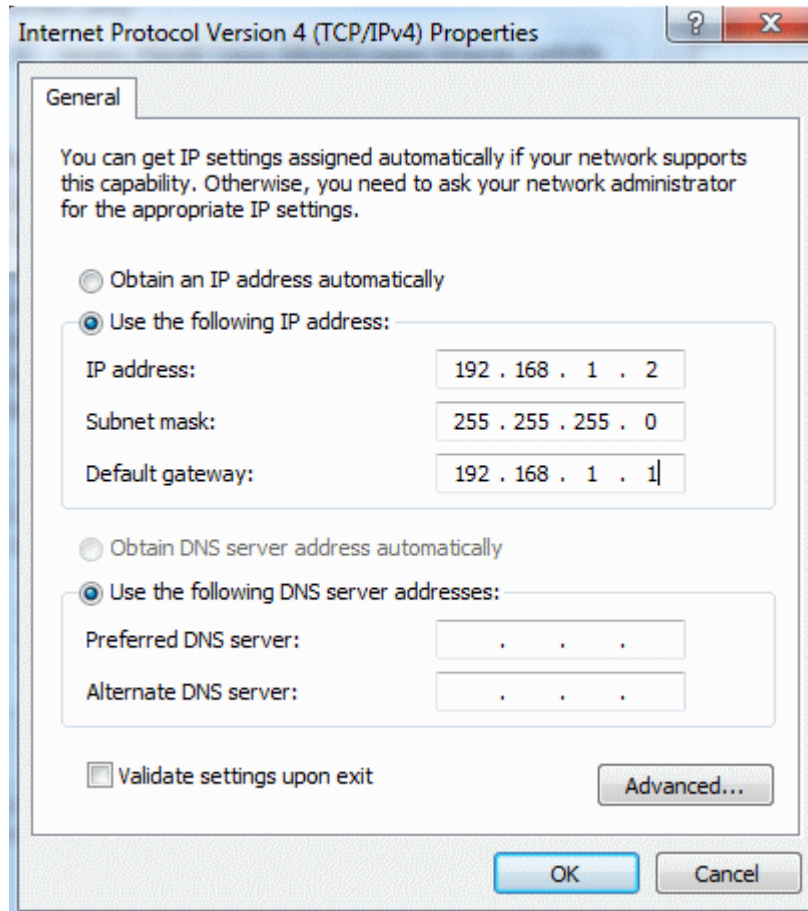


MS21p1 Screen Shots  
1<sup>st</sup> configure your network card as follows



- Device Info
- Advanced Setup**
- Diagnostics
- Management

### Device Info

|                           |                            |
|---------------------------|----------------------------|
| Board ID:                 | 96338L-2M-8M               |
| Software Version:         | 3.10L.02.A2pB023k.d20k_rc2 |
| Bootloader (CFE) Version: | 1.0.37-10.2                |

This information reflects the current status of your DSL connection.

|                                |             |
|--------------------------------|-------------|
| Line Rate - Upstream (Kbps):   |             |
| Line Rate - Downstream (Kbps): |             |
| LAN IP Address:                | 192.168.1.1 |
| Default Gateway:               |             |
| Primary DNS Server:            | 192.168.1.1 |
| Secondary DNS Server:          | 192.168.1.1 |

- Device Info
- Advanced Setup**
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### Wide Area Network (WAN) Setup

Choose Add, Edit, or Remove to configure WAN interfaces.  
Choose Save/Reboot to apply the changes and reboot the system.

| Port/Vpl/Vci | Conn. ID | Category | Service   | Interface  | Protocol | Icmp | QoS     | Status  | Remove                   | Edit |
|--------------|----------|----------|-----------|------------|----------|------|---------|---------|--------------------------|------|
| 0/0/35       | 1        | UNR      | br_0_0_35 | nas_0_0_35 | Bridge   | N/A  | Enabled | Enabled | <input type="checkbox"/> | Edit |

[Add](#) [Remove](#) [Save/Reboot](#)

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Powering  
 Every  
 Connection

**Device Info**  
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**ATM PVC Configuration**  
 This screen allows you to configure an ATM PVC identifier (PORT and VPI and VCI) and select a service category. Otherwise choose an existing interface by selecting the checkbox to enable it.

PORT: [0-3]   
 VPI: [0-255]   
 VCI: [32-65535]

Service Category: UBR Without PCR ▾

**Enable Quality Of Service**  
 Enabling packet level QoS for a PVC improves performance for selected classes of applications. QoS cannot be set for CBR and Realtime VBR. QoS consumes system resources; therefore the number of PVCs will be reduced. Use **Advanced Setup/Quality of Service** to assign priorities for the applications.

