DH+ to DH485 Passthru via SLC504 to Standard Panelview

The following is a typical set-up using DH+ to DH485 Passthru communications via a SLC504 to a Standard Panelview. The example below assumes the reader has working understanding of SLC, PC and Panelview operation.
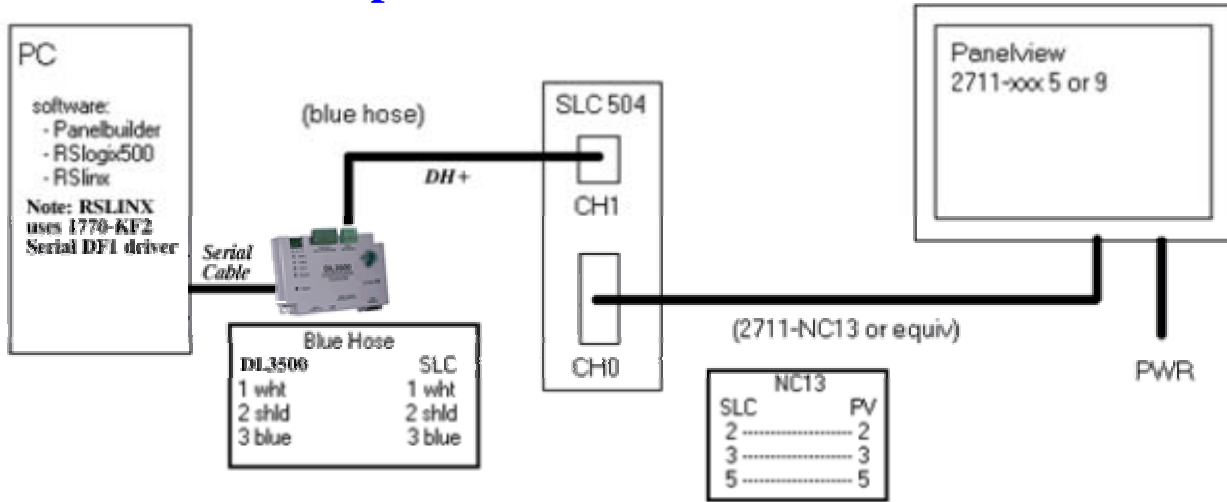
Configuration:

a) DL3500- Node 2 on DH+

b) SLC5/04 – Node 1 on DH+ and DH-485

c) Panelview - Node 2 on DH-485

DH+ - 57.6k baud, Passthru Link ID - 2

DH-485 - 19200 baud, Passthru Link ID 1

SLC5/04 - Status Bits: S:34/0 = 0, S:34/5 = 0 for DH-485 Passthru Enabled

A. Hardware Setup

B. Panelview Terminal Setup

- Using Panelbuilder software (2711ND3 ver 3.2 or greater) setup the PV terminal. This is selected under Application Settings and Terminal Setup. In this example a PV900 DH485 keypad Panelview was used (2711-K9A5).

