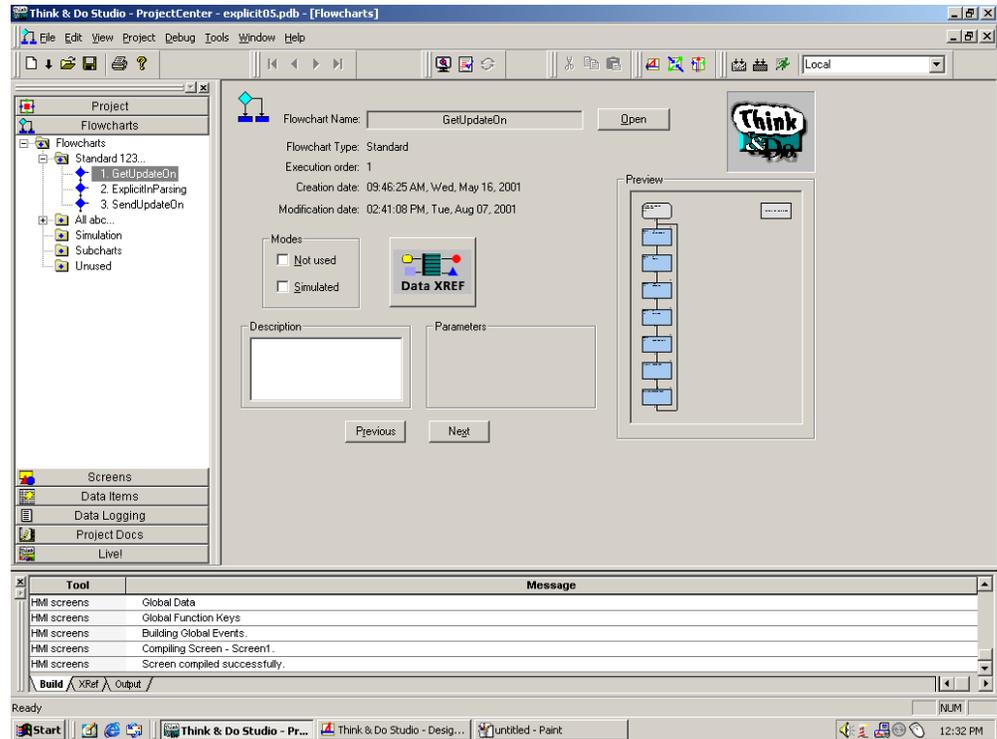
This flowchart shows how to set up explicit messaging to Get (receive) the data. Once the explicit messaging is done, it normally turns off, but in this example, the last block provides a 500 millisecond delay which allows the explicit messaging to turn on again.
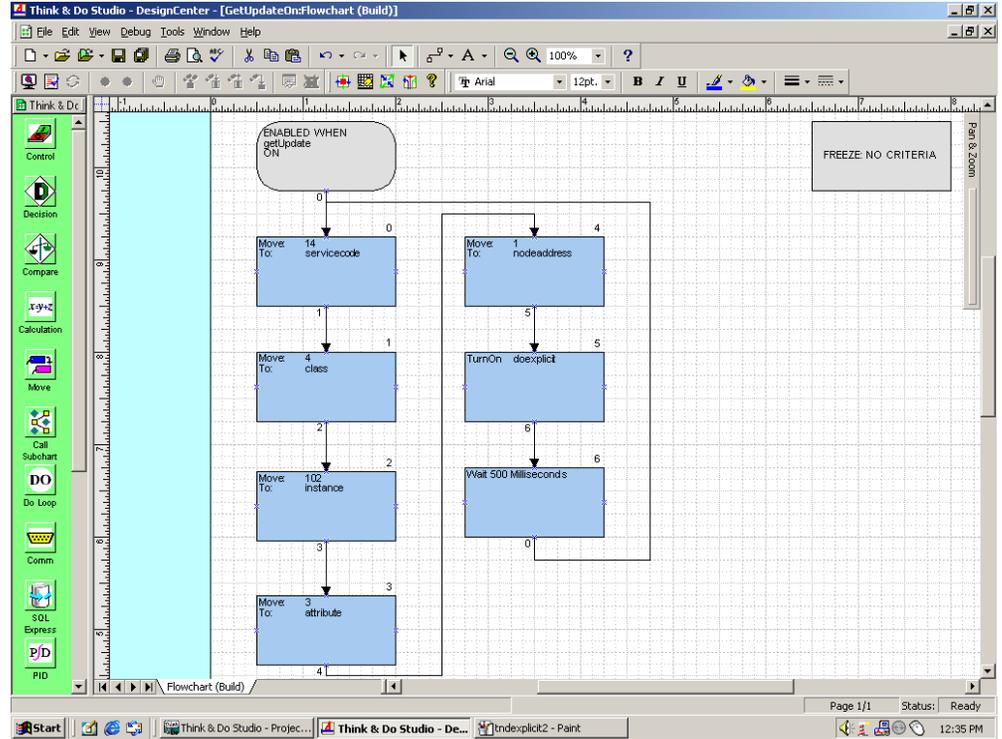
Refer to the DeviceNet tables located in Appendix B when creating your flowcharts.

