GRASS VALLEY GROUP

OMNIBUS INTERFACES

Installation Instructions

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KALYPSO

VIDEO PRODUCTION CENTER

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OmniBus Interfaces

Introduction

The Kalypso system uses OmniBus facility management interfaces for machine control. These interfaces reside outside the Kalypso system, on the controlled devices themselves. Different installation procedures are used for the various interfaces. After the interfaces are installed, OmniBus facility management software residing either on the Kalypso system or elsewhere in your facility will need to be configured to recognize the devices.

This document covers the installation of interfaces (software and/or hardware) on the Kalypso system and on external devices. It also describes the OmniBus configuration required to support the devices.

This document does not cover installation or configuration procedures used when OmniBus applications are not located on a Kalypso system, and does not cover OmniBus user interface operation (see the end user documentation available from OmniBus).

OmniBus Software Installation

What You Should Install

CAUTION Only one instance of the OmniBus Sharer and System Manager programs should run on a facility network.

OmniBus Sharer, System Manager, and OUI software is included on the Kalypso Software CD. This software can be installed on a Kalypso system using the Kalypso install program. An Omnibus Sharer and System Manager must be installed somewhere in your facility to control a Profile or VTR with the Kalypso system, but only one instance of these programs should be installed.

- If you are running a stand alone Kalypso system, you should install all the OmniBus software components from the CD (see page 2).
- If you have Omnibus already running at your facility, then do not install these components on the Kalypso system. You should install only the OUI for configuration and OUI machine control (see page 7).
- If you have more than one Kalypso system on the network, then the Omnibus Sharer and System Manager should be loaded on only one of these systems.
- Multiple versions of the OUI can safely reside on the network.

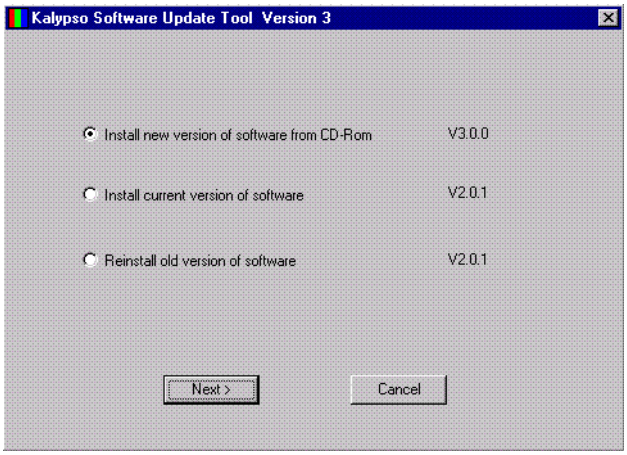
Install All OmniBus Software

If OmniBus is not installed elsewhere on the network, install all the OmniBus software onto the Kalypso system.

1. Follow the first three steps of the Kalypso system installation.
   a. Stop any running applications.
   b. Insert the *Kalypso Software CD*.

c. Select **Install New Version** (Figure 1). The Install current and Reinstall old options are inactive for OmniBus software.

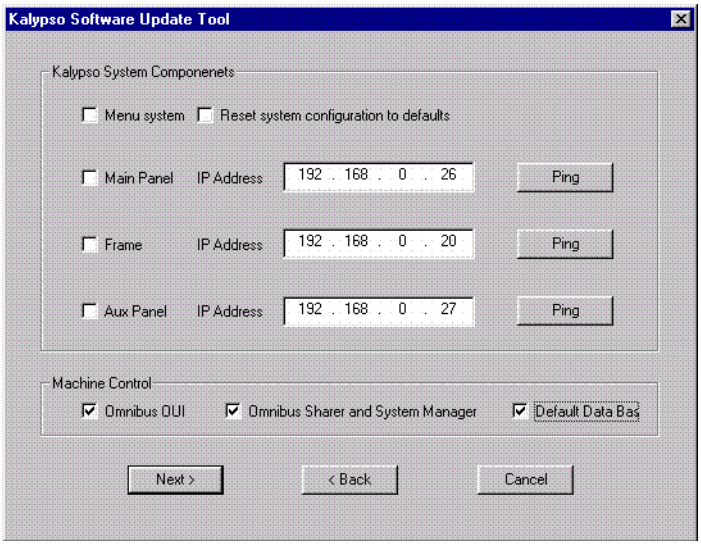
Figure 1. Kalypso Install Screen 1



2. Click **Next>**. Three OmniBus installation options are available To install all software for the first time, check all three boxes (Figure 2).

CAUTION If you are reinstalling OmniBus software, you will probably only want to check the first two boxes, as explained below.

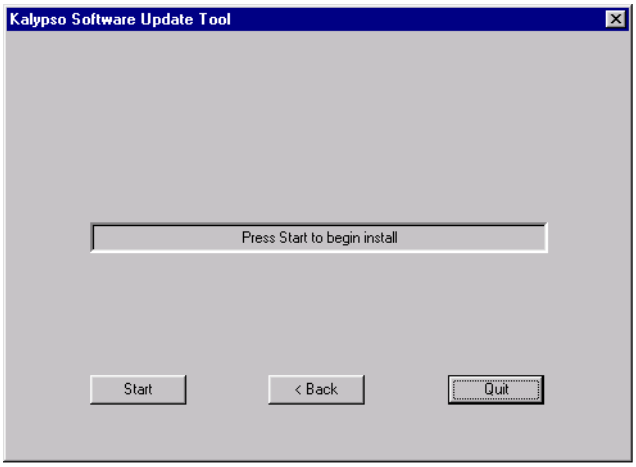
Figure 2. Omnibus Install Screen 2



- OmniBus OUI – Installs the OmniBus User Interface on the Kalypso Menu panel processor.
- OmniBus Sharer and System Manager – installs these OmniBus components on the Kalypso Menu panel processor.
- Default Database – Creates a default OmniBus database for use with a default IP address Profile. This option only needs to be selected the first time OmniBus is installed, and should not be used again (OmniBus configuration information may be lost).

3. With the correct options are selected, touch the **Next>** button. A third screen will appear (Figure 3).

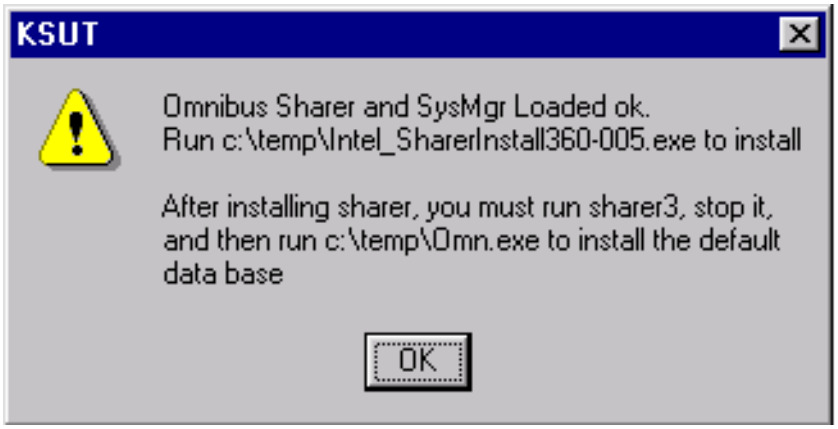
Figure 3. OmniBus Install Screen 3



Click **Start** to begin the installation. When the selected components files have been copied from the CD, prompts will appear depending on what options have been selected. To complete the OmniBus installation, you must follow the instructions on all the prompts displayed.

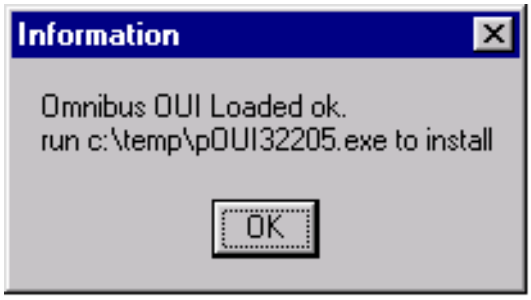
4. If the prompt appears in Figure 4, you selected the Sharer/System Manager and Database installation options. Touch **OK**.

Figure 4. OmniBus Sharer and System Manager Prompt



5. If the prompt appears in Figure 5, you selected the OmniBus OUI installation option. Click **OK**.

Figure 5. OnmiBus OUI Prompt



6. You must now run all the OmniBus applications loaded:
   a. Use standard Windows methods to run the executable at: C:\Temp\Intel_SharerInstall(xxx).exe. Press **Continue** and use the default values.
   b. Run the **SHARER 3** application (it should have a shortcut on the desktop. This runs in minimized mode, so may not be visible on the screen.
   c. Run the executable at: C:\Temp\Omn.exe. Use the defaults and press **Extract**. This will run PKZip (hidden) and extract the database.
   d. Run the OmniBus User Interface executable at: C:\Temp\pOUI(xxx).exe. This will include in the database the Kalypso IP addresses specified during that Kalypso system's software installation, and assumes the default IP Address for the Profile VDR (192.168.0.10) will be used.
7. When all the applications have been run, the OmniBus installation will be complete.

Note To use a Profile with the Kalypso system, VDRCS interface option software must be installed on the Profile and configured. To use a VTR, an OmniBus Serial Engine and VSVC software must be installed and configured.

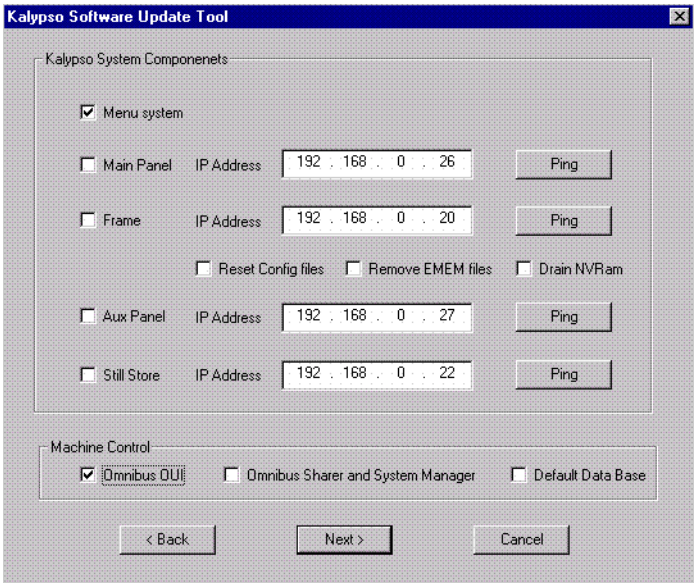
8. Close the OUI Read Me window.
9. Double click on the Kalypso Menu icon to open the Kalypso application.
10. Skip the *Install Only OUI Software* procedure below.

Install Only OUI Software

If you have an existing OmniBus system, install only the OmniBus OUI software onto the Kalypso system, and do not install the Sharer or System Manager. The OUI provides an alternative method to control the Profile or VTR.

1. Follow the Install All OmniBus Software procedure starting on page 12, but check only the **OmniBus OUI** checkbox during the installation (Figure 6).

Figure 6. OmniBus OUI Only Installation



2. Run only the OmniBus User Interface executable at: C:\Temp\pOUI(xxx).exe.

Environment Variable Correction

After a Kalypso system reboot the OmniBus OUI should load automatically. If this does not occur, and clicking on the **wincui** icon on the desktop causes only a screen flash, you will need to change an environment variable.

1. Right click on the **My Computer** icon on the desktop.
2. Select the **Environment** tab.
3. Scroll to the **Omni$ProtMapperLocation** variable. This should not include WINNT\System32\Drivers\etc. Edit the variable to read:

   C:\OmniBus\!OmniLib\Modules\Portmapper.exe

Profile Interface

OmniBus Profile Interface Software Components

The Profile interface software supplied by OmniBus consists of:

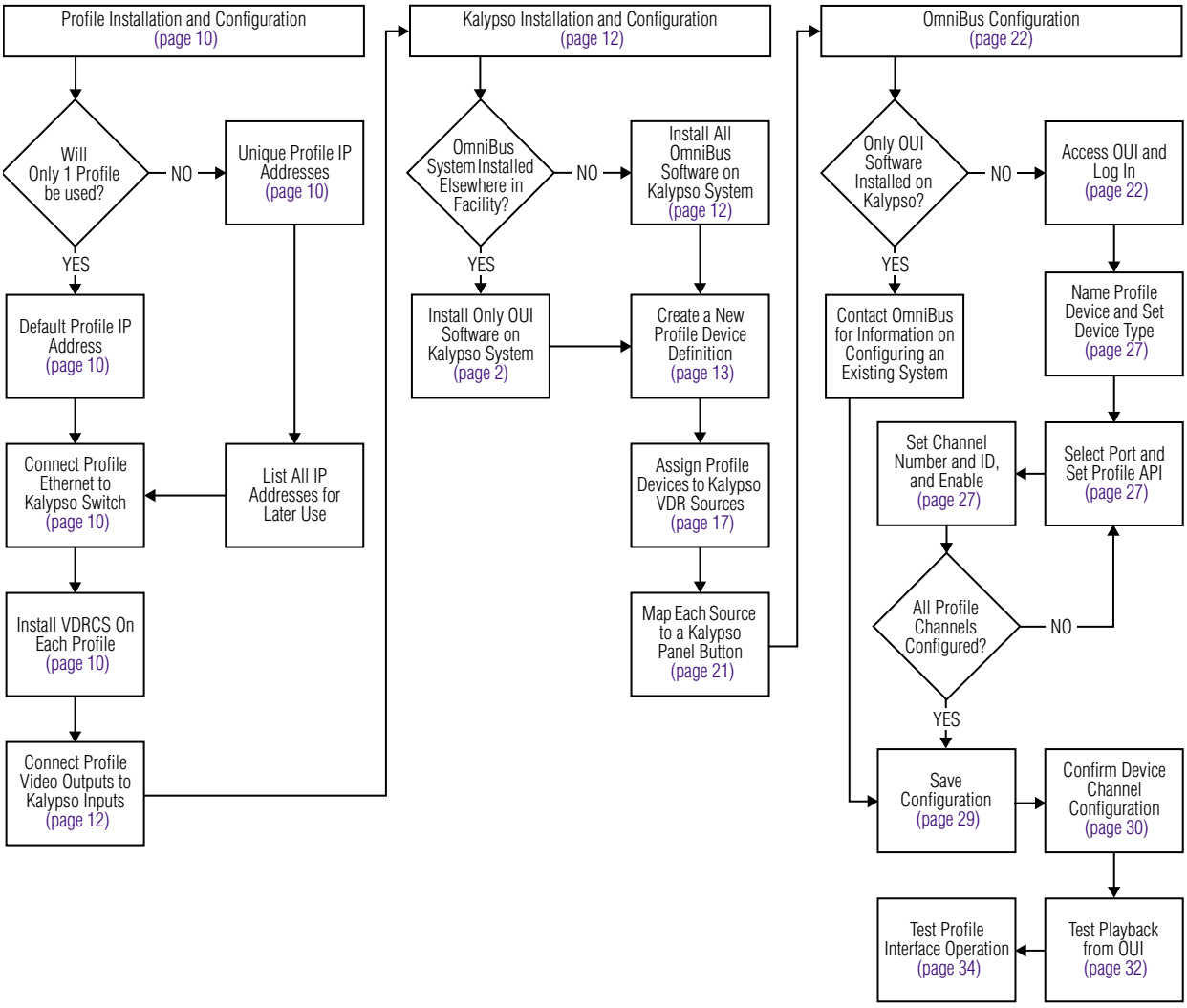
- a VDRCS application (available as an option installed on the Profile itself),
- a Sharer application, responsible for overseeing the entire OmniBus network (provided on the Kalypso Software CD),
- a System Manager application, used to configure users and their access to the network (provided on the Kalypso Software CD), and
- an OUI (OmniBus User Interface) application (provided on the Kalypso Software CD).

