

# **Hardware References**

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#### **Serial Interface**

A VM Expressway has no physical serial interface; the serial interface is accessible through the console tab of the VM guest.

You can use CTRL+ALT to exit from the Console window (this is identified in the bottom right corner of the vSphereClient window).

## **Ethernet Interfaces (NICs)**

In VM Expressway the LAN interfaces are Virtual NICs. Appropriate drivers are set up as VM Expressway is installed; configuration of IP addresses is carried out through the standard Expressway interface.

VM Expressway allocates 3 virtual NICs:

- the first is used for the standard LAN 1 interface
- the second is used if Dual Network interfaces is enabled (LAN 2)
- the third is reserved for future use

## Allocating a Virtual NIC to a Physical NIC Interface

Virtual NICs can be assigned to physical interfaces as follows:

- **Step 1** Ensure that the physical NIC on the VM host is connected and operational.
- **Step 2** Set up or check that there are Virtual Switches (vNetwork Distributed Switches) for each physical NIC. (Select the host on which the VM Expressway will run, select the **Configuration** tab and select **Networking**.)
- **Step 3** Ensure that there is at least one Virtual Machine Port Group (with associated VLAN IDs) set up for each physical NIC.

- a) To add a new Virtual Machine Port Group, click **Properties** on the appropriate Virtual Switch or vNetwork Distributed Switch.
- b) Follow the network wizard.
- **Step 4** Note the name of a Virtual Machine Port Group connecting to the required NIC.
- Step 5 Select the VM guest; right click it and select Edit settings...
  - Figure 1: Edit Settings



**Step 6** Select the required network adaptor (Network adaptor 1 = LAN 1, Network adaptor 2 = LAN 2).

#### Figure 2: Select Network Adaptor

ardware Options Resources		Virtual Machine Version: 7
Show All Devices	Add Remove	Device Status Connected
lardware	Summary	Connect at power on
Memory CPUs Video card SCSI controller 0 Hard disk 1 Hard disk 2 Network adapter 1 Network adapter 3 US8 controller VMCI device	6144 MB 2 Video card LSI Logic SAS Virtual Disk Virtual Disk 10.50.156.0/22 VM Network VM Network Present Restricted	Adapter Type Current adapter: VM0NET 3 MAC Address 00:50:56:97:01:7a C Automatic C Manual Network Connection Network label: 10.50.156.0/22
Help		OK Carcel

- **Step 7** Select the appropriate Network label (Virtual Machine Port Group) to associate the Expressway LAN interface with the required physical NIC.
- **Step 8** After a few seconds the Expressway will be able to communicate over the physical interface.