Since Think & Do Studio has 32 bit registers, the 32 bits must be broken down into two 16 bit registers in order to transmit (send) the correct data to the PLC. This flowchart, Parsing, shows how it is done.
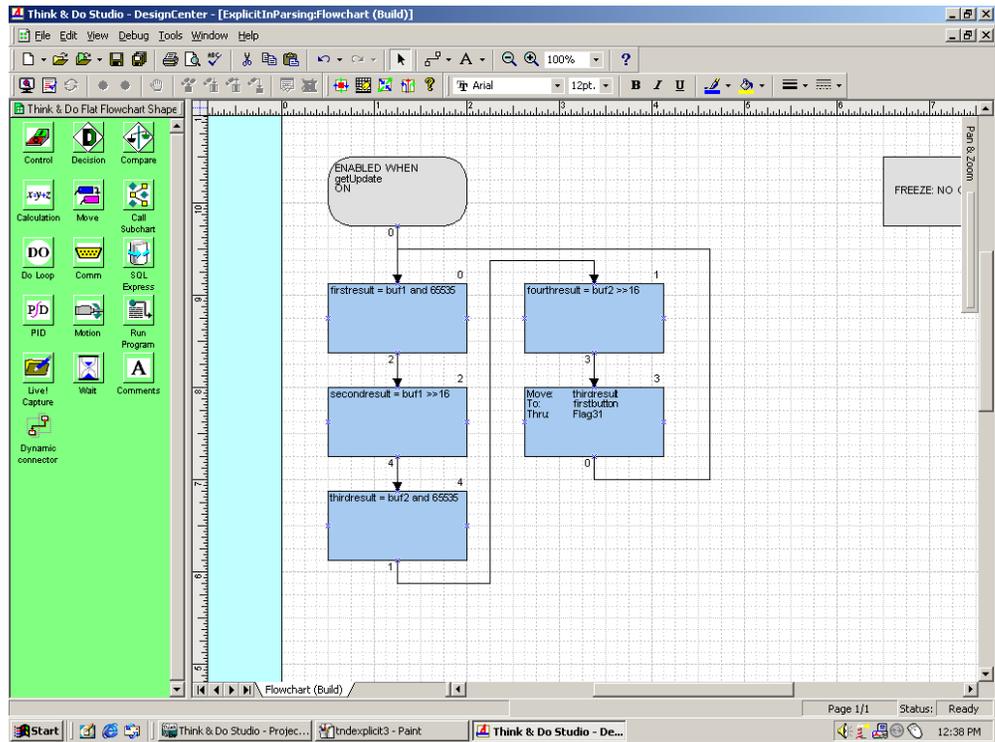
This flowchart, **SendUpdateOn**, shows you how to put the data into a send (transmit) buffer. The data gets cleared out of the buffer whenever each explicit messaging is done, therefore, data needs to be loaded into the buffer before each explicit messaging is turned on. Notice that this flowchart uses a 500 millisecond wait block to allow the explicit messaging to turn on continuously.
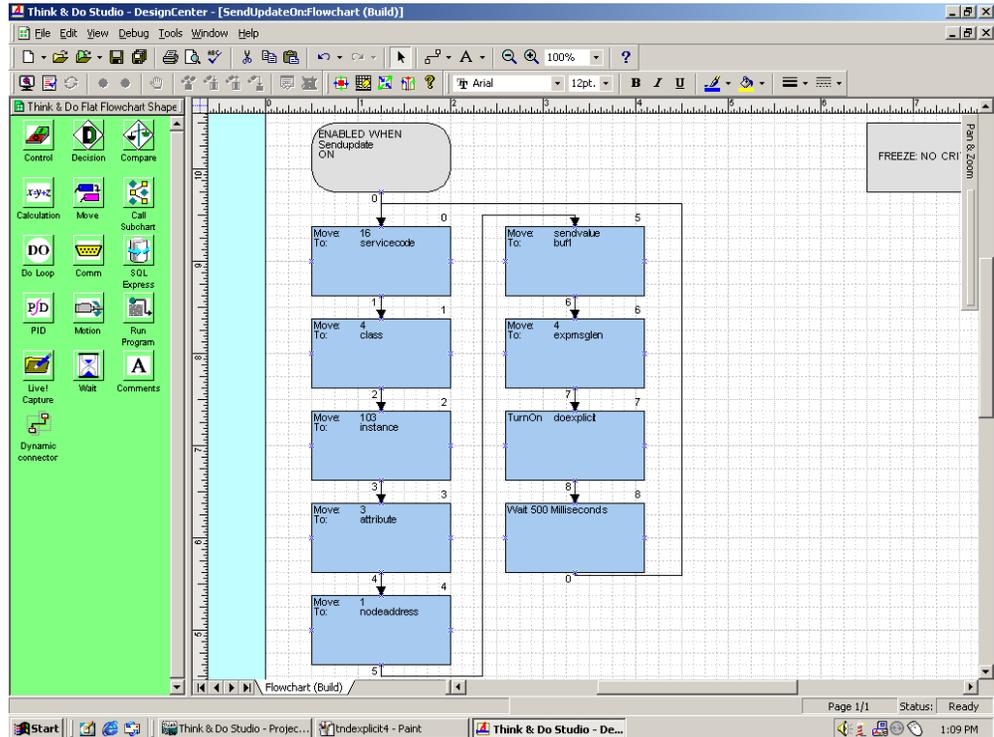
After Think & Do has been setup, the EZTouch panel can be connected to the DL05/06 serial port. Match the communications settings in the EZTouch software to the settings for the DL05/06 serial port setup.