The Omnibus Sharer and System Manager must be installed somewhere in your facility to use Kalypso system machine control. However, only one instance of these programs should be running on the network.

Overall Profile Configuration Procedure

Interfacing a Profile VDR with the Kalypso system involves configuring the Profile VDR itself, the OmniBus software used for system integration, and the Kalypso system (Figure 7). All three procedures must be completed in the order displayed in the flow diagram.

Figure 7. Profile Interface Flow Diagram



Profile Installation and Configuration

Default Profile IP Address

If only one Profile is involved, use its default IP address.

Unique Profile IP Addresses

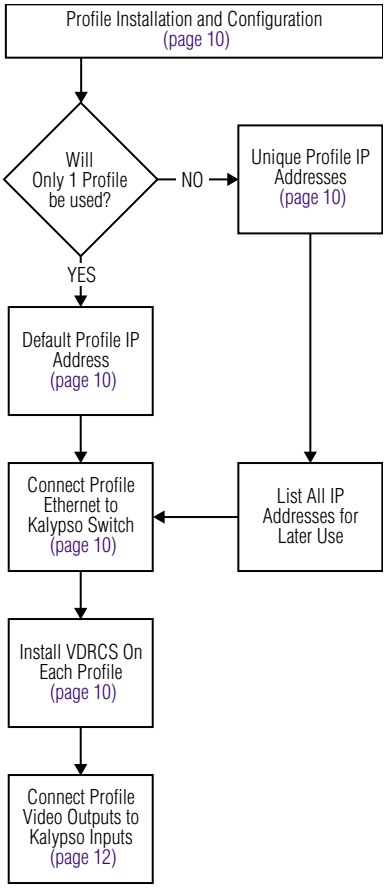
Give each Profile a unique IP address if more than one Profile will be used. Profile IP Addresses are changed using standard Windows NT methods. See the *Profile Network Manual* for specific information.

Connect Profile Ethernet to Kalypso Switch

The Kalypso system uses an Ethernet Switch for system communications. Connect the Profile VDR Ethernet port to the Kalypso switch.

Install VDRCS On Each Profile

Note Install on PDR100, 200, and 300, only. Do not use this procedure for Profile XP models.



A Profile VDR is controlled from the Kalypso system using the Grass Valley KAL-IF-PROFILE option, which includes OmniBus VDRCS software. The Profile VDR itself must be configured for this purpose. The software is supplied on two floppy disks. PDR100, 200, and 300 models are supported by VDRCS. When installed on a PDR100, a batch file must also be edited so the correct application will load.

To Install the Interface Software:

1. Insert **KAL-IF-PROFILE Disk 1** into the PDR's floppy disk drive.
2. Run the Setup application, by clicking **Start**, **Run**, and then typing **`A:Setup`**. An installation program will run.
3. Click on **Next** to continue the installation. During the install you can view the **read.me** file if you wish. A **Setup Complete** message will appear at the end of the install. Click **OK**.
4. Remove the OmniBus Setup disk and insert **KAL-IF-PROFILE Disk 2** into the Profile's floppy disk drive.

5. Click on **My Computer**, and double click on the **Floppy A**: icon.
6. Double click on the **VDRCS_1.5** file. The application will self extract and install itself.
   - If you installed on a PDR200 or 300, the VDRCS installation should be finished. The default batch file just installed (c:\App_Omn\Appstart.bat) runs the **app_vdr.exe** program which supports these models.
   - If you installed on a PDR100, see *To Edit the Batch File for PDR100* below.
   - If you are using OmniBus to control Fiber Channel or a PLS200 is connected to the Profile, see *To Edit the Batch File for Fibre Channel or PLS 200* below.
7. Make a shortcut on the desktop from c:\App_Omn\Appstart.bat, and run the batch file to test that VDRCS starts.
8. Remove the floppy disk and store in a safe place.
9. Startup the Profile and Kalypso systems in the normal manner.

To Edit the Batch File for PDR100

If you installed on a PDR100, the batch file needs to be edited. The **app_100.exe** application is used with DPR100 models (instead of **app_vdr.exe**).

1. In the c:\omnibus\app_omn\vdrcs\!run.bat file, edit the line

   ```
   start "OmniBus VDRCS " !App_Vdr\app_vdr.exe
   ```

   to read:

   ```
   start "OmniBus VDRCS " !App_Vdr\app_100.exe
   ```

2. Save the edited batch file.
3. Make a shortcut on the desktop from c:\App_Omn\Appstart.bat, and run the batch file to test that VDRCS starts.
4. Startup the Profile and Kalypso systems in the normal manner.

To Edit the Batch File for Fibre Channel or PLS 200

The **c:\omnibus\app_omn\AppStart.bat** file needs to be edited to use Fibre Channel or PLS2000.

1. If you will be using OmniBus to control Fibre Channel clip transfers, remove the REMs from the following section:

   ```
   REM echo Starting App_Fibre . . .
   REM start "OmniBus Fibre" /D\Omni-
   Bus\App_Omn\!App_Fibre\ /MIN \Omni-
   Bus\App_Omn\!App_fibre\App_Fibre.exe
   ```

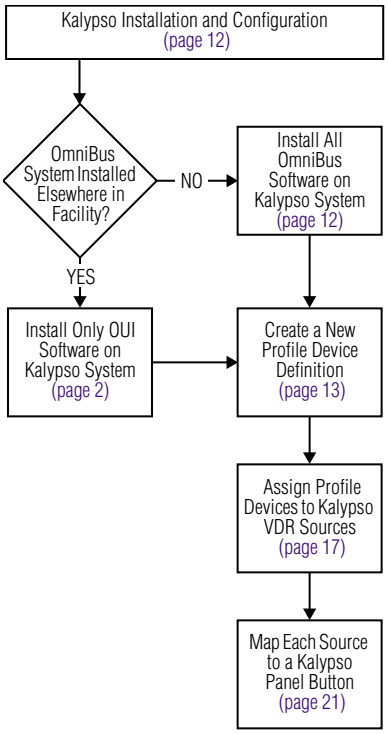
2. If the Profile is connected to a PLS200 remove the REMs from the following section:

```
REM echo Starting App_PLS . . .
REM start "OmniBus PLS" /D\OmniBus\App_Omn\!App_PLS\
/MIN \OmniBus\App_Omn\App_PLS.exe
```

Connect Profile Video Outputs to Kalypso Inputs

The video outputs of each Profile channel being used are attached to Kalypso Input module connectors. List the Kalypso Input module number and J connector number for each connection, for later use when configuring the Kalypso system sources. The order of the channels (1, 2, 3, etc.) will match the names of the Device Definitions.

Kalypso Installation and Configuration



Note If you have Omnibus already running at your facility, then do not install it on the Kalypso system. Similarly, if you have more than one Kalypso system on the network, then the Omnibus Sharer and System Manager should be loaded on only one of these systems.

Install OmniBus Software

Install the appropriate OmniBus software using the Kalypso Software CD (see *OmniBus Software Installation on page 2*).

Create a New Profile Device Definition

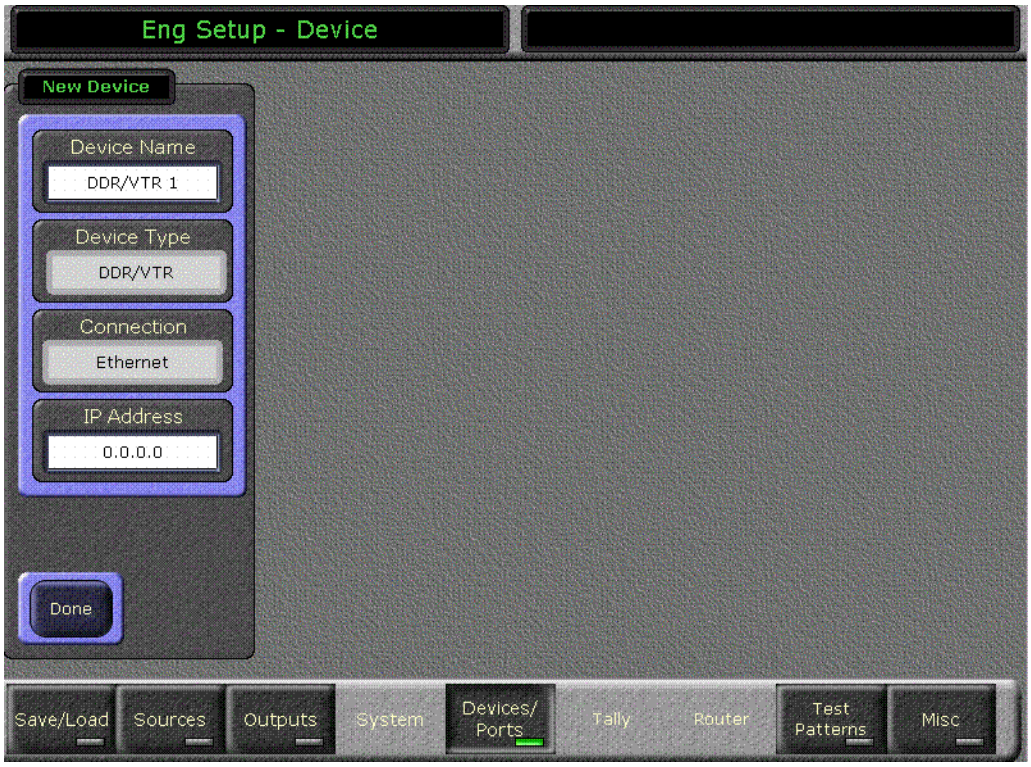
1. Go to the Eng Setup Devices menu by pressing the **Eng Setup** Menu panel button, and touch the **Devices/Ports** category selection button at the bottom of the screen. Touch the **DDR VTR** button to select that device category. A menu similar to Figure 8 is displayed.

Figure 8. Device Definition Menu, No Devices Defined



2. Touch the **New Device** button to display the next menu (Figure 9).

Figure 9. Device Definition Data Entry Menu



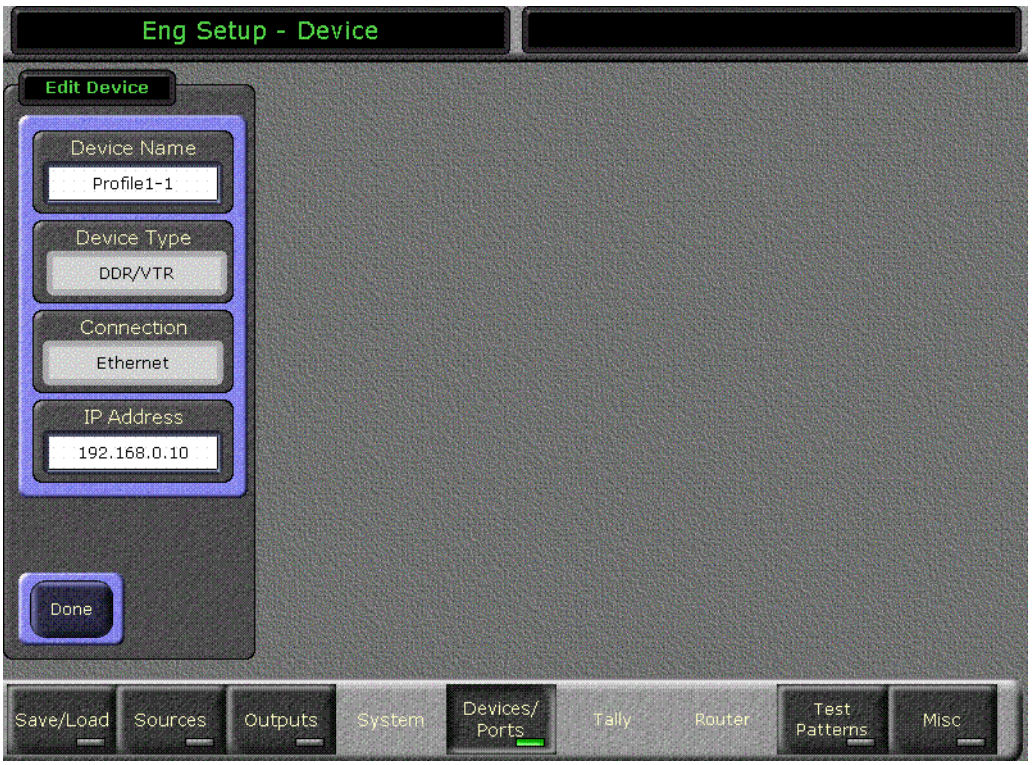
3. Touch the **Device Name** data pad and enter the name you wish to use to identify the device (Figure 10 on page 15).

- Enter **Profile1-1** (no space with dash) for the first channel of a multiple channel Profile system.

CAUTION The Profile **Device Name** entered here must exactly match the name used by the OmniBus system for that Profile channel. The names above are commonly used when an OmniBus system is configured, but may be different at your facility.

4. Touch the **IP Address** data pad and enter its exact value (default Profile VDR address is 192.168.0.10). Figure 10 shows the menu after the name and IP Address have been entered.

Figure 10. Device Definition Menu with Profile Data



5. Press the **Done** button. The previous menu is then displayed and the defined device appears on the list (Figure 11).

Figure 11. Device Definition Menu with a Devices Defined.



6. Repeat this process for every channel of that Profile VDR, incrementing the number by one for each. A four channel configuration is shown in Figure 12.

