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Bus Selection

This dialog is displayed if your system has multiple busses that are compatible with the type of adapter you have installed. First select the appropriate bus type. If there are multiple busses of this type you must also select the specific bus number from the list provided.

Bus Selection

Your computer system contains more than one hardware bus compatible with the adapter you have selected.

Please select the type of bus in which your new Stallion adapter is installed. If there is more than one bus of this type, you must also specify the bus number.
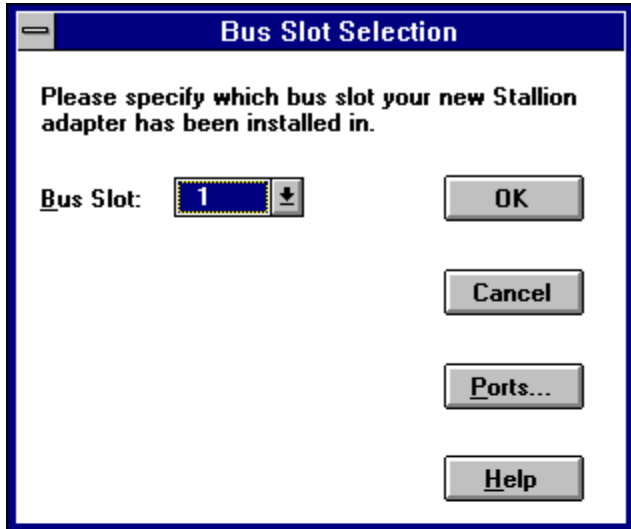
Bus Type

◉ ISA   ○ EISA

○ MCA   ○ PCI

Bus Number: 0

OK

Cancel

Help

EISA Bus Slot Selection

Select the bus slot in which your EISA adapter is installed from the displayed list.

```
┌─────────────────────────────────────────────────┐
│ ▬     Bus Slot Selection                         │
├─────────────────────────────────────────────────┤
│                                                  │
│  Please specify which bus slot your new Stallion │
│  adapter has been installed in.                  │
│                                                  │
│  Bus Slot:   [ 1      ▼]        [   OK   ]        │
│                                                  │
│                                 [ Cancel ]        │
│                                                  │
│                                 [ Ports...]       │
│                                                  │
│                                 [  Help  ]        │
│                                                  │
└─────────────────────────────────────────────────┘
```
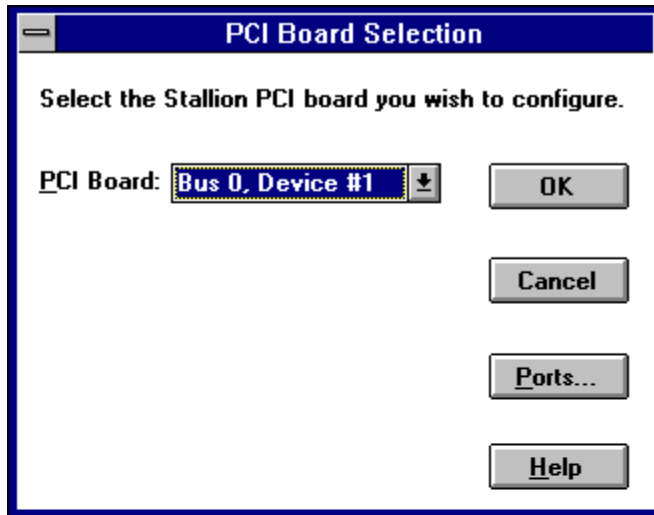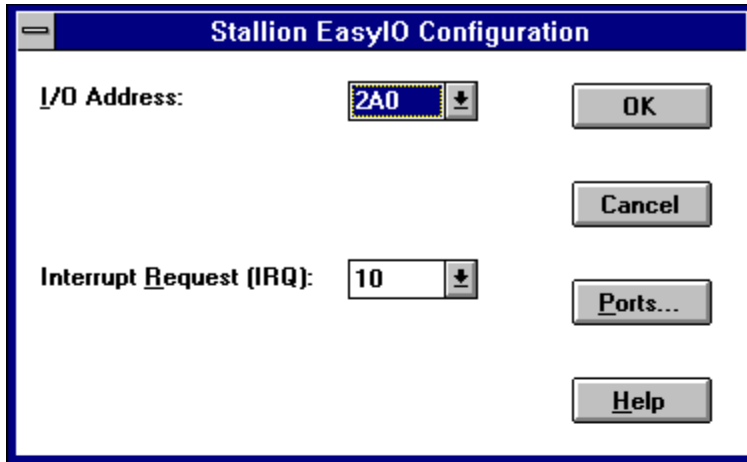
PCI Board Selection