- Make sure the firmware selection matches Panelview terminal (see "Catalog & Revision Number" selection)
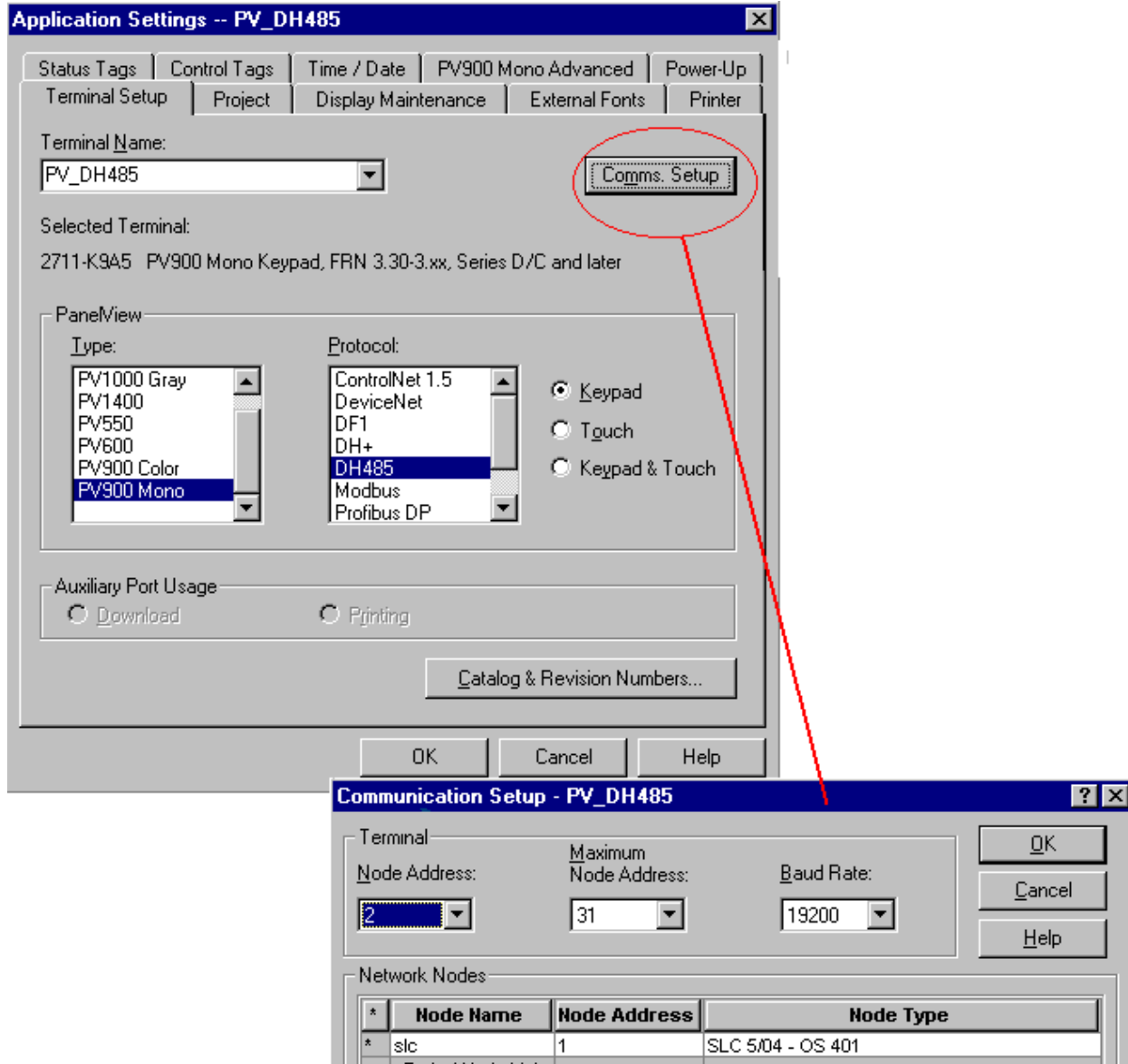
C. RSlogix 500 - SLC504 Channel Configuration