Figure 12. Device Definition Menu with Four Channel Profile Configuration

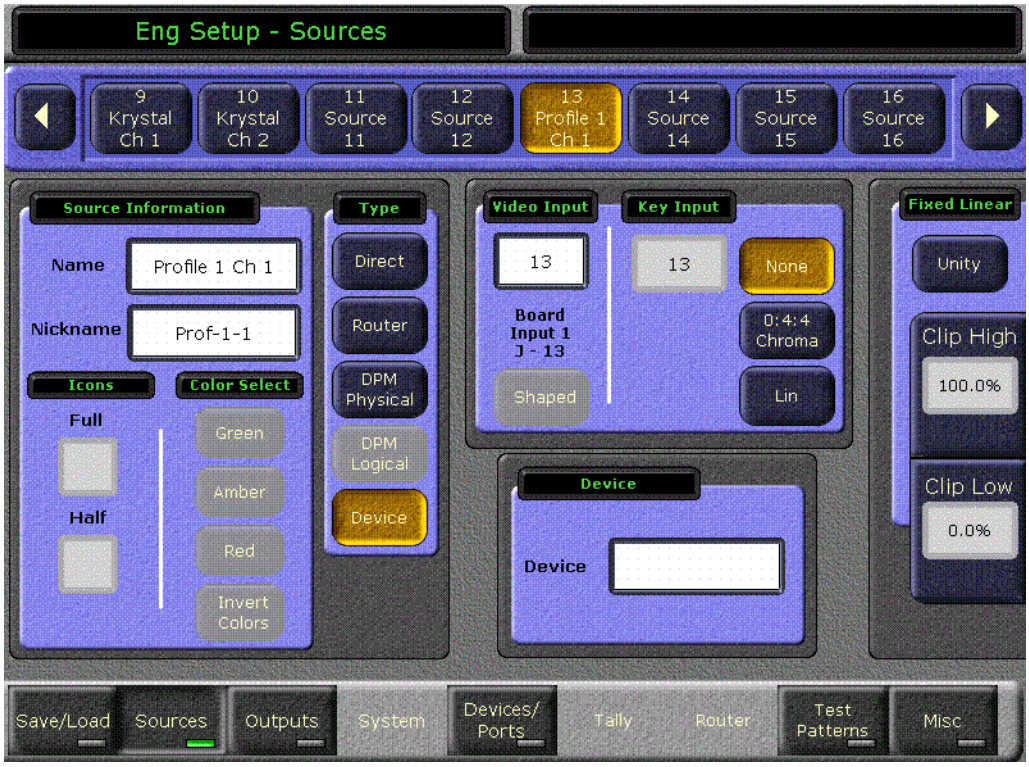


Assign Profile Devices to Kalypso VDR Sources

1. Touch the **Sources** category selection button at the bottom of the screen. Select the source on the scrolling list, name the source with the **Name** and **Nickname** data pads, select the input number(s), and enter any keying information.

2. Touch the **Device** type button. A device window appears on the lower part of the menu (Figure 13).

Figure 13. Source Definition Menu, Available Devices



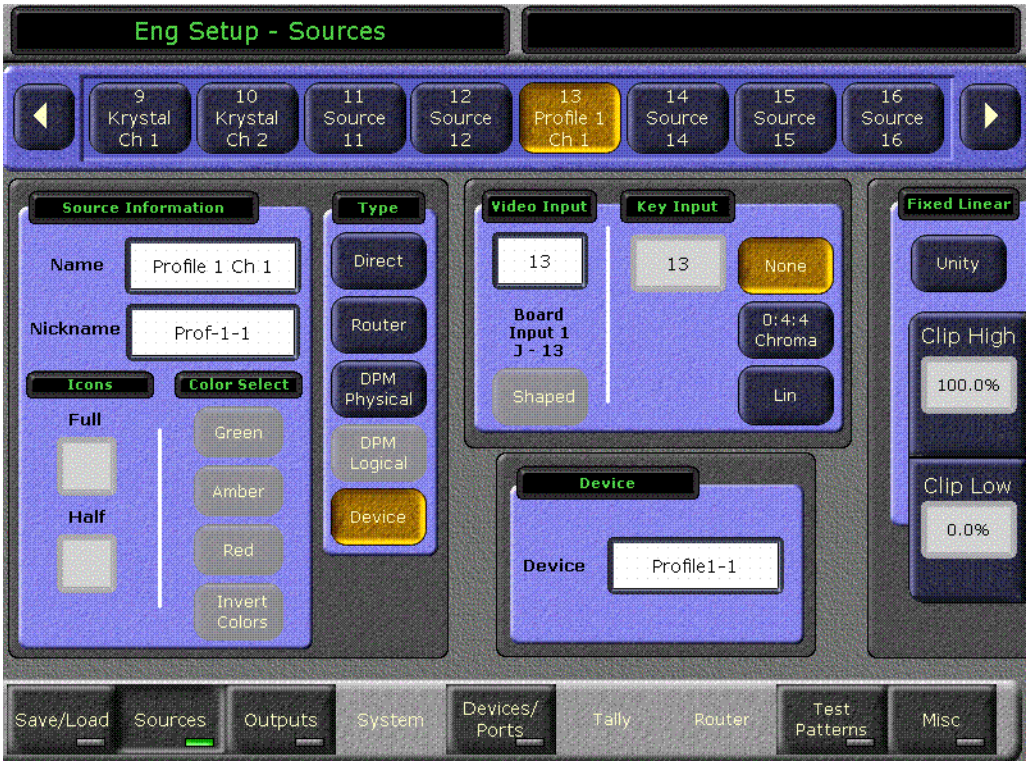
3. Touch the **Device** data pad in the new window. A menu similar to Figure 14 is displayed.

Figure 14. Source Definition Menu, Available Devices



4. Touch the name button of the desired defined device. This assigns that device for control by that selected source, and the previous menu is displayed.

Figure 15. Source Definition Menu, Devices Assigned



5. Assign the remaining devices (if any) to other Kalypso system sources. Each source is now defined as a Profile VDR channel.

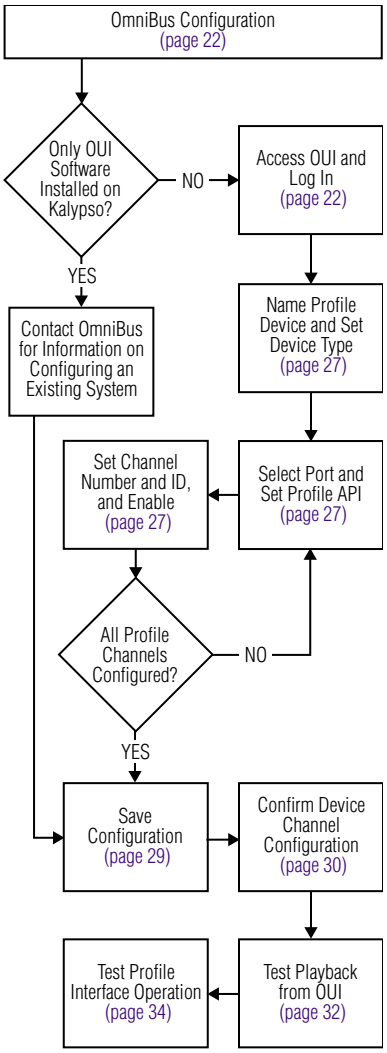
Map Each Source to a Kalypso Panel Button

1. Go to the Button Mapping menu by touching the **Daily Setups** button on the Menu panel, then press **User Prefs** and **Button Mapping** buttons.
2. Assign each Profile VDR source from the right scrolling pane to the desired menu button on the left scrolling pane (Figure 16).

Figure 16. Button Mapping Menu, with Profile Sources Assigned



OmniBus Configuration



Configure OmniBus Software for Profile

After VDRCS has been installed on the Profile PDR model, the OmniBus software itself must be configured, using the OmniBus OUI. The following procedure assumes the OmniBus software and default database were properly installed onto a Kalypso system using the Kalypso software CD. For more detailed information about OmniBus configuration, refer to the OmniBus end user documentation.

Access OUI and Log In

1. Make sure that the Kalypso Menu panel and Profile are both connected to the network and that their IP addresses are on the same subnet.

2. Press the **Fac Mgr** button on the Kalypso Menu panel, or double click on the **wincui** icon on the Windows NT desktop go to the OmniBus OUI (Figure 39).

Figure 17. OmniBus OUI



3. Click the **Start** button on the lower left corner of the menu.

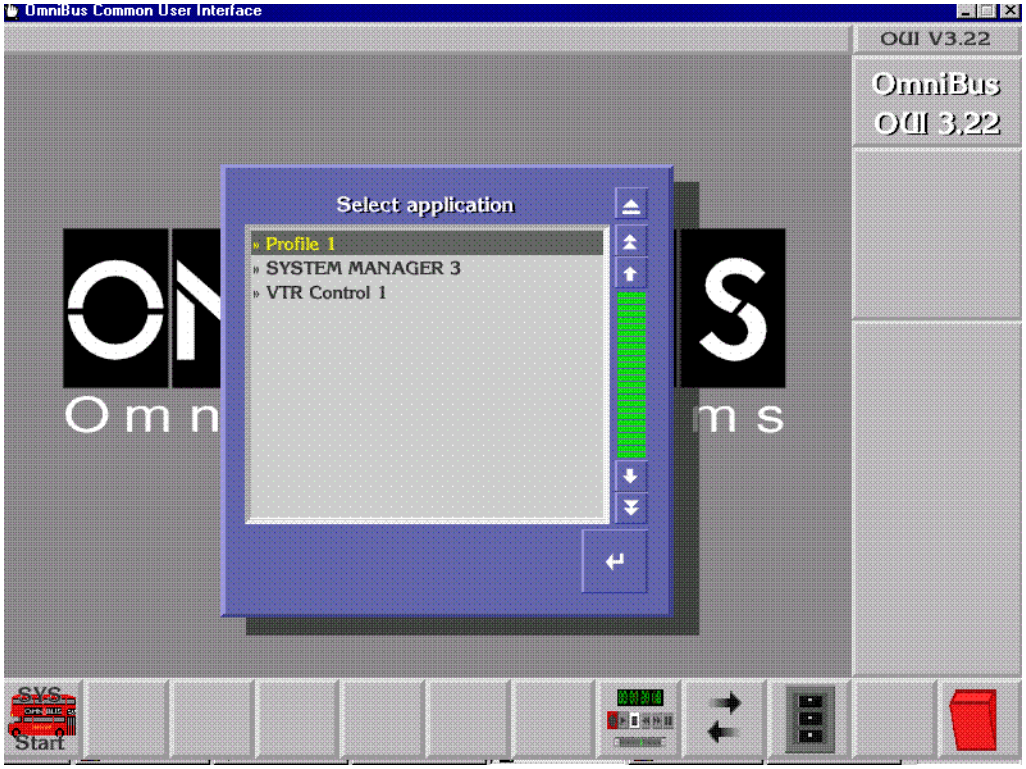
4. If your are not already logged on, a popup keypad will appear. Log on by typing **SYS** and then pressing the **Enter** key (no password required). A Welcome dialog will appear (Figure 18). Close the Welcome to OmniBus screen by clicking on the upper right triangle symbol Eject box on its own window (do not use the Windows minimize or close boxes).

Figure 18. OmniBus Welcome Message



5. Click the button now labeled **SYS START** on the lower left corner of the menu. A window will appear listing **Profile 1**(Figure 19).

Figure 19. OmniBus Select Application Window



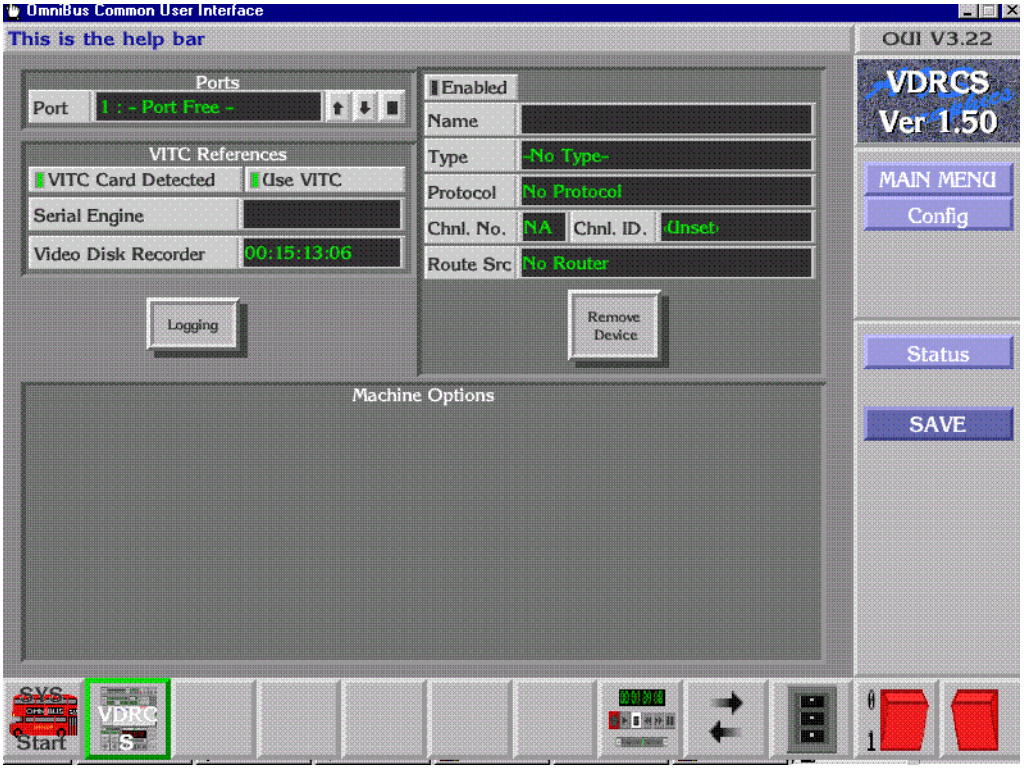
6. Select **Profile 1** by double clicking on it, or click on it once and then click on the large angle arrow Enter button on the lower right of the selection window. The VDR Cue Service menu will appear (Figure 20).

Figure 20. OmniBus VDR Cue Service Menu



7. Select **Config** on the task bar on the right. A configuration window will appear (Figure 21).

Figure 21. OmniBus Profile Device Configuration Window



Name Profile Device and Set Device Type

8. Click on the **Name** field, back space over any existing characters and type **Profile1** (no space) and then press the **Enter** key.