The system automatically detects all Stallion PCI boards installed in the system and displays a list of those which have not been configured.   Select the board you wish to configure from the list.

```
┌──────────────────────────────────────────────┐
│ ⊟        PCI Board Selection                   │
├──────────────────────────────────────────────┤
│                                                │
│  Select the Stallion PCI board you wish to configure. │
│                                                │
│  PCI Board: │Bus 0, Device #1  │ ▼    ┌──────────┐  │
│                                   │    OK    │  │
│                                   └──────────┘  │
│                                                │
│                                   ┌──────────┐  │
│                                   │  Cancel  │  │
│                                   └──────────┘  │
│                                                │
│                                   ┌──────────┐  │
│                                   │  Ports...│  │
│                                   └──────────┘  │
│                                                │
│                                   ┌──────────┐  │
│                                   │   Help   │  │
│                                   └──────────┘  │
│                                                │
└──────────────────────────────────────────────┘
```

EasyIO Configuration

Select the base I/O address and Interrupt Request Line used by the adapter.   The I/O address should match the DIP switch settings on the adapter.   You may select any IRQ which does not conflict with existing hardware.
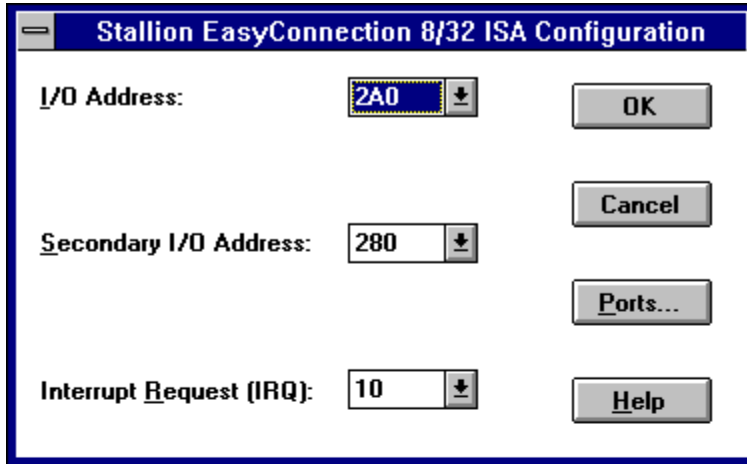
Stallion EasyIO Configuration

I/O Address: `2A0` ▼   [OK]

[Cancel]

Interrupt Request (IRQ):   `10` ▼   [Ports...]

[Help]

EasyConnection 8/32 ISA Configuration

Select the primary I/O address, secondary I/O address and Interrupt Request Line used by the adapter. The primary I/O address should match the DIP switch settings on the adapter.   The secondary I/O address should specify the base of an unused 32-byte area (it may be shared by other EasyConnection 8/32 adapters).   You may select any IRQ which does not conflict with existing hardware.
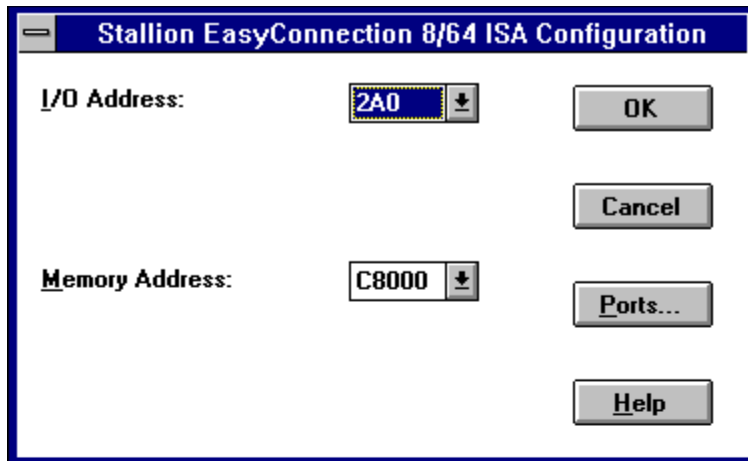
Stallion EasyConnection 8/32 ISA Configuration

I/O Address: `2A0`

Secondary I/O Address: `280`

Interrupt Request (IRQ): `10`

OK

Cancel

Ports...