Enable Quality Of Service:

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**Connection Type**  
 Select the type of network protocol for IP over Ethernet as WAN interface

PPP over Ethernet (PPPoE)  
 MAC Encapsulation Routing (MER)  
 Bridging

**Encapsulation Mode**  
 LLC/SNAP-BRIDGING ▾

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**Unselect the check box below to disable this WAN service**

Enable Bridge Service:

Service Name:

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**Device Info**  
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**ATM PVC Configuration**  
 This screen allows you to configure an ATM PVC (select a PPPoE and VPI and VCI) and select a service category. Otherwise choose an existing interface by selecting the checkbox to enable it.

PRT: (x/0)   
 VPI: (0-255)   
 VCI: (0-65535)

Service Category: **LMI Without PDU**

**Enable Quality of Service**

Enabling packet level QoS for a PVC improves performance for selected classes of applications. QoS cannot be set for CBR and Realtime VBR. QoS consumes system resources, therefore the number of PVCs will be reduced. Use **Advanced Setup/Quality of Service** to assign priorities for the applications.

Enable Quality of Service:

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**Device Info**  
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**PPP Username and Password**

PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user name and password that your ISP has provided to you.

PPP Username:   
 PPP Password:   
 PPPoE Service Name:   
 Authentication Method: **AUTO**

Enable Fullcone NAT  
 Dial on demand (with idle timeout timer)  
 PPP F extension  
 Use Static IP Address  
 Retry PPP password on authentication error  
 Enable PPP Debug Mode  
 Bridge PPPoE Frames Between WAN and Local Ports (Default Enabled)

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**Device Info**  
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**Enable IGMP Multicast, and WAN Service**

Enable IGMP Multicast:   
 Enable WAN Service:   
 Service Name:

- Device Info
- Advanced Setup
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- LAN
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- Quality of Service
- Routing
- DSL
- Diagnostics
- Management

### WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

|                     |                        |
|---------------------|------------------------|
| PORT / VPI / VCI:   | 0 / 0 / 35             |
| Connection Type:    | PPPoE                  |
| Service Name:       | pppoe_0_0_35_2         |
| Service Category:   | UBR                    |
| IP Address:         | Automatically Assigned |
| Service State:      | Enabled                |
| NAT:                | Enabled                |
| Firewall:           | Enabled                |
| IGMP Multicast:     | Disabled               |
| Quality Of Service: | Enabled                |

Click "Save" to save these settings. Click "Back" to make any modifications.

NOTE: You need to reboot to activate this WAN interface and further configure services over this interface.

- Device Info
- Advanced Setup
- WAN
- LAN
- Security**
- MAC Filtering
- Quality of Service
- Routing
- DSL
- Diagnostics
- Management

### MAC Filtering Setup

MAC Filtering Global Policy: **FORWARDED**

MAC Filtering is only effective on ATM PVCs configured in Bridge mode. **FORWARDED** means that all MAC layer frames will be **FORWARDED** except those matching with any of the specified rules in the following table. **BLOCKED** means that all MAC layer frames will be **BLOCKED** except those matching with any of the specified rules in the following table.

Choose Add or Remove to configure MAC filtering rules.

| VPI/VCI | Protocol | Destination MAC | Source MAC | Frame Direction | Remove |
|---------|----------|-----------------|------------|-----------------|--------|
|---------|----------|-----------------|------------|-----------------|--------|

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DSL Settings

Select the modulation below:

- G.Dmt Enabled
- G.lite Enabled
- T1.413 Enabled
- ADSL2 Enabled
- AnnexL Enabled
- ADSL2+ Enabled
- AnnexM Enabled

Select the phone line pair below:

- Inner pair
- Outer pair

Capability

- Bitswap Enable
- SRA Enable

Save/Apply    Advanced Settings

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Settings - Backup

Backup DSL router configurations. You may save your router configurations to a file on your PC.

Backup Settings

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TR-069 client - Configuration

WAN Management Protocol (TR-069) allows a Auto-Configuration Server (ACS) to perform auto-configuration, provision, collection, and diagnostics to this device.

Select the desired values and click "Apply" to configure the TR-069 client options.

Inform  Disable  Enable

Inform Interval:

ACS URL:

ACS User Name:

ACS Password:

Display SOAP messages on serial console  Disable  Enable

Connection Request Authentication

Connection Request User Name:

Connection Request Password:

Save/Apply    GetRPCMethods

Device Info  
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Diagnostics  
Management  
Settings  
System Log  
**TR-069 Client**  
Access Control  
Update Software  
Save/Reboot