9. Set the **Type** field to **Profile PDRx00** (depending on which type of Profile you are using).

Select Port and Set Profile API

10. Select **Port 1** on the upper left corner of the screen.

11. Set the **Protocol** field to **Profile API**.

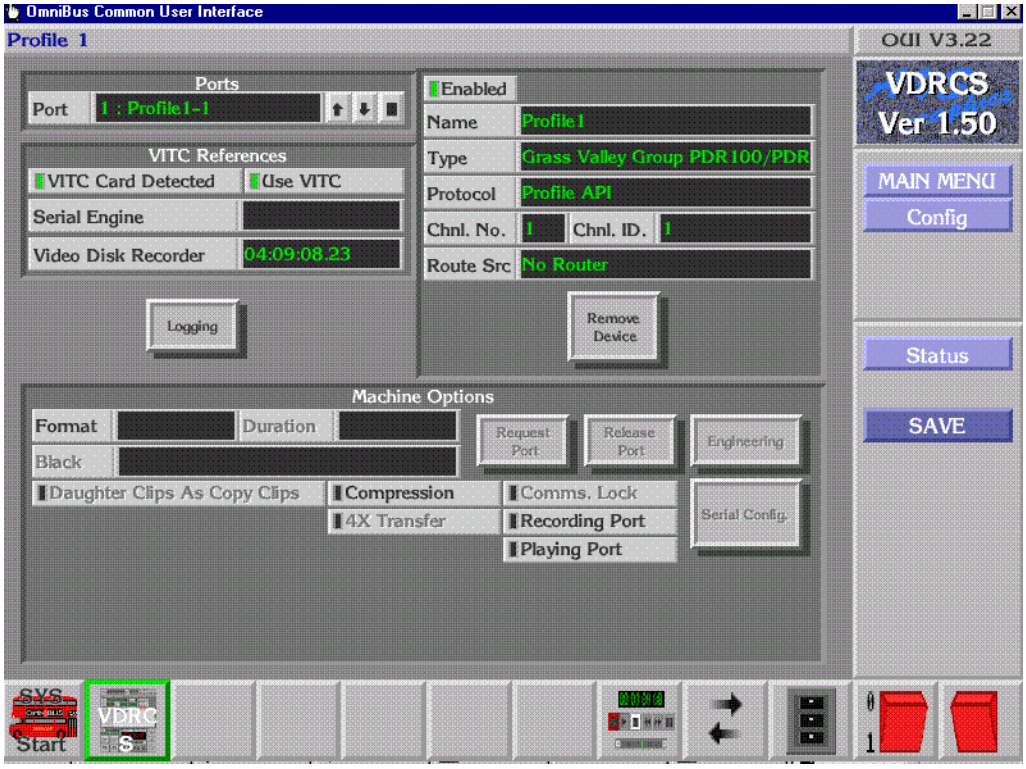
Set Channel Number and ID, and Enable

12. Set the **Chnl. No.** field to **1**.

13. Set the **Chnl. ID** field to **1** (back space over any existing characters).

14. **Enable** channel **1** by selecting the small box above the name field so it is green. Your menu should then look like Figure 22.

Figure 22. OmniBus Profile Device with Configuration Data

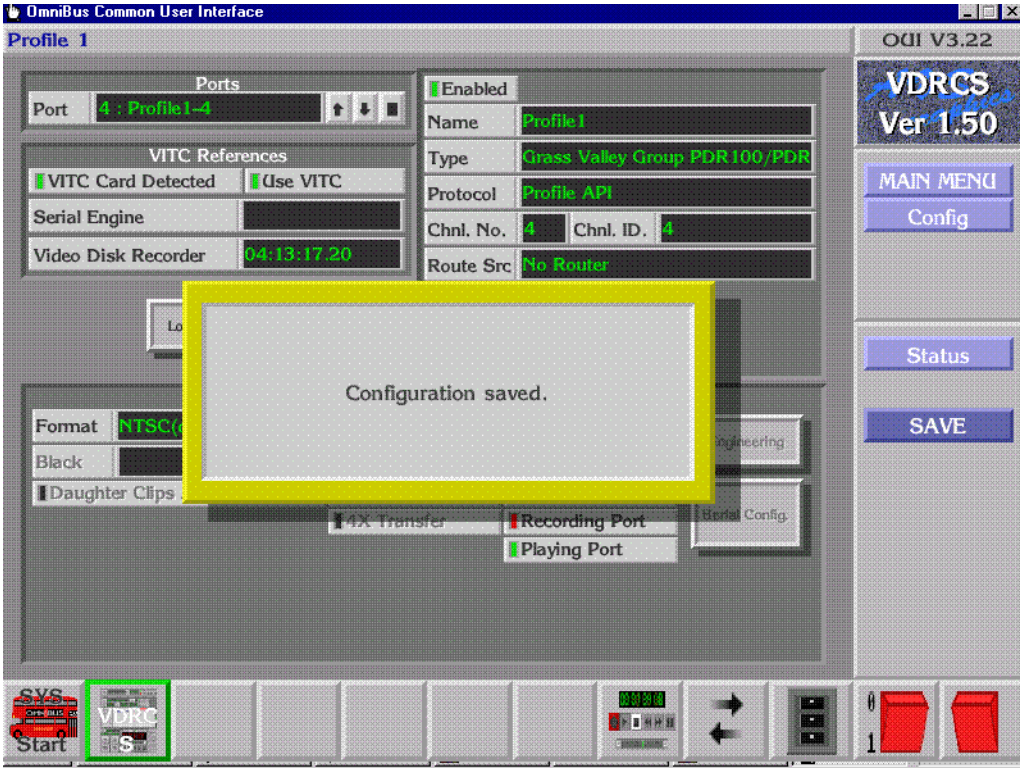


15. Repeat Step 10 through Step 14 for the other channels, using the appropriate Port, Channel No, and Channel ID. Do not change the Name, Type, or Protocol fields.

Save Configuration

16. Click on **SAVE** on the right to save configuration for all the channels. A confirmation message box will appear (Figure 23). Click on the message box to close it.

Figure 23. OmniBus Profile Configuration Saved

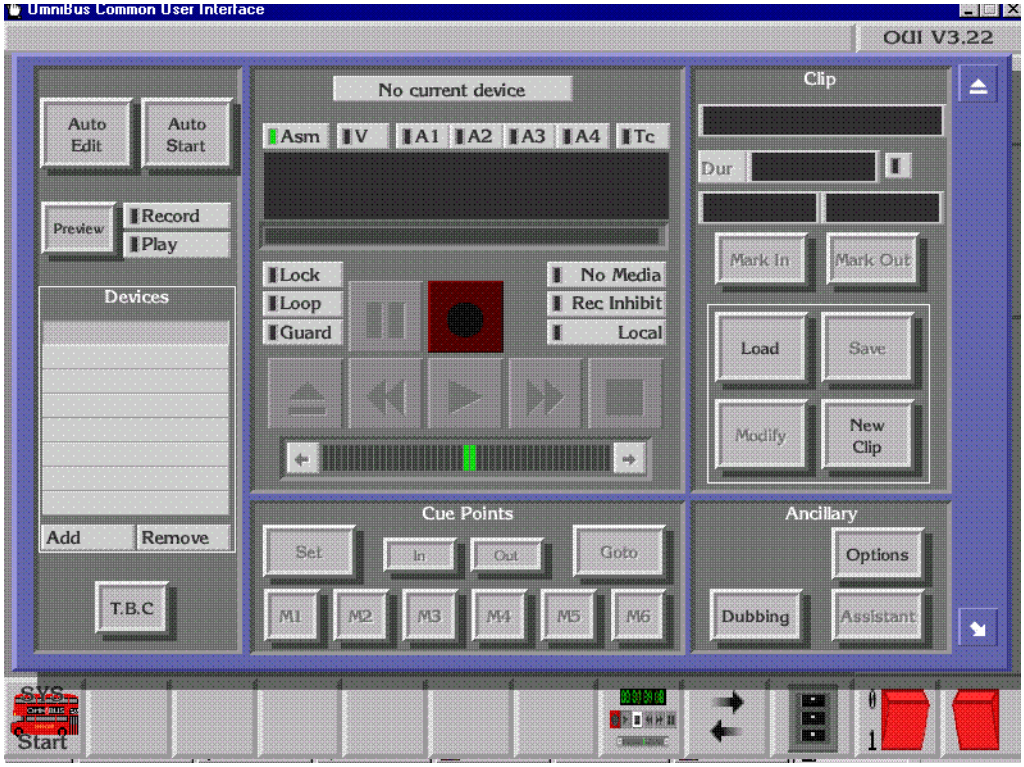


17. **Exit** VDRCS, by clicking on the **MAIN MENU** item on the right task bar, then clicking on the **Disconnect** message box.

Confirm Device Channel Configuration

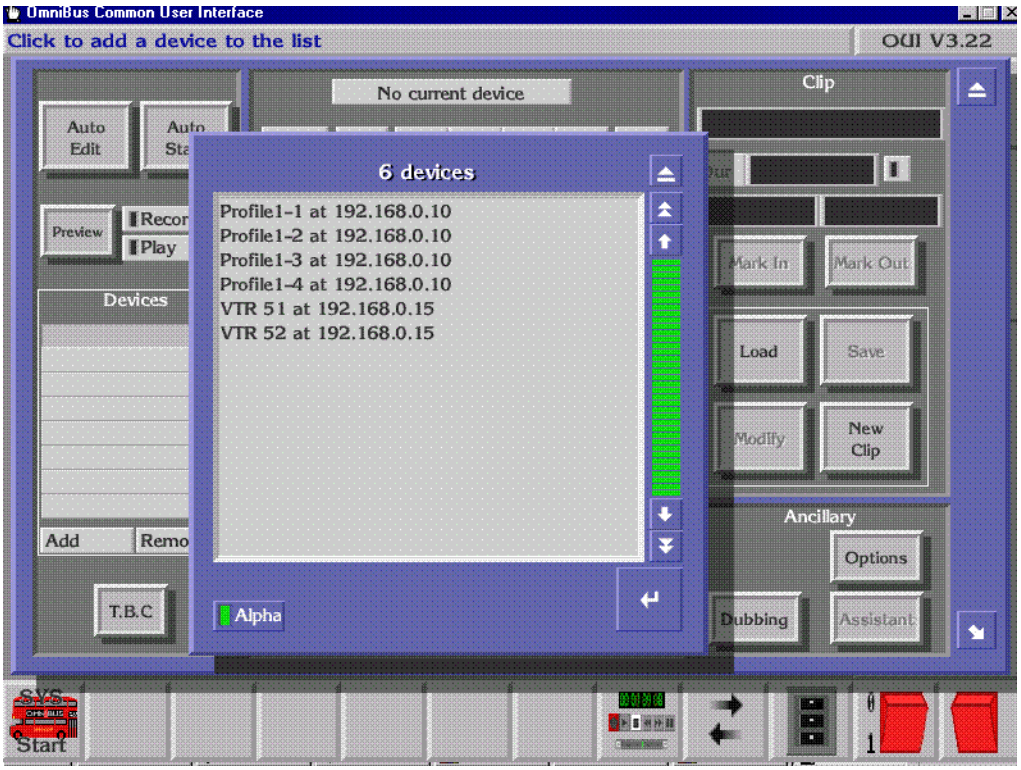
18. Access the **Local Machine Control Panel** by touching the button on the bottom of the screen with symbols of VTR controls. A screen like Figure 24 will appear.

Figure 24. OmniBus Local Machine Control



19. Click on **ADD** on the right side of the screen. A list including multiple Profile devices with the same IP address should appear. Figure 25 assumes a 4-channel Profile has been configured.

Figure 25. List of Configured OmniBus Devices

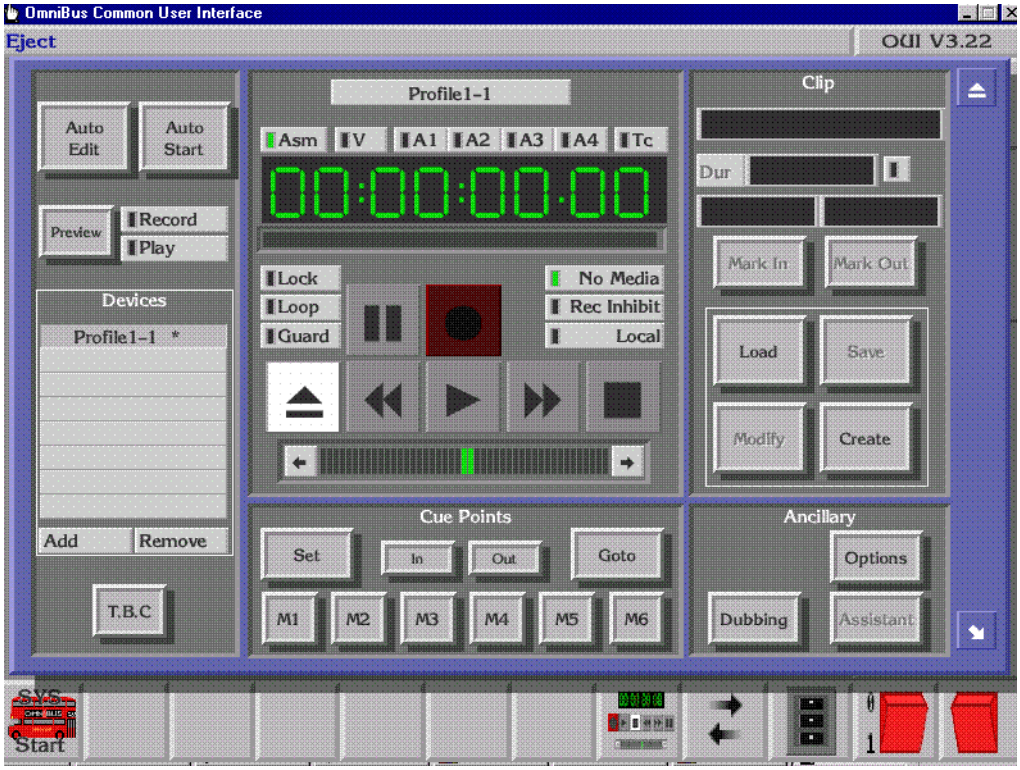


Test Playback from OUI

You will now test that the Profile can be controlled directly with OmniBus. This level of control must exist in order to have successful Kalypso system control of the Profiles.