Help

EasyConnection 8/64 ISA Configuration

Select the base I/O address and memory address used by the adapter.   The I/O address should match the DIP switch settings on the adapter.   You may select any memory address which does not conflict with existing hardware (a 4KByte window is required).
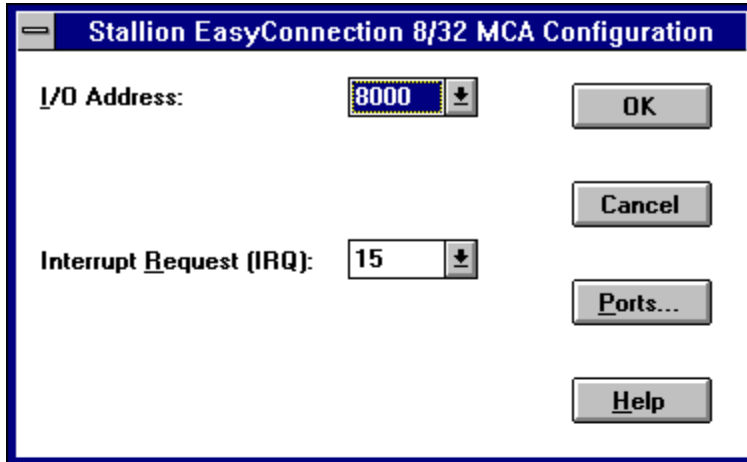
```
┌─────────────────────────────────────────────────┐
│ ▬   Stallion EasyConnection 8/64 ISA Configuration │
├─────────────────────────────────────────────────┤
│                                                  │
│  I/O Address:        ┌──────┬─┐    ┌──────────┐   │
│                      │ 2A0  │▼│    │    OK    │   │
│                      └──────┴─┘    └──────────┘   │
│                                                  │
│                                    ┌──────────┐   │
│                                    │  Cancel  │   │
│                                    └──────────┘   │
│                                                  │
│  Memory Address:     ┌──────┬─┐    ┌──────────┐   │
│                      │C8000 │▼│    │  Ports...│   │
│                      └──────┴─┘    └──────────┘   │
│                                                  │
│                                    ┌──────────┐   │
│                                    │   Help   │   │
│                                    └──────────┘   │
│                                                  │
└─────────────────────────────────────────────────┘
```

EasyConnection 8/32 MCA Configuration

Select the base I/O address and Interrupt Request Line used by the adapter.   These must match the values specified to the system configuration utility.
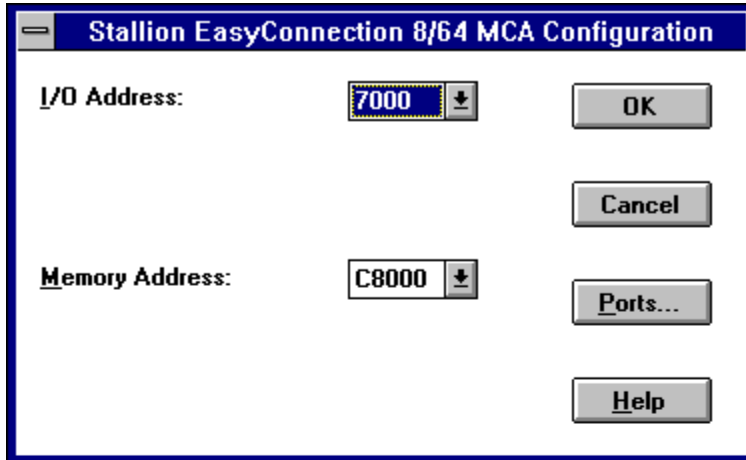
Stallion EasyConnection 8/32 MCA Configuration

I/O Address: `8000`

Interrupt Request (IRQ): `15`

OK

Cancel

Ports...