- Setup RSlogix500 for SLC504 using the DF1 serial driver and the DL3500.
- In RSlogix500 under "Processor Status", CH0, make sure that S:34/0 and S:34/5 are both set to "0". This enables the Passthru bridging mode.
- Setup Channel Configuration as shown below. Note that since we have (2) separate networks, DH+ and DH485, the node addresses can be the same. If there were another device on one of the networks that device would need a unique address for that specific network.
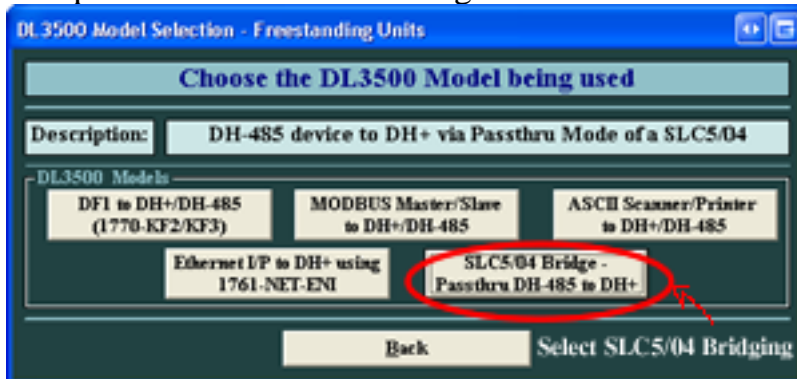- Once configured, download to SLC and put in "Run" mode.
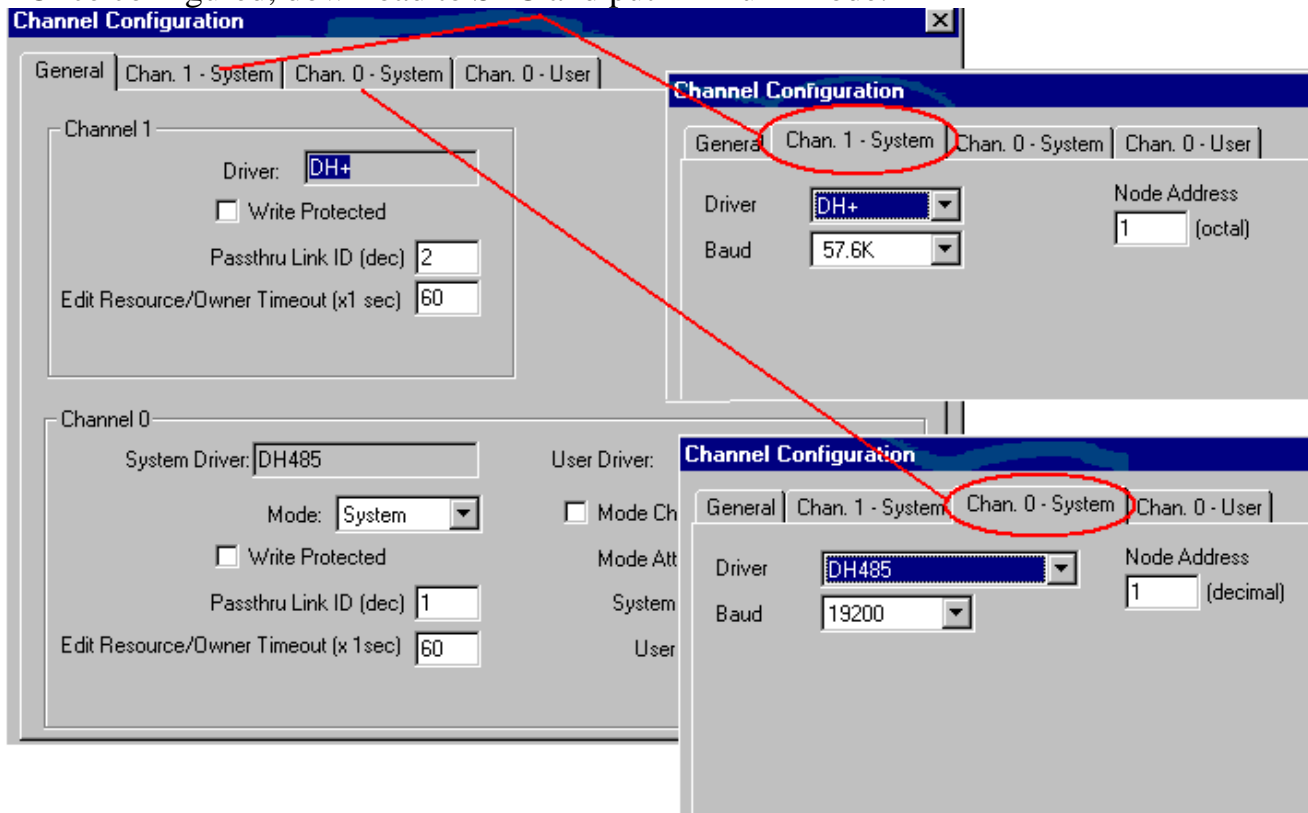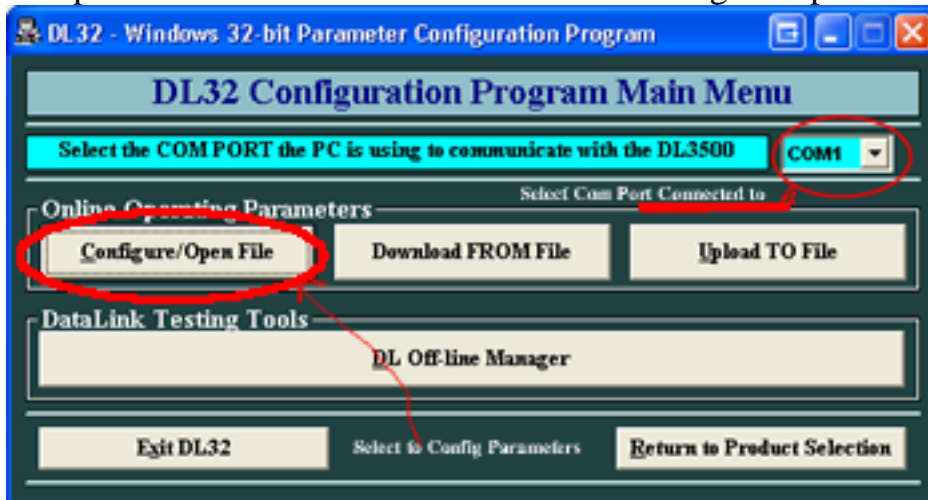
D. Setting up the DL3500-SLC5/04 Bridge Parameters