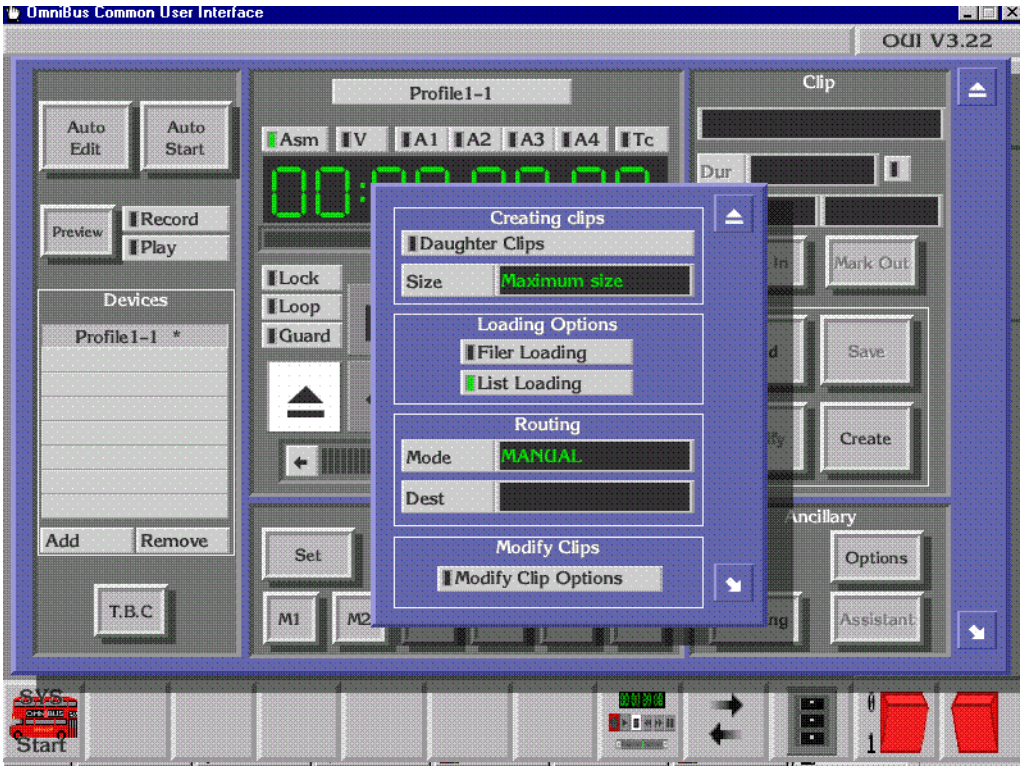
1. From the above menu, select one of the Profile devices and click on the Enter button on the lower right of the devices list. This selects one of the devices for local control (Figure 26).

Figure 26. Profile Selected for OmniBus Local Control



2. Click on the **Options** button on the lower right to open a clips menu, and make sure the **List Loading** option has been selected. This ensures you can load clips residing on the Profile (Figure 27).

Figure 27. OmniBus List Loading Option



3. Close the clips menu, then click on the **Load** button on the upper right. If clips have been recorded on the Profile a list of these clips will appear. Select one to play.

4. Click on the Play symbol button in the center of the screen. Timecode should advance while the clip plays (Figure 28), demonstrating that machine control exists.

Figure 28. OmniBus Profile Clip Playback



Test Profile Interface Operation

After completing cabling and configuration, you should be able to do the following from the Kalypso Machine Control subpanel:

- Select a Profile channel to control on the PGM PST B bus,
- Scroll through a list of available Profile clips, viewing their names on the readout,
- Cue and load a selected clip, and
- Play, Stop, Fast Forward, and ‘Rewind the loaded clip.

You have now completed the Profile interface installation and configuration for Kalypso control. The next section concerns VTR Kalypso control, which is a completely independent procedure used only for VTRs, not Profiles.

VTR Interface

The Kalypso system can be interfaced to control VTRs, using OmniBus.

OmniBus VTR Interface Components

The OmniBus VTR interface components consists of:

- Serial Control Engine hardware running the Acorn OS, and capable of controlling up to six VTRs,
- VSVC application software (available as an option installed on the Serial Control Engine),
- Sharer application, responsible for overseeing the entire OmniBus network (provided on the Kalypso Software CD),
- System Manager application, used to configure users and their access to the network (provided on the Kalypso Software CD), and
- an OUI (OmniBus User Interface) application, (provided on the Kalypso Software CD).

The Omnibus Sharer and System Manager must be installed somewhere in your facility to use Kalypso system machine control. However, only one instance of these programs should be running on the network.

Required Materials

You will need the following additional materials and signals to install, configure, and run the OmniBus VTR interface:

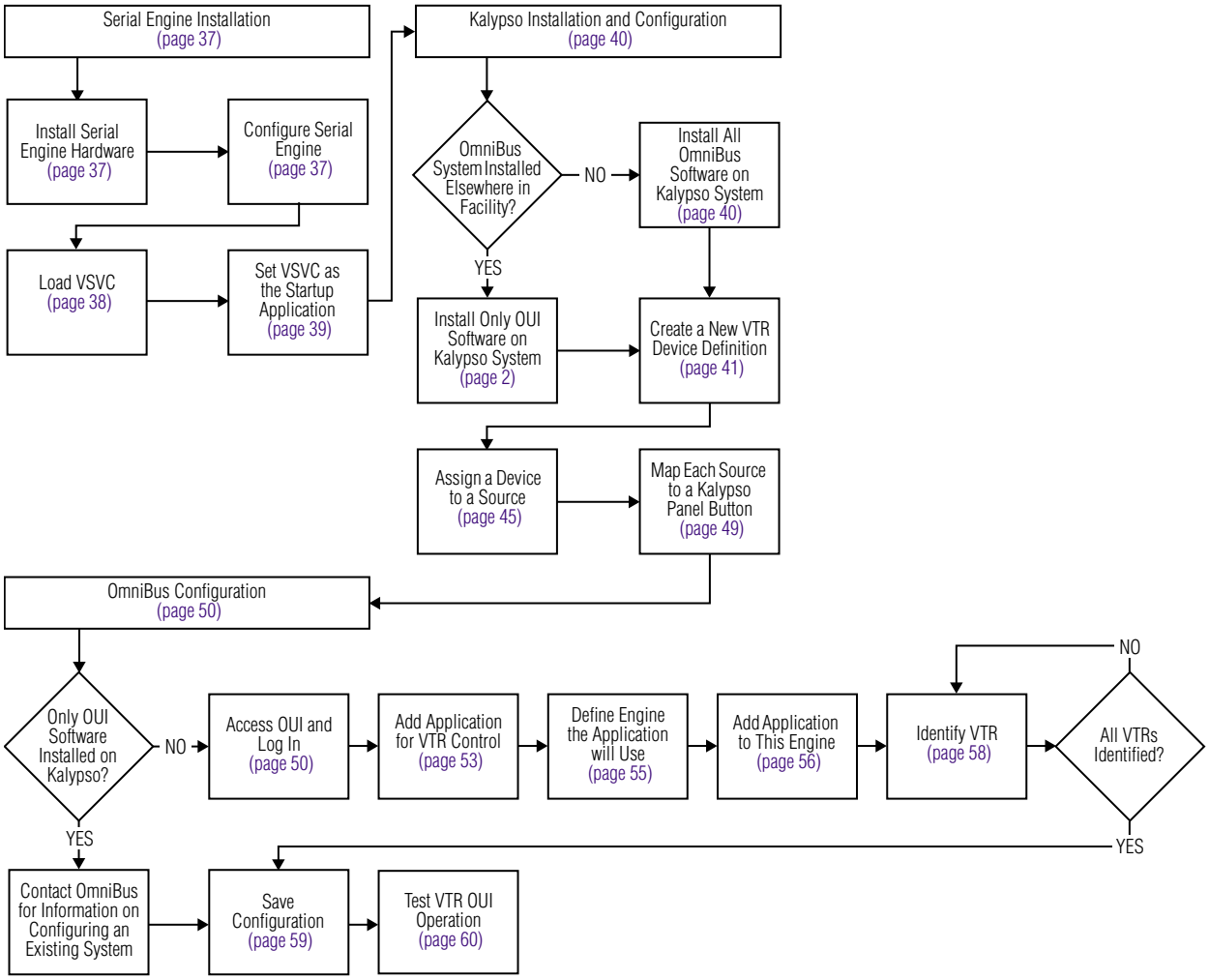
- VGA Monitor
- PC keyboard (European or American)
- Mouse (3 button recommended)
- Black Burst with house VITC
- Category 5 Ethernet cable
- RS-422 Serial cable (9-pin for ports 1-4)

Note Serial Engine ports 5 and 6 have a single 44 pin connector. See the OmniBus Serial Engine documentation for pinout information.

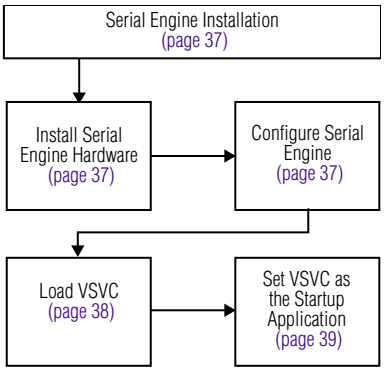
Overall VTR Configuration Procedure

Interfacing a VTR with the Kalypso system involves configuring the OmniBus Serial Engine itself, the OmniBus software used for system integration, and the Kalypso system (Figure 29). All three procedures must be completed in the order displayed in the flow diagram.

Figure 29. VTR Interface Flow Diagram



Serial Engine Installation



Install Serial Engine Hardware

1. Install the Serial Engine frame in a standard rack, leaving space above and below for cooling.
2. Connect a Black Burst signal carrying house VITC.
3. Connect RS-422 serial cables from each VTR to a Serial Engine port. Note the number of each port used for each VTR for later use during configuration.

Note To prevent possible IP Address conflicts, do not connect the Ethernet Cable to the Kalypso switch now. This will be done after the Serial Engine has been configured with its correct IP address.

Configure Serial Engine

1. Power down the Serial Engine by disconnecting its power cable.

CAUTION The Serial Engine must not be powered when connecting cables behind the front panel.

2. Remove the front panel.
3. Connect a VGA monitor, PC keyboard, and mouse to the labeled front connectors.
4. Power up the Serial Engine by connecting its power cable.
5. After power up, the RISC OS in the Serial Engine boots. A new system should not be configured with any startup applications. However, if a program runs on power up, press the **Esc** key to return to the Acorn OS.
6. Click on **HardDisk4** at the lower left corner of the screen to open a scrolling list.
7. Hold down **Shift**, then double click **!Internet** on the scrolling list.
8. Hold down **Shift**, then double click **!Configure**. This opens a text file for internet configuration. Maximize the window by clicking on the square button at top right corner of window.

9. Scroll to **Set Inet$HostName** and enter the host name for the Serial Engine. This is an arbitrary name, but it will appear on the front panel of the serial engine. Enter "**VTR Control 1**" with quotes.

   - If you have a UK keyboard, you should be able to enter the text directly.
   - If you have a US keyboard, you will need to use the @ character in place of the " character to enter the proper text.

   When finished the line should read:

   ```
   Set Inet$HostName "VTR Control 1"
   ```

10. Scroll to **Set Inet$EtherIPAdd** and enter an IP address. In this example we will use **192.168.0.15**, which works well with the default addresses used by the Kalypso system. Use the " or @ key as necessary for your keyboard. In this example the line reads:

    ```
    set Inet$EtherIPAddr "192.168.0.15"
    ```

    If not using Kalypso default IP addresses, you will need to enter a different address compatible with your system.

11. Scroll to **Set Inet$EtherIPMask**. Enter "**255.255.255.0**". This is the default used by the Kalypso system. Use the " or @ key as necessary for your keyboard. The line should read:

    ```
    Set Inet$EtherIPMask "255.255.255.0"
    ```

    If not using the Kalypso default subnet mask, you will need to enter a different subnet mask compatible with your system.

12. Press **F3** to open a dialog box, then click **OK** to save the configuration. Then close only the two configuration windows by clicking on the x boxes in the top left corner of each.

Load VSVC

1. Insert the VSVC floppy disk into the drive on the front of the Serial Engine.

2. Click on the floppy drive icon on the lower part of the screen. A single Zip file will appear in the Floppy Disk window. You will uncompress this file using the Spark Plug utility.

3. Double click on the **Utilities** directory, then double click on **!Spark Plug**. The Spark Plug icon appears on the lower part of the screen.

4. Click and drag the **VSVC(xxx).Zip** file from the floppy disk window over the SparkPlug icon to uncompress the files. A window will open showing three files.

5. Right click on all three files, then drag them over the main Hard Drive window. This copies them to hard drive. Click **OK** to any prompts asking about overwriting files.

6. Close the Floppy Disk window and the Spark Plug window. It is OK to leave the Spark Plug icon on the lower task bar.

7. Remove the floppy disk from the Serial Engine.

Set VSVC as the Startup Application

You will now edit the system startup script to run the VSCS application on bootup.

1. Hold down **Shift**, then double click on **!BootOmn** in the Hard Disk window to open its own window.

2. Hold down **Shift**, then double click on **!DeskBoot**. This opens the startup text file. Maximize the window by clicking on the square button at top right corner of window.

3. Type in the following at the bottom of the list:

   ```
   Filer_Run :4.!App_VSVC
   ```

   Be sure to press the Enter key to ensure a blank line exists at the end of the file.

4. No other applications should be included on this startup list. Delete out other lines that lead with "Filer_Run", by placing the cursor at the end of the line and backspacing, being careful to not delete any characters from the line above. Lines with the pipe symbol (the | straight line character) in front have been commented out, and will not affect startup. Check the entire file to ensure only the one line you entered remains active.

5. Press **F3** to open a dialog box, press **OK** to save the changes, then close the open windows.

6. Reboot engine from keyboard by pressing **Ctrl**, **Break**.

7. After reboot, the Serial Engine front panel should display the new host name and IP address.

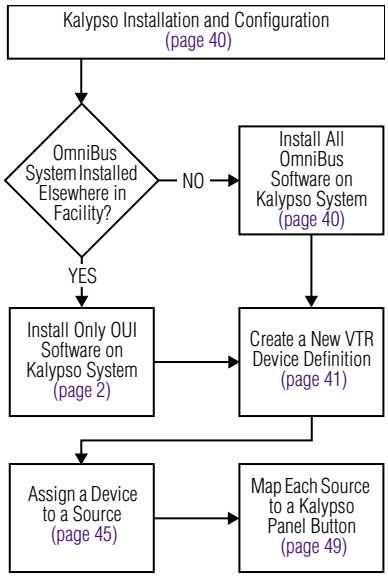
Note Error messages will appear because the Serial Engine is not connected to a network with the OmniBus sharer application running but. This is expected at this time and can be safely ignored.

8. Power off the Serial Engine by disconnecting its power cable.

9. Disconnect the monitor, keyboard, and mouse, and make sure the floppy disk has been removed from the Serial Engine drive.