Help

EasyConnection 8/64 MCA Configuration

Select the base I/O address and memory address used by the adapter.   These must match the values specified to the system configuration utility.

```
┌──────────────────────────────────────────────────────────────┐
│ ▬ │  Stallion EasyConnection 8/64 MCA Configuration           │
├──────────────────────────────────────────────────────────────┤
│                                                              │
│  I/O Address:            ┌──────┬──┐      ┌───────────┐       │
│                          │ 7000 │ ±│      │    OK     │       │
│                          └──────┴──┘      └───────────┘       │
│                                                              │
│                                           ┌───────────┐       │
│                                           │  Cancel   │       │
│                                           └───────────┘       │
│  Memory Address:         ┌──────┬──┐                          │
│                          │C8000 │ ±│      ┌───────────┐       │
│                          └──────┴──┘      │  Ports... │       │
│                                           └───────────┘       │
│                                                              │
│                                           ┌───────────┐       │
│                                           │   Help    │       │
│                                           └───────────┘       │
│                                                              │
└──────────────────────────────────────────────────────────────┘
```

EasyIO Port Configuration

Select the appropriate number of ports for your EasyIO adapter.   The Port Map displays how the adapter ports are mapped to Windows NT COM port names.

Click the Modify Port Map button to change the port name mapping.

```
┌──────────────────────────────────────────┐
│ ▬   EasyIO Port Configuration            │
├──────────────────────────────────────────┤
│  ┌─ Board Type ──────────────┐           │
│  │  ○ 4 port    ◉ 8 port      │           │
│  └───────────────────────────┘           │
│                                           │
│  ┌──────────────────┐                     │
│  │ Modify Port Map...│                    │
│  └──────────────────┘                     │
│        Port Map          ┌────────┐       │
│  ┌──────────────────┐    │   OK   │       │
│  │ Port 00 -> COM3  │    └────────┘       │
│  │ Port 01 -> COM4  │                     │
│  │ Port 02 -> COM5  │    ┌────────┐       │
│  │ Port 03 -> COM6  │    │ Cancel │       │
│  │ Port 04 -> COM7  │    └────────┘       │
│  │ Port 05 -> COM8  │                     │
│  │ Port 06 -> COM9  │    ┌────────┐       │
│  │ Port 07 -> COM10 │    │  Help  │       │
│  └──────────────────┘    └────────┘       │
└──────────────────────────────────────────┘
```
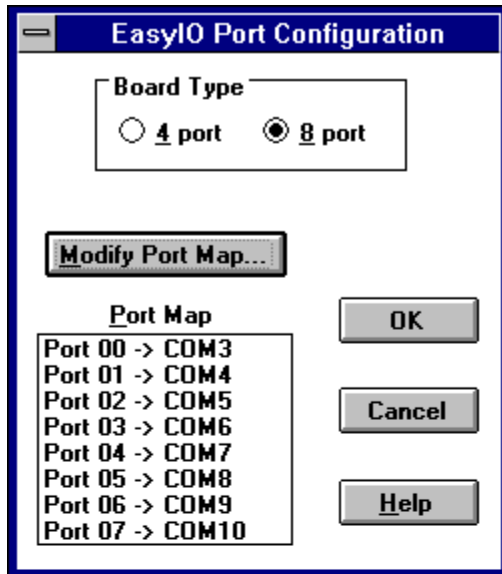
EasyConnection Port Configuration

This dialog is used to configure the panels attached to an EasyConnection adapter.   Individual panels are selected by clicking on the **Select Panel** radio buttons.   Once a panel is selected you may specify the number of ports or delete the panel by selecting the appropriate **Panel Type**.   The **Port Map** displays how the ports on the selected panel are mapped to Windows NT COM port names.

Click the Modify Port Map button to change the port name mapping for the selected panel.

EasyConnection Port Configuration

Select Panel
- ● Panel **1**
- ○ Panel **2**
- ○ Panel **3**
- ○ Panel **4**

Panel Type
- ○ **N**one
- ○ **8** port
- ● 1**6** port

Modify Port Map...

Port Map

```
Port 00 -> COM3
Port 01 -> COM4
Port 02 -> COM5
Port 03 -> COM6
Port 04 -> COM7
Port 05 -> COM8
Port 06 -> COM9
Port 07 -> COM10
```

OK

Cancel

Help

Port Map Configuration

This dialog allows you to modify the mapping of ports on an adapter or panel to Windows NT COM port names.   The number in the **First COM Port Number** box is used to allocate a block of sequential COM port names, e.g. COM10, COM11, COM12, COM13 for a 4-port adapter.   The system will reject attempts to use a COM port name which is already in use by another adapter or built-in port.