- Install DL32 – V3.04 or later and setup the DL3500 as follows.
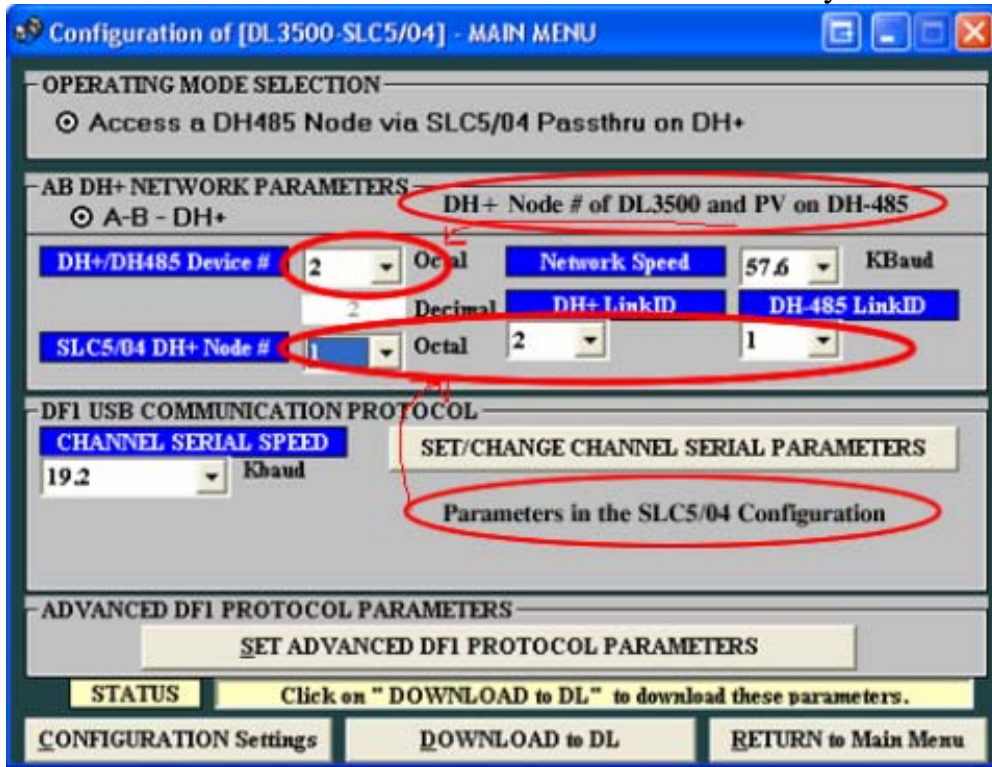- Step 1 – Select DL3500 Model.

- Step 2 – Select SLC5/04 Bridge – Passthru DH-485 to DH+.

- Step 3 – Select the COM PORT and then Configure/Open File.