From the development screen, select **Setup** then **PLC...**.

Refer to the diagram below.
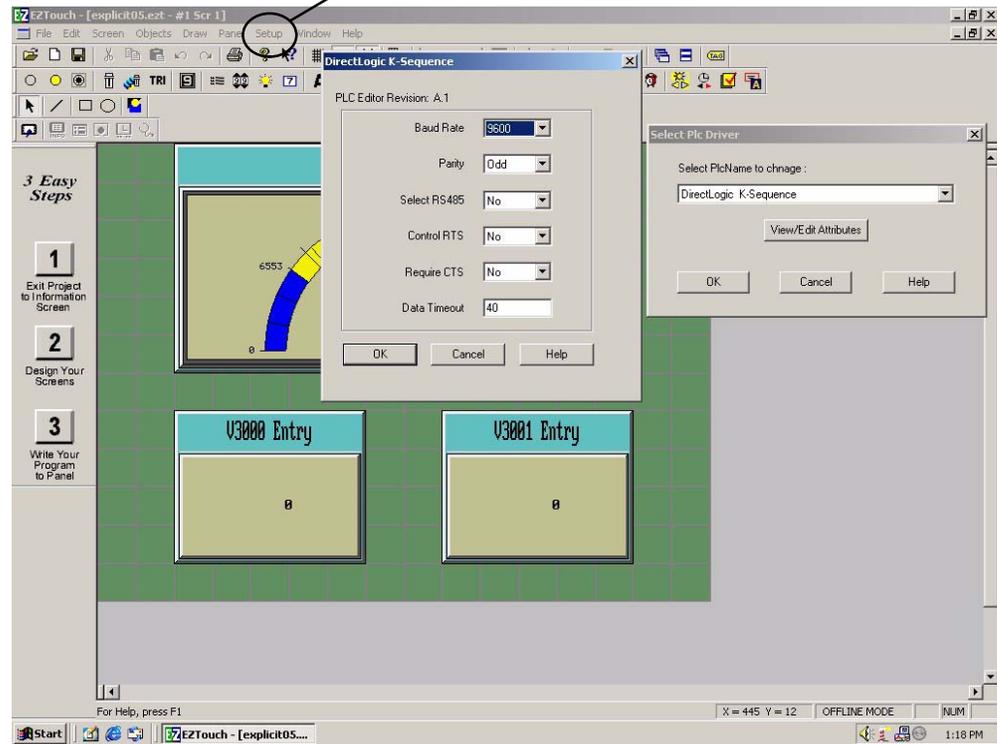
This is an example of a meter display and two numeric entry parts showing the use of the default V–memory input and output locations.
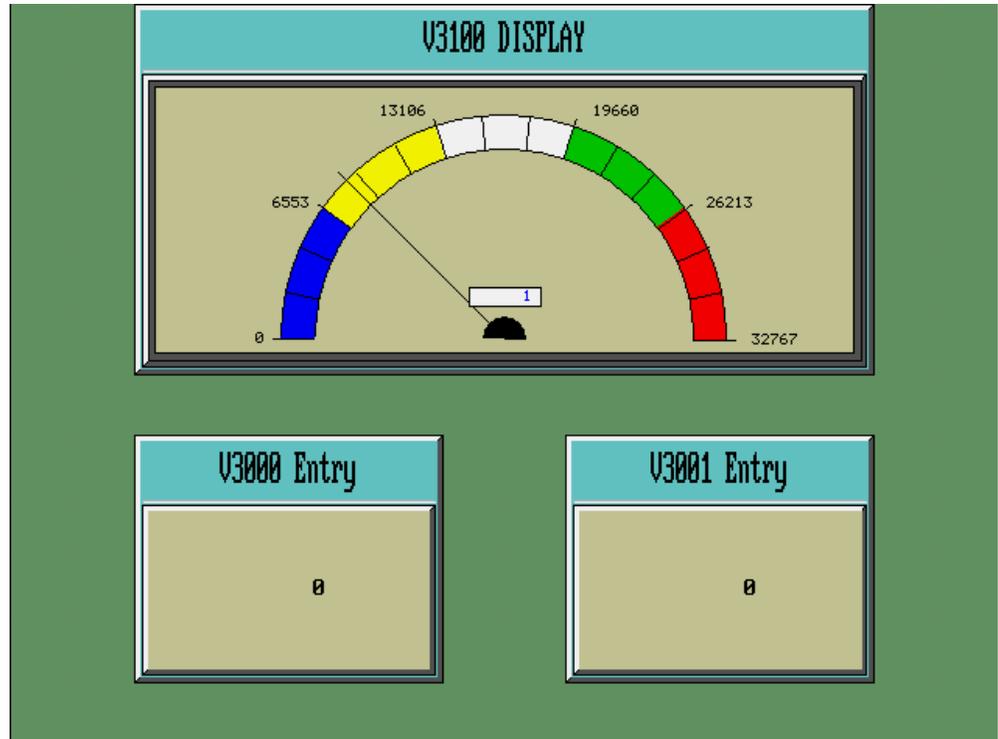
Finish the EZTouch display by completing the input and output information.
Consult the EZTouch User Manual or the EZTouch help menu for more details.

Numeric Entry

General | Scaling | Protection | Visibility/Details

☑ Label Text
Language 1
Character Size 8x32
Label Text V3000 Entry
Position
● Top
○ Bottom

Tag Name V3000

☐ RangeCheck
Minimum 0
Maximum 3276

Format
Data Type Signed

Color
Text
Background   ☐ Blink

EDIT TAG DETAILS

Enter TagDetails for the Tag
V3000

(PlcType: DirectLogic K-Sequence)

Address String V03000

IO Type : R/W
Data Type SIGNED_INT_16

No. of Chars 0

OK   Cancel   Help

Fractional Digits 0

OK   Cancel   Help

Meter

General | Alarms | Digital Display | Visibility/Details

☑ Label Text
Language 1
Character Size 8x32
Label Text V3100 DISPLAY

Select Style

Position
● Top
○ Bottom

Tag Name V3100

☑ Show Ticks
Number of Major Divisions
Number of Sub Divisions
Color
Show Tick Numbers ☑

EDIT TAG DETAILS

Enter TagDetails for the Tag
V3100

(PlcType: DirectLogic K-Sequence)

Address String V03100

IO Type : R/W
Data Type SIGNED_INT_16

No. of Chars 0

OK   Cancel   Help

Needle

OK   Cancel   Help