Configure Port Mapping

First COM Port Number: 3

OK

Cancel

Help

How To Contact Stallion

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Overview

This document details the steps required to install and configure the Windows NT driver for the Stallion Technologies EasyIO and EasyConnection multiport adapters.   General information on installing adapters is also available in the *Windows NT System Guide*.

Supported Hardware

The following Stallion adapters are supported by the Windows NT driver:

EasyIO (ISA)
EasyConnection 8/32 (ISA, PCI, Microchannel)
EasyConnection 8/64 (ISA, Microchannel, EISA)

All ISA adapters are also EISA compatible.

Supported Software

The driver supports workstation and server versions of Windows NT 3.5 (or later versions).   It has been tested with the Remote Access Server (RAS) and a variety of Windows and DOS applications.

Software Installation and Adapter Configuration

The Stallion device driver is installed and configured through the *Network Settings* dialog in the Windows *Control Panel*.   The *Network Settings* dialog provides the following functions:

Add a new adapter
Reconfigure an existing adapter
Remove an adapter
Install a driver update

ISA Bus Selection
Click this radio button to specify that you are installing your Stallion adapter into an ISA bus.

EISA Bus Selection

Click this radio button to specify that you are installing your Stallion adapter into an EISA bus.

MCA Bus Selection

Click this radio button to specify that you are installing your Stallion adapter into a Microchannel bus.

PCI Bus Selection
Click this radio button to specify that you are installing your Stallion adapter into a PCI bus.

Bus Number Selection

For systems with multiple busses of the same type, this list box is used to select which bus the Stallion adapter is installed in.

OK Button
Click this button to accept the dialog selections.

Cancel Button
Click this button to abandon the dialog selections.

Help button
Click this button for help.

Bus Slot Number
Select the number of the bus slot which contains the Stallion adapter card.

Ports Button
Click this button to invoke the Port Configuration dialog.

I/O Address
Select the base I/O address for the EasyIO adapter (must match the DIP switch settings).

IRQ number
Select the Interrupt Request Line you wish the adapter to use.

I/O Address

Select the primary I/O address for the EasyConnection 8/32 adapter (must match the DIP switch settings).

Secondary I/O Address

Select the secondary I/O address for the EasyConnection 8/32 adapter (this address may be shared by all 8/32 adapters installed in your system).

I/O Address

Select the I/O address for the EasyConnection 8/64 adapter (must match the DIP switch settings).

Memory Address

Select the memory address for the EasyConnection 8/64 adapter dual port RAM. A 4KByte window is required.

I/O Address

Select the I/O address for the EasyConnection 8/32 adapter (as specified to the MCA configuration utility).

IRQ number
Select the Interrupt Request Line (as specified to the MCA configuration utility).

I/O Address

Select the I/O address for the EasyConnection 8/64 adapter (as specified to the MCA configuration utility).

Memory Address

Select the memory address for the EasyConnection 8/64 adapter dual port RAM.   A 4KByte window is required.

PCI board
Select the PCI board you wish to configure.

EasyIO 4 Port
Click this button to specify that you have a 4 port adapter.

EasyIO 8 Port

Click this button to specify that you have an 8 port adapter.

Modify Port Map Button

Click this button to invoke the Port Map Configuration dialog.

Port Map Display
This list box displays the mapping from adapter/panel ports to COM port names.

Select Panel 1
Click this button to select the first panel on your Stallion adapter.

Select Panel 2
Click this button to select the second panel on your Stallion adapter.

Select Panel 3
Click this button to select the third panel on your Stallion adapter.

Select Panel 4
Click this button to select the fourth panel on your Stallion adapter.

No Panel
Click this button to remove the current panel.

8-port Panel
Click this button to specify that the current panel has 8 ports.

16-port Panel
Click this button to specify that the current panel has 16 ports.

First COM port number

Specify the COM port number for the first port on the adapter or panel.   Numbers for the following ports will be assigned in sequential order.

Adding a new adapter

Hardware Installation

Hardware installation and configuration should take place before installing or configuring the Stallion device driver.   See the hardware documentation provided with your adapter for details.