10. Reattach the Serial Engine front plate.
11. Connect the Ethernet Cable to the Kalypso switch.
12. Power up the Serial Engine by connecting its power cable.

Kalypso Installation and Configuration



Install OmniBus Software

Install the appropriate OmniBus software using the Kalypso Software CD (see *OmniBus Software Installation on page 2*).

You now need to configure the Kalypso system to recognize the VTR for machine control. Follow the same procedure as used for Profile, except:

- Use the Serial Engine IP address when defining the device,
- Use **VTR X** (or whatever name you used to identify that VTR) as the name of the device.

Create a New VTR Device Definition

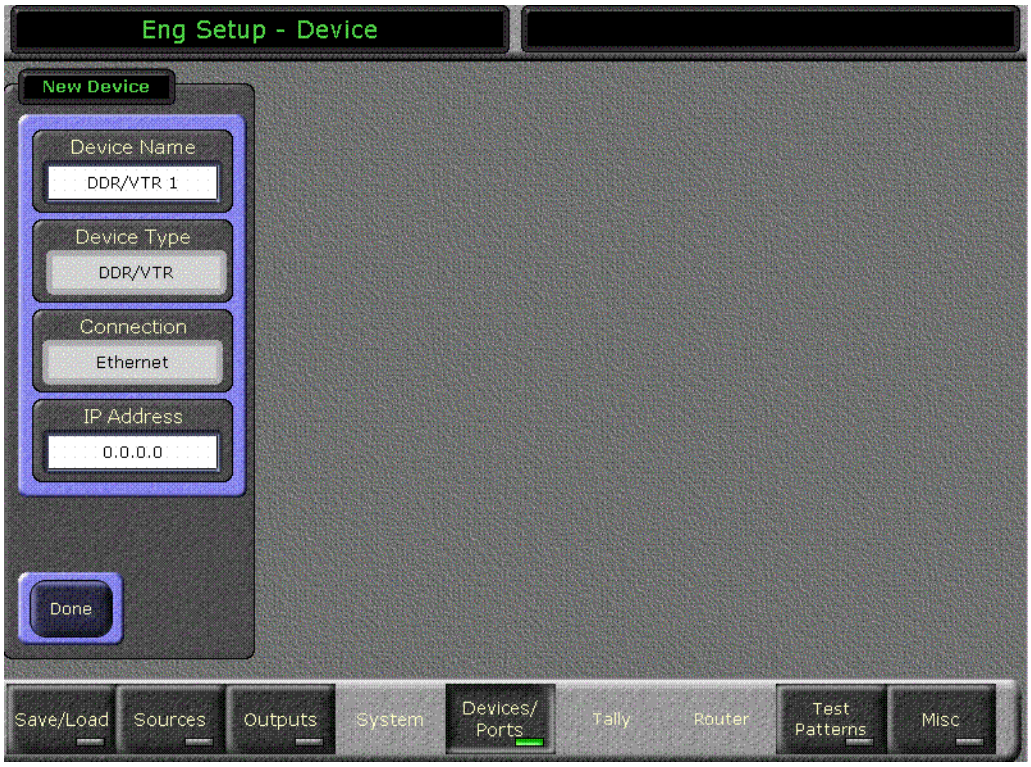
1. Go to the Eng Setup Devices menu by pressing the **Eng Setup** Menu panel button, and touch the **Devices/Ports** category selection button at the bottom of the screen. Touch the **DDR VTR** button to select that device category. A menu similar to Figure 8 is displayed.

Figure 30. Device Definition Menu, No Devices Defined



2. Touch the **New Device** button to display the next menu (Figure 31).

Figure 31. Device Definition Data Entry Menu

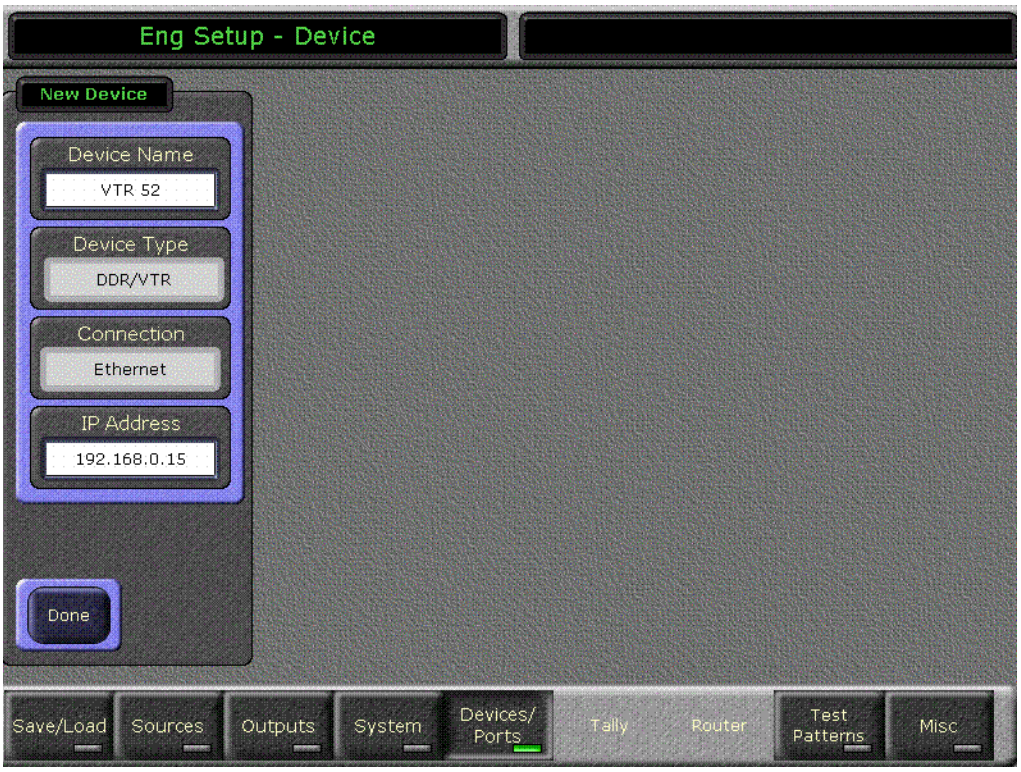


3. Touch the **Device Name** data pad and enter the name you wish to use to identify the device. Enter **VTR X** (whatever name you used to identify that VTR).

CAUTION The VTR **Device Name** entered here must exactly match the name used by the OmniBus system for that VTR.

4. Touch the **IP Address** data pad and enter the exact value used for the Serial Engine. Figure 32 shows the menu after the name and IP Address have been entered. In this example the address is 192.168.0.15, which is compatible with the default Kalypso system IP addresses.

Figure 32. Device Definition Menu with Profile Data



5. Press the **Done** button. The previous menu is then displayed and the defined device appears on the list (Figure 33).

Figure 33. Device Definition Menu with a Devices Defined.



6. Repeat this process for every VTR controlled by that Serial Engine. A two VTR configuration is shown in Figure 34.

Figure 34. Device Definition Menu with Four Channel Profile Configuration

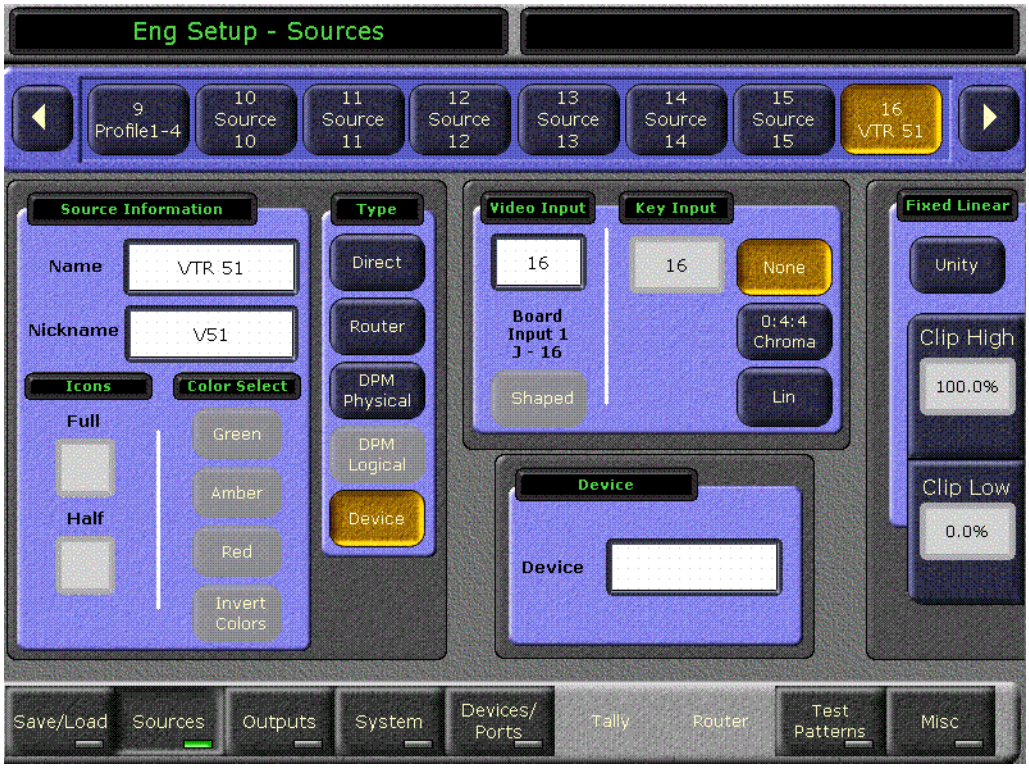


Assign a Device to a Source

1. Touch the **Sources** category selection button at the bottom of the screen. Select the source on the scrolling list, name the source with the **Name** and **Nickname** data pads, select the input number(s), and enter any keying information.

2. Touch the **Device** type button. A device window appears on the lower part of the menu (Figure 35).

Figure 35. Source Definition Menu, Available Devices



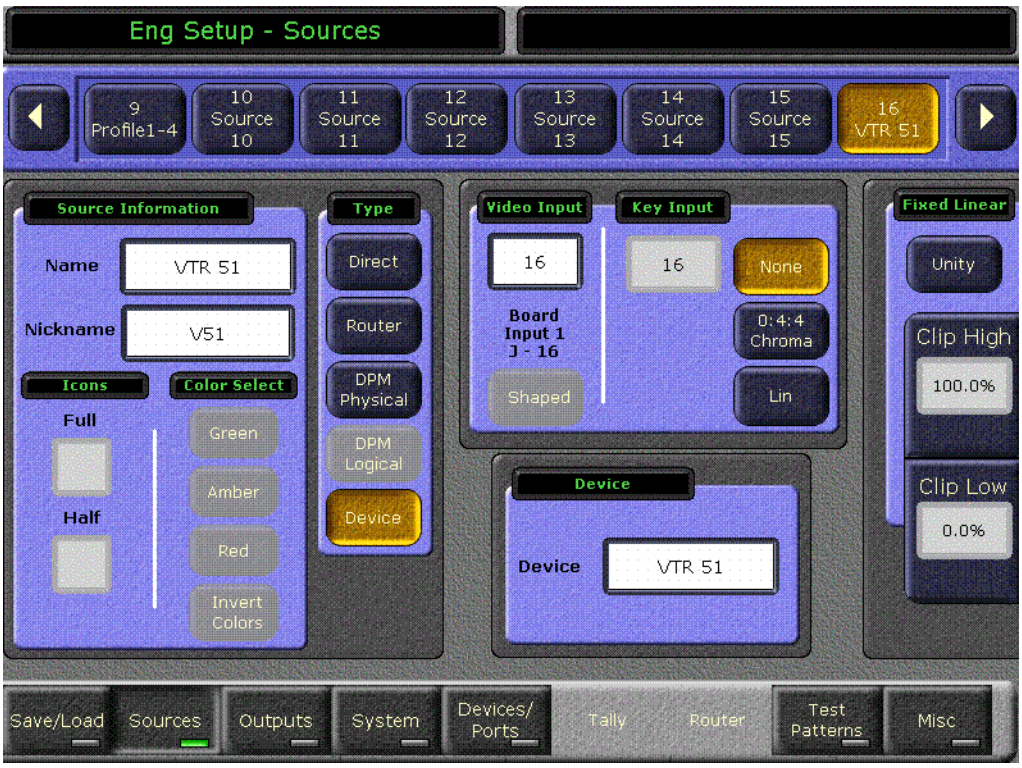
3. Touch the **Device** data pad in the new window. A menu similar to Figure 36 is displayed.

Figure 36. Source Definition Menu, Available Devices



4. Touch the name button of the desired defined device. This assigns that device for control by that selected source, and the previous menu is displayed.

Figure 37. Source Definition Menu, Devices Assigned



5. Assign the remaining devices (if any) to other Kalypso system sources. Each source is now defined as a Profile VDR channel.

Map Each Source to a Kalypso Panel Button

1. Go to the Button Mapping menu by touching the **Daily Setups** button on the Menu panel, then press **User Prefs** and **Button Mapping** buttons.
2. Assign each Profile VDR source from the right scrolling pane to the desired menu button on the left scrolling pane (Figure 38).

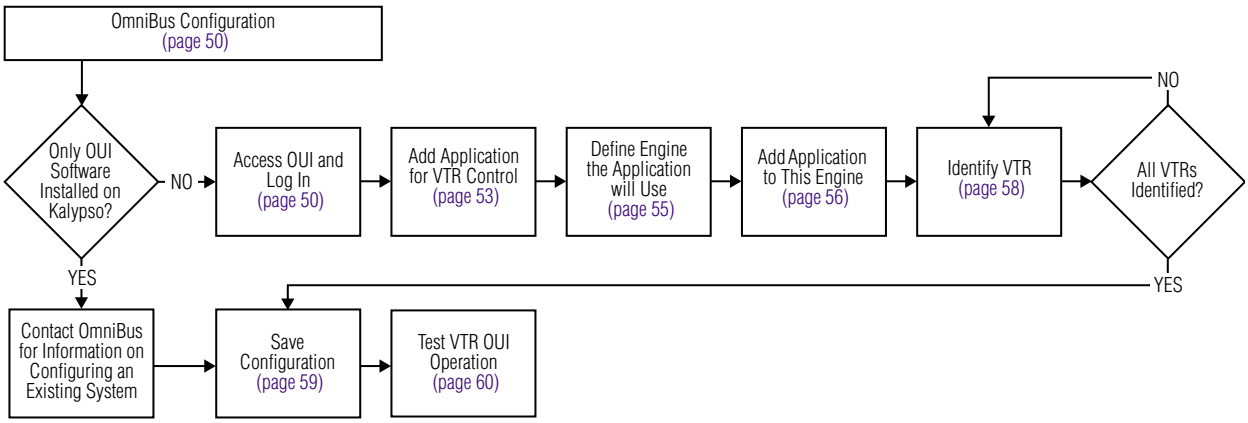
Figure 38. Button Mapping Menu, with Profile Sources Assigned



You should now be able to see each new VTR source name on the Kalypso Main panel, select one on the PGM PST B bus, and control it with the Machine Control subpanel.

