Configure MAC Address Spoofing for Virtual Network Adapters

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In Windows Server 2008 R2 Hyper-V and Hyper-V Server 2008 R2, there is a new option
(Enable Spoofing Of MAC Addresses) in the virtual network adapter settings to enable, as you
can probably guess, spoofing of MAC addresses.

If you do not select this option and disallow MAC address spoofing, the following rules are
enforced:

- The virtual switch port that connects the virtual network adapter sends and receives
  packets that contain any valid MAC address.
- The virtual network adapter MAC address cannot be moved or associated with another
  virtual switch port.
- The virtual switch port does not forward unicast flooded packets (packets that are
  forwarded to all switch ports if the destination MAC address is not found in the switch
  forwarding table) to the virtual network adapter.
- You cannot override the virtual network adapter MAC address configuration using the
  NetworkAddress key in the virtual machine registry.

Note that the configuration of a virtual network adapter, including the NetworkAddress key that
contains the MAC address value, is found under
**HKEY_LOCAL_MAChINE\System\CurrentControlSet\Control\Class\{ 4D36e972-e325-
11Ce-BFC1-08002Be10318}** key. Each of the four-digit numbers (0000, 0001, and so on) in the
subkey tree represents a particular network adapter that you can easily identify through its
DriverDesc value.

If you select the option to enable MAC address spoofing, the MAC address can be learned on
other ports, and the following actions will be allowed:

- The virtual switch port that connects the virtual network adapter can send and receive
  packets that contain any MAC address.
- The virtual switch port dynamically learns of new MAC addresses and the virtual switch
  can add them in its forwarding table.
- The virtual switch port will receive and forward unicast flooded packets to the virtual
  network adapter.
- You can override the virtual network adapter MAC address configuration using the
  NetworkAddress key in the virtual machine registry.

If you place the virtual network adapter in promiscuous mode and enable MAC address

spoofing, the virtual network adapter will be allowed to receive unicast flooded packets. –Keith Mange, Software Design engineer