- Step 4 – Setup the Operating parameters of the DL3500.
- DH+/DH-485 Device #
- SLC5/04's node number
- DH+ and DH-485 Link ID's
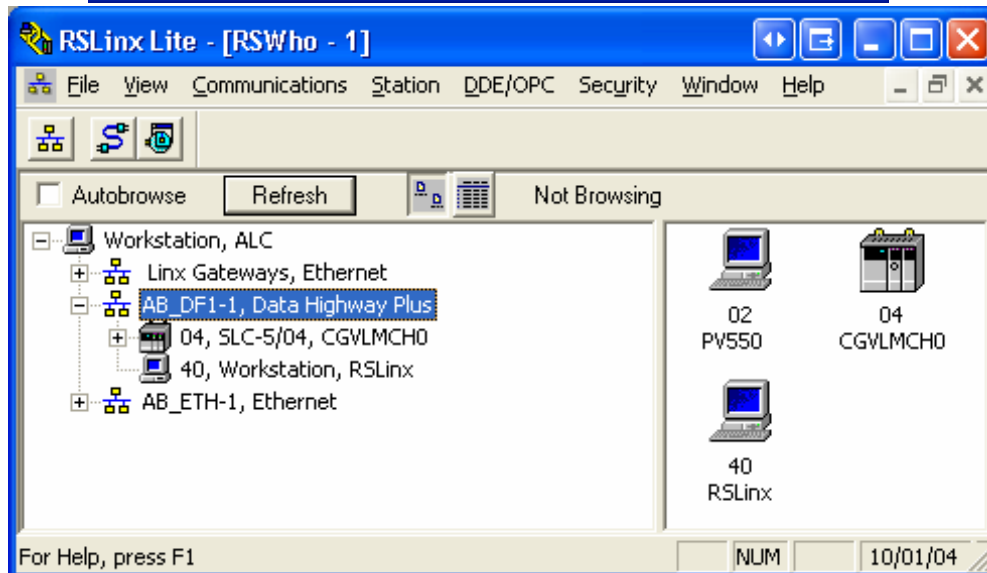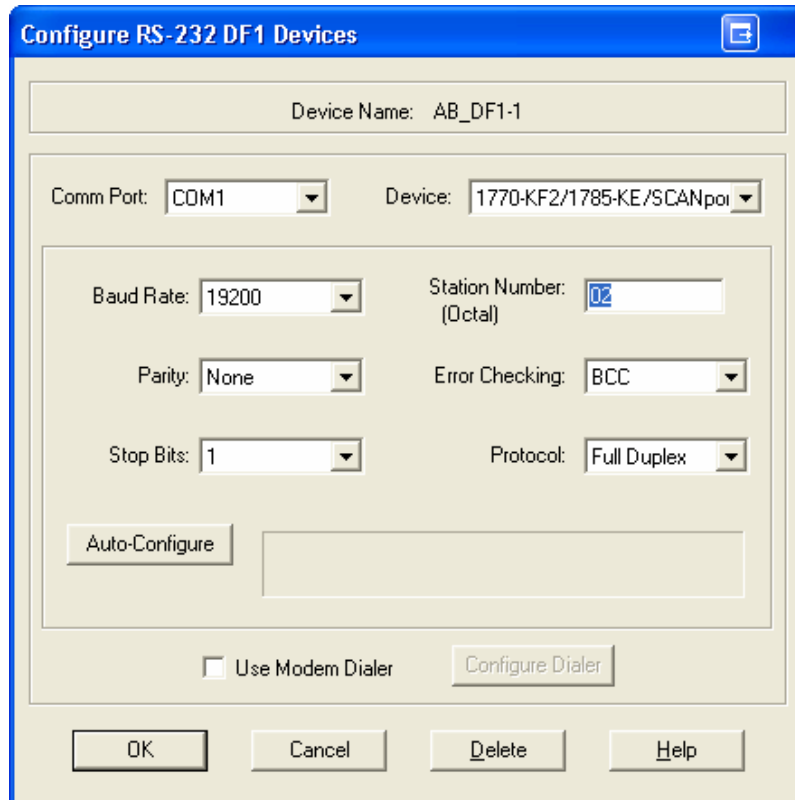- DF1 Protocol Paramters to be used by RSLINX.

- Step 5 – Click on the Download to DL button and follow the prompts.

Note: The DH+/DH-485 Device # is the address the DL3500 will occupy on the DH+. It must correspond to the address of the DH-485 device you wish to communicate across the SLC5/04 Bridge. In this example it is the Panelview at address 2.

E. RSlinx – 1770-KF2 Serial DF1 Driver

- Set up the Station number of the DL3500 and the Baud Rate, Error Checking, etc.
  Click OK
- If installation and settings are correct and a RSwho is done in RSlinx you will be
  able to see both the SLC and PV as the Workstation. (Second picture view)

Configure RS-232 DF1 Devices

Device Name: AB_DF1-1

Comm Port: COM1   Device: 1770-KF2/1785-KE/SCANport

Baud Rate: 19200   Station Number: 02 (Octal)

Parity: None   Error Checking: BCC

Stop Bits: 1   Protocol: Full Duplex

Auto-Configure

☐ Use Modem Dialer   Configure Dialer

OK   Cancel   Delete   Help

RSLinx Lite - [RSWho - 1]

File View Communications Station DDE/OPC Security Window Help

☐ Autobrowse   Refresh   Not Browsing

- Workstation, ALC
  - Linx Gateways, Ethernet
  - AB_DF1-1, Data Highway Plus
    - 04, SLC-5/04, CGVLMCH0
    - 40, Workstation, RSLinx
  - AB_ETH-1, Ethernet

02 PV550   04 CGVLMCH0

40 RSLinx

For Help, press F1   NUM   10/01/04

F. Download/Upload to PV

- Once the above steps have been completed you can now either upload or download an application.
- To download, goto your application in Panelbuilder and select download under "File". If the application validates with no errors a window (see below) will appear. Under "Transfer Type" select RSLinx Network, highlight Panelview then "OK". Your application should begin to download.
- To upload, goto "File" in Panelbuilder and select upload. A similar window will appear where you will again need to select RSLinx Network under "Transfer Type". There are some other selections in this window you will need to consider so please read options carefully. Once completed select "OK".