OmniBus Configuration

This procedure assumes the OmniBus software has already been installed on the Kalypso system. A keyboard is required for this procedure, and a mouse is recommended for easier OUI navigation.



Access OUI and Log In

1. Press the **Fac Mgr** button on the Kalypso Menu panel, or double click on the **wincui** icon on the Windows NT desktop go to the OmniBus OUI (Figure 39).

Figure 39. OmniBus OUI



2. Click the **Start** button on the lower left corner of the menu.

3. If your are not already logged on, a popup keypad will appear. Log on by typing **SYS** and then pressing the **Enter** key (no password required). A Welcome dialog will appear (Figure 18). Close the Welcome to OmniBus screen by clicking on the upper right triangle symbol Eject box on its own window (do not use the Windows minimize or close boxes).

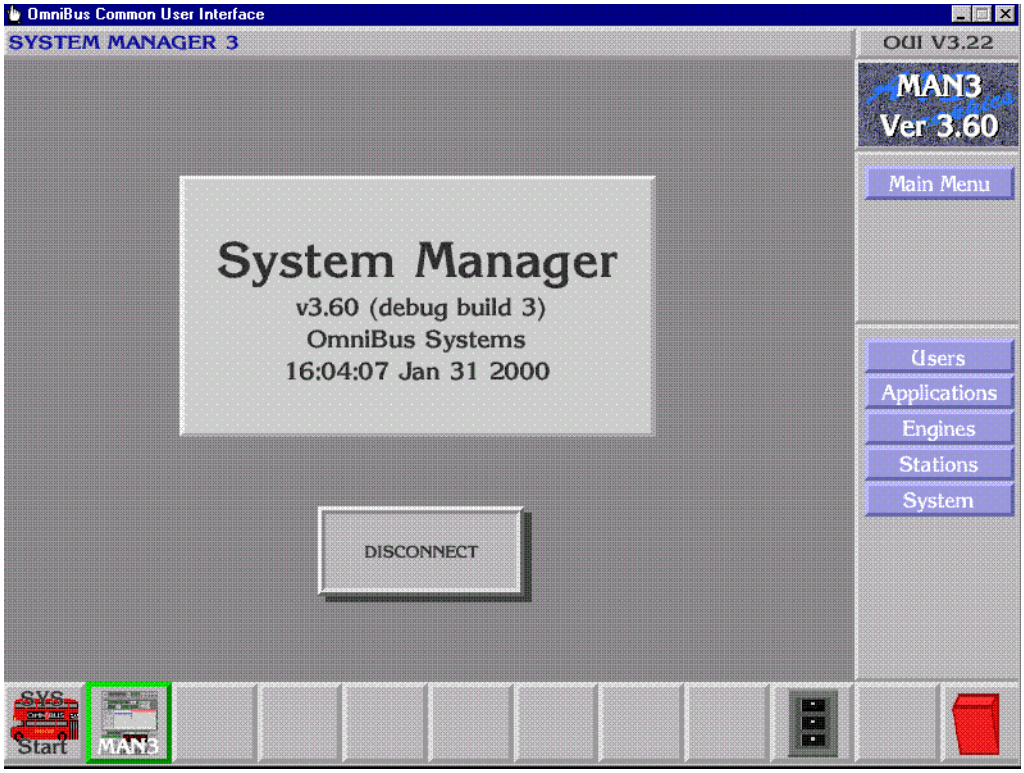
Figure 40. OmniBus Welcome Message



4. Click the button now labeled **SYS START** on the lower left corner of the menu.

5. Double click **System Manager 3** on the list. A System Manager Main Menu window will appear (Figure 41).

Figure 41. OmniBus System Manager Main Menu

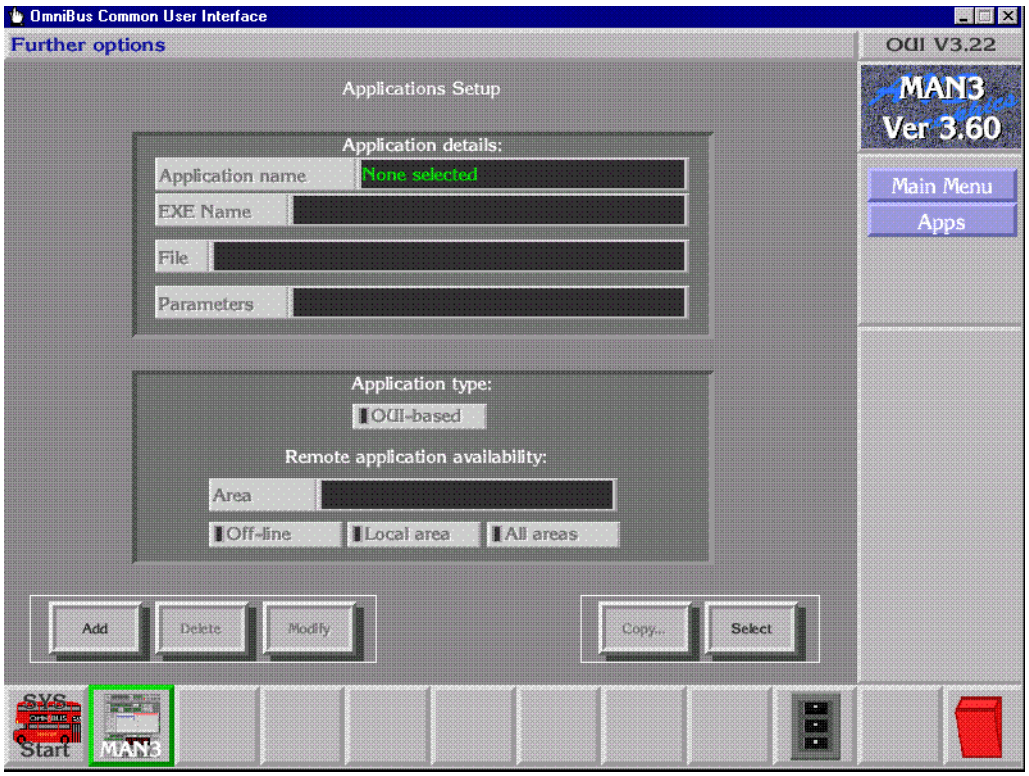


Note If a **No Engines Available** message appears, make sure the System Manager application is running on the Kalypso system Windows NT desktop.

Add Application for VTR Control

6. Click **Applications** on the task bar on the right side of the Main Menu. The Application Setup window appears.

Figure 42. OmniBus Application Setup Menu



7. Click on **Add** in the lower left corner of the window. A pop up window appears asking for the application name. An **!APP_** prefix that cannot be edited is automatically entered into the window.

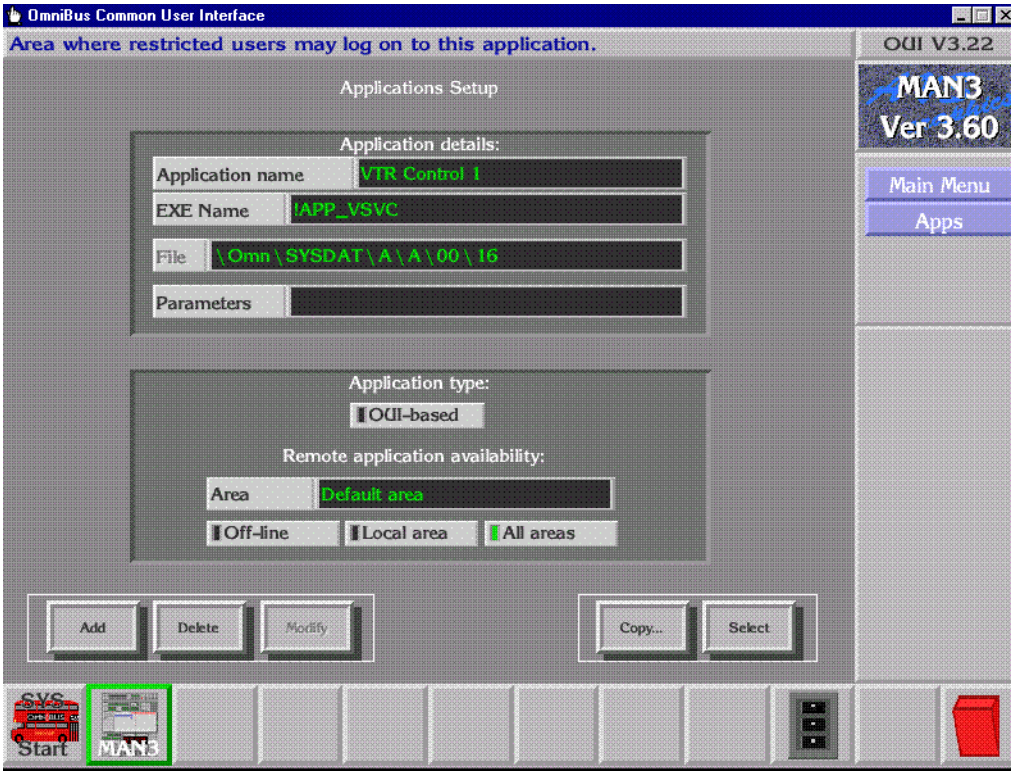
8. Type in **VSVC** and press **Enter**. A pop up window will appear asking for an application name.

9. Type in **VTR Control 1** and press **Enter**.

10. Check the **All Areas** box in the middle of the screen so its green light is illuminated.

11. Click on **Modify** to save the record to the database. The path will appear in the File field.

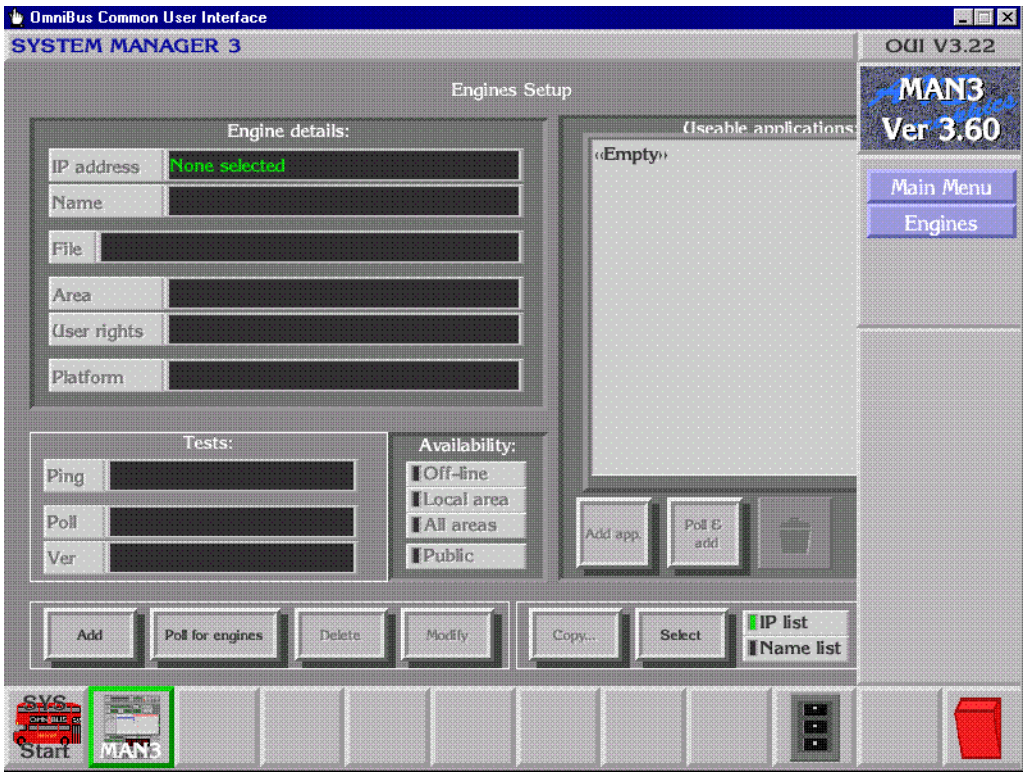
Figure 43. VTR Application Data Saved



Define Engine the Application will Use

12. Click on **Main Menu** in the right menu bar to return to the Main menu, click on **Engines** in the right menu bar (Figure 44).

Figure 44. OmniBus Engines Menu



13. Click on **Add** on the lower left corner of the screen. You are prompted for an IP address. Type the IP address of the Serial Engine you configured earlier and press **Enter**.

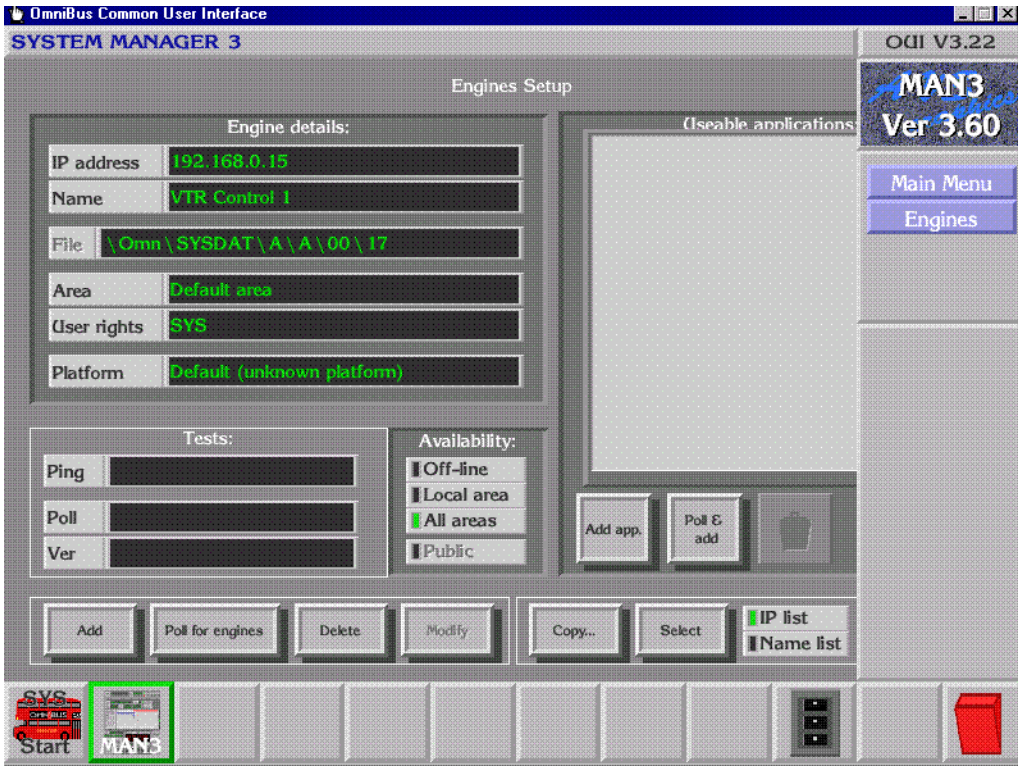
Note This IP address must be the same as the Serial Engine's. You can check the front panel display of the Serial Engine for its configured IP address.