Software Installation and Adapter Configuration

The Stallion device driver is installed and configured through the *Network Settings* dialog in the Windows *Control Panel.*   Click the **Add Adapter** button to start.

Installing the Stallion Device Driver

When installing the first Stallion adapter in a system it is necessary to load the device driver from the diskette provided with your adapter.   If there are existing Stallion adapters already installed in your system this step is skipped.

The system will display a list of network adapter cards.   Select the last entry in the list:
   <Other> Requires disk from manufacturer
and click on the **Continue** button.   Insert the driver diskette when requested, and specify the path to the driver directory, e.g. *A:\I386* if you are using diskette drive *A:.*   The system will then install the Stallion device driver from the diskette.

Selecting the Adapter Type

The next step is to select the adapter type.   You should pick the appropriate entry from the list presented by the system (EasyIO, EasyConnection 8/32, EasyConnection 8/64).

Selecting the Bus

If your system has multiple busses and the adapter you have selected is compatible with more than one of these busses you will be asked to select the bus type (e.g. ISA, MCA, EISA, PCI) and bus number. See bus selection.

Configuring the Adapter

You will now be prompted to enter configuration information for the new adapter.   The information you need to provide will vary depending on the type of adapter and the type of bus it is installed in.

For the ISA bus, see:
EasyIO configuration
EasyConnection 8/32 ISA configuration
EasyConnection 8/64 ISA configuration

For the Microchannel bus, see:
EasyConnection 8/32 MCA configuration
EasyConnection 8/64 MCA configuration

For the EISA bus, see:
EISA bus slot selection

For the PCI bus, see:
PCI board selection

Configuring Ports

Once the adapter is configured you will be asked to specify the number of ports (EasyIO) or panel configuration (EasyConnection), and determine the COM port names (default names are allocated, but you may change these if you wish).

For further details, see:
EasyIO port configuration
EasyConnection port configuration
Port map configuration

Enabling the Adapter

Installation of the new adapter is now complete.   The adapter will automatically be enabled when the system is rebooted.

If driver errors occur during the boot process, a message will be displayed by the Service Control Manager and the error will be logged to the System Log.   Use the *Event Viewer* to check for errors with *StlnATA* in the source field.

Reconfiguring an adapter

Invoking the Configuration Dialog

Stallion adapters are configured through the *Network Settings* dialog in the Windows *Control Panel.*
Select the appropriate installed adapter from the displayed list and then click the **Configure** button.

Configuring the Adapter Parameters

The configuration dialog shows the current settings for the adapter parameters.   These can be modified
as required.   The parameters which are displayed will vary depending on the type of adapter and the
type of bus it is installed in.

For the ISA bus, see:
EasyIO configuration
EasyConnection 8/32 ISA configuration
EasyConnection 8/64 ISA configuration

For the Microchannel bus, see:
EasyConnection 8/32 MCA configuration
EasyConnection 8/64 MCA configuration

For the EISA bus, see:
EISA bus slot selection

For the PCI bus, see:
PCI board selection

Configuring Ports

Click the **Ports** button on the configuration dialog to reconfigure ports (EasyIO) or panels
(EasyConnection).

For further details, see:
EasyIO port configuration
EasyConnection port configuration
Port map configuration

Restarting the Driver

Configuration changes will not take effect until the driver is restarted during the next reboot.

If driver errors occur during the boot process, a message will be displayed by the Service Control
Manager and the error will be logged to the System Log.   Use the *Event Viewer* to check for errors with
StlnATA in the source field.

Removing an adapter

Stallion adapters are removed through the *Network Settings* dialog in the Windows *Control Panel.* Select the appropriate installed adapter from the displayed list and then click the **Remove** button. A reboot is required before removal of an adapter becomes effective.

NOTE: after removing a Stallion adapter (or any other network adapter), you must restart your system before you can reinstall that adapter.

Updating driver software

The Stallion device driver is updated through the *Network Settings* dialog in the Windows *Control Panel.* Select any installed Stallion adapter from the displayed list and then click the **Update** button.   Insert the new driver diskette when requested and specify the path to the driver files, e.g. *A:\I386* if you are using diskette drive *A:*.   Now click on the **OK** button and wait until the new driver files are installed.   A reboot is required before the update becomes effective.   Note that the update will affect all your Stallion adapters, as they share a single copy of the driver.