14. A prompt will then appear asking for an engine name. Type in **VTR Control 1** (same as the application name) and press **Enter**.

15. Select **All Areas** under Availabilities in the lower center part of the screen.

16. Click **Modify**. The path will appear in the window (Figure 45).

Figure 45. VTR Engine Data Saved



Add Application to This Engine

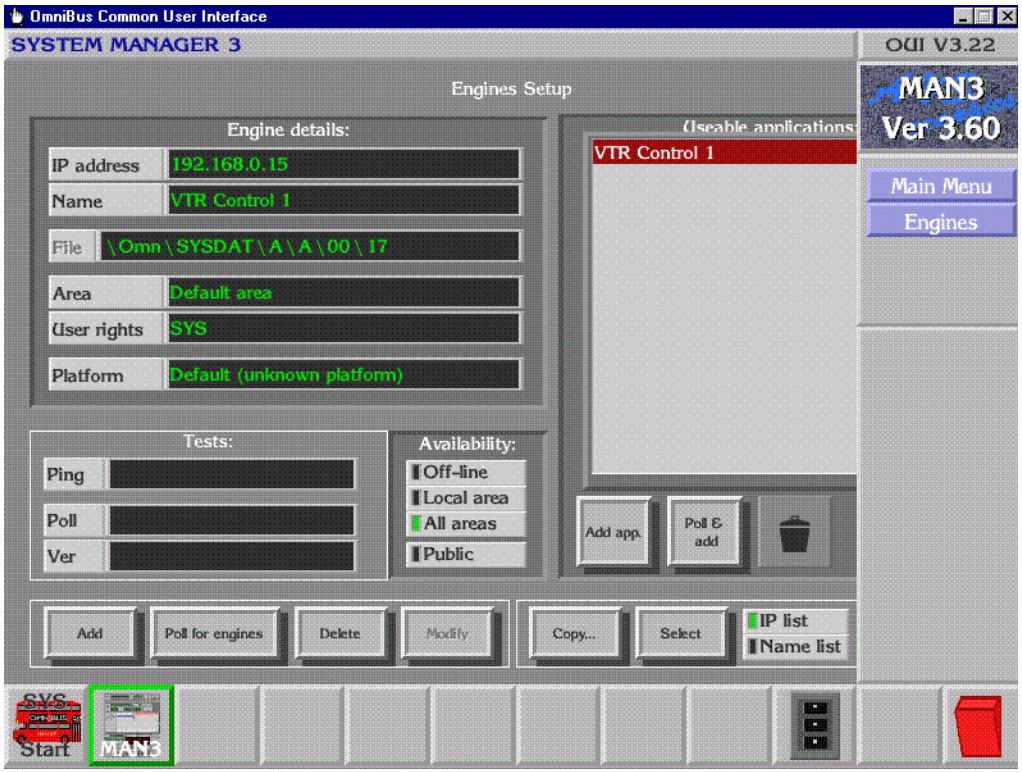
These steps tell the OmniBus system which application that engine can run.

17. Click the **Add App.** button on the lower area of the screen. A list of the current applications will be displayed.

18. Select **VTR Control 1** from the list and press **Enter**. It will appear in red on the Usable Applications list.

19. Click **Modify** to save the configuration (Figure 46).

Figure 46. Application Added to Engine



20. Click **Main Menu** on the task bar on the right, and click **Disconnect**.

You are now finished defining the Engine and Application.

Identify VTR

21. On the OmniBus OUI, click on **Start** on the lower left, then double click on **VTR Control 1** (Figure 47).

Figure 47. OmniBus VTR Machine Control



22. Click Config on the right task bar.

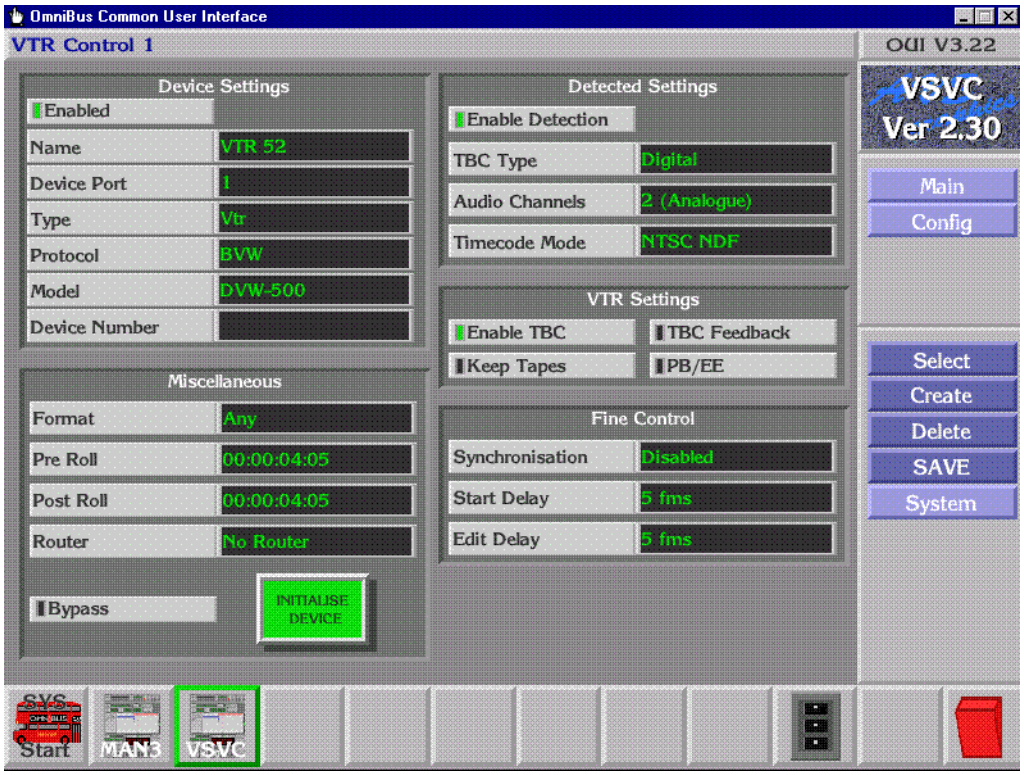
23. Click on **Create**, and type in **VTR X** (or whatever name you wish to use to identify that VTR).

24. Click on **Device Port**, and select the port the VTR was connected to on the Serial Engine.

25. Click **Type**, and select **Vtr**. The system automatically detects the type of VTR and displays this information on the screen.

26. Make sure **Enabled** is on in the upper left corner (Figure 48).

Figure 48. VTR Identified



27. Repeat steps Step 23 through Step 26 for each VTR connected to the Serial Engine ports.

Save Configuration

28. Save the config by clicking on **SAVE** in the right task bar. A Configuration Saved message will appear. Press the **Esc** key on the keyboard to clear the message.

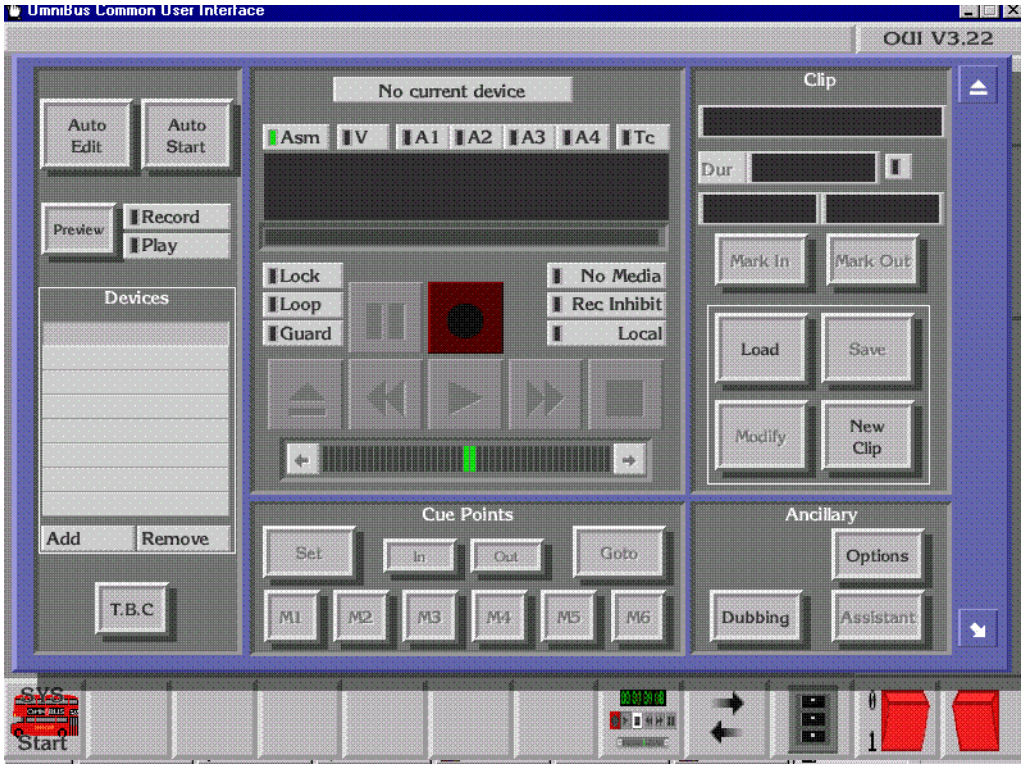
29. Click **Main Menu** on the task bar on the right, and click **Disconnect**.

This completes the OmniBus database configuration. You should now test VTR operation using the OmniBus OUI.

Test VTR OUI Operation

1. Click on the Local Machine Control button (it looks like VTR controls) at the bottom of the screen.

Figure 49. OmniBus Local Machine Control



2. Press the **Add** button on the lower left to display a list of devices.
3. Select a VTR on the list and press **Enter**.
4. Load a video tape into the selected VTR, making sure it is in remote operation mode.
5. Press the Play, Stop, and Rewind buttons on the OUI. Timecode values on the screen should be updated as the tape moves.

This test will prove that a VTR is under OmniBus control. When this is successful, you can proceed to setting up the Kalypso system itself.

OmniBus IP Address Change Procedure

The default OmniBus database installed from the Kalypso software CD contains default IP addresses of the Kalypso system components and one Profile VDR. These default addresses may need to be changed to support larger installations. Changing these addresses when OmniBus has been installed on the Kalypso Menu Processor involves the following steps:

- Run the Menu Processor and OmniBus under the old (default) address, create copies and change their IP addresses,
- Change the Menu Processor's IP address to the new IP address,
- Restart OmniBus and delete the old IP addresses.

The following example procedure shows how to change from the default addresses to the following new addresses (Table 1).

Table 1. IP Address Changes

Device	Default Address	New Address
Kalypso Menu	192.168.0.25	192.65.12.41
Kalypso Frame	192.168.0.20	192.65.12.21
Profile	192.168.0.10	192.65.12.58.

You need a keyboard attached to the Main panel to perform this procedure.

To Modify Default OmniBus Database IP Addresses:

1. With OmniBus running (Sharer, System Manager and OUI), log on and enter System Manager 3 application. User **SYS**, no password.
2. Engines. Select. Should see address **192.168.0.10** (the profile) and **192.168.0.25** (menu processor as host for system manager).
3. Build a copy of Profile if you want to change its address:
   a. **Add**, IP Address: **192.65.12.58** (for this example, use your profile IP address).
   b. Name: **Profile 1**. (The names can be duplicated here, we are going to delete the old names).
   c. **Copy**, at popup, select **192.168.0.10** (the old profile), **Modify**
4. Build a copy of System Manager to run at the new IP address:
   a. **Add**, IP Address: **192.65.12.41** (the new IP address of the Kalypso menu processor).
   b. Name: **Kalypso Menu**
   c. **Copy**, at popup, select **192.168.0.25** (the old menu processor default IP address), **Modify**

5. Build a copy of the OUI to run at the new IP address.
   a. **Main Menu**, **Stations**, **Select**. Should see addresses **192.168.0.20** (default frame for the frame client) and **192.168.0.25** (default menu processor for the OUI).
   b. **Add**, IP Address: **192.65.12.41** (your new IP address for the menu processor).
   c. Name: **Kalypso Menu**.
   d. **Copy**, at popup, select **192.168.0.25** (old menu address for OUI), **Modify**
6. Create a new Frame Client for the new Frame IP address:
   a. **Add**, IP Address: **192.65.12.21** (the new IP address of the Kalypso Frame)
   b. Name: **Kalypso Frame**
   c. **Copy**, at popup, select **192.168.0.20** (the old default Kalypso frame address), **Modify**

   You should now have four entries in the stations/select popup: 192.168.0.20 (old frame address), 192.65.12.21 (new frame address), 192.168.0.25 (old menu processor address) and 192.168.12.41 (new menu processor address). There should also be four entries in the engines/select popup: 192.168.0.10 (old profile address), 192.65.12.58 (new profile address), 192.168.0.25 (old menu processor address) and 192.168.12.41 (new menu processor address).
7. Close OmniBus: stop OUI, sysman3 and Sharer.
8. Change IP address on the menu processor: my computer/Network/ TCP-IP/Properties. Enter **192.65.12.41**. It is not necessary to reboot.
9. Restart OmniBus: start Sharer, Sysman3, and OUI.
10. Logon to OmniBus (user **SYS**, no password), enter application SYSTEM MANAGER3.
11. Delete the engines and stations associated with the old IP addresses:
    a. **Engines**, **Select**
    b. Pick **192.168.0.10** (old Profile engine), **Delete**
    c. Pick **192.168.0.25** (old Kalypso menu as host for manager engine), **Delete**
    d. **Main Menu**, **Stations**, **Select**
    e. Pick **192.168.0.20** (old Kalypso frame host for frame client). **Delete**
    f. Pick **192.168.0.25** (old Kalypso menu host for OUI). **Delete**

OmniBus should now be fully functional with the new addresses.