

InfoDraw

Wireless Mobile Video Solutions

Dual-SIM PMRS Guide

Preface: The *PMRS-201d* is a dual-sim device, dedicated to transmitting two cellular signals simultaneously - from two different SIM cards. The *PMRS-201d* is equipped with 2 modems which harness the bandwidth of the transmissions provided by the 2 SIM cards. The load balancing between the two SIM cards and modems in the *PMRS-201d* inhibits stable, higher quality video and audio.

Architecture

In the multi-sim architecture there are two types of devices:

1. **The Streamer:** the *PMRS* device that broadcasts video, audio and location to the *MRS* server.
2. **The Router:** these *PMRS* device/s act only as bandwidth providers to the streamer.

The dual-SIM architecture, like the *MRS* system, is based on a server-centric architecture. Which means the streamer connects to the router and then both connect to the server.

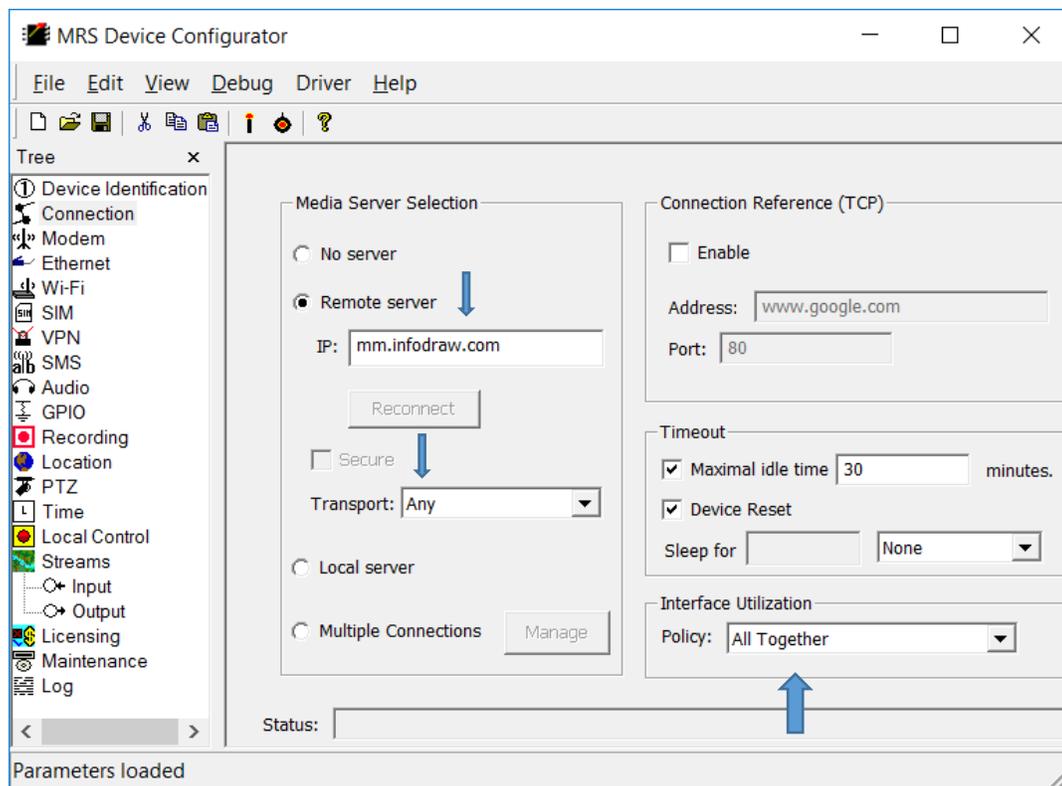
Configure the device for dual SIM mode

- All the actions occur in the **MRS device Configurator**

Streamer Device:

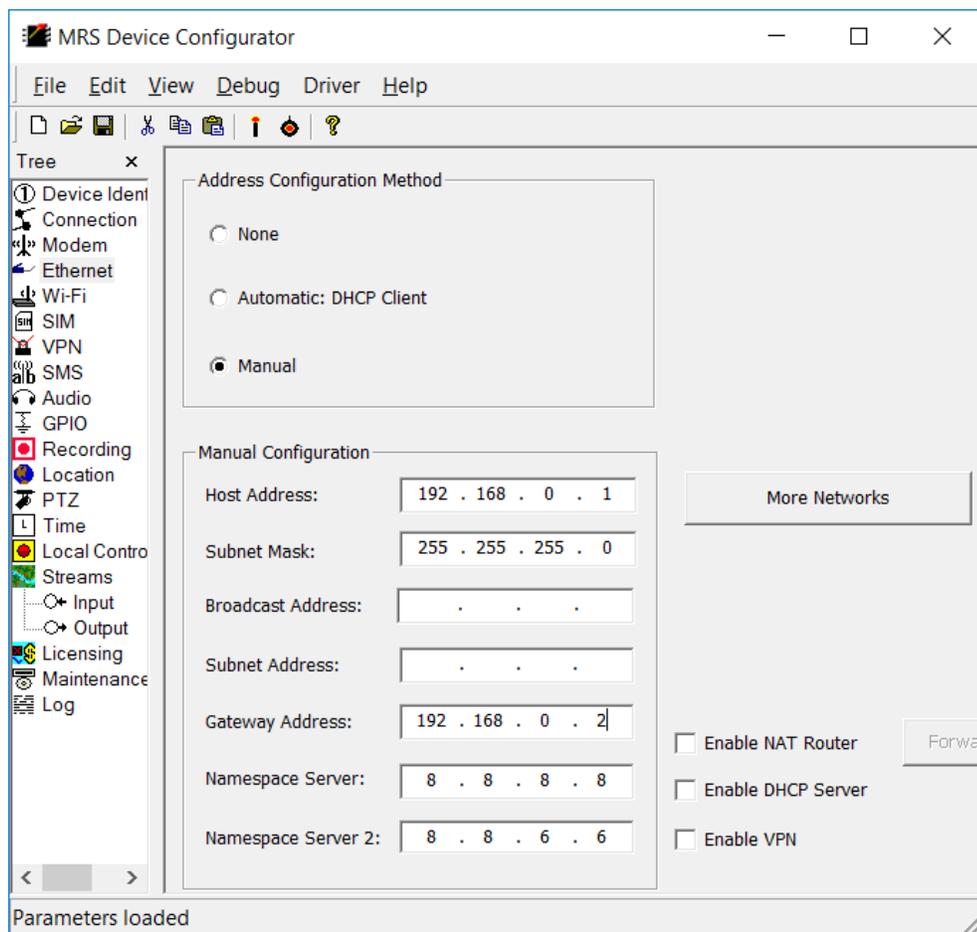
Step 1: Connection tab

- Enter the Remote server IP of your server
- In *transport*: choose *Any*
- In interface utilization choose *all together*



Step 2: Ethernet tab

- In the Ethernet tab - the network that will connect between the streamer and the router/s will be set.
- Go to the Ethernet tab and Enter the host IP, the gateway and the DNS
- When with Dual SIM devices – the gateway will be the IP of the router device.
- In Dual-sim both the streamer and the router have to be in the same network and the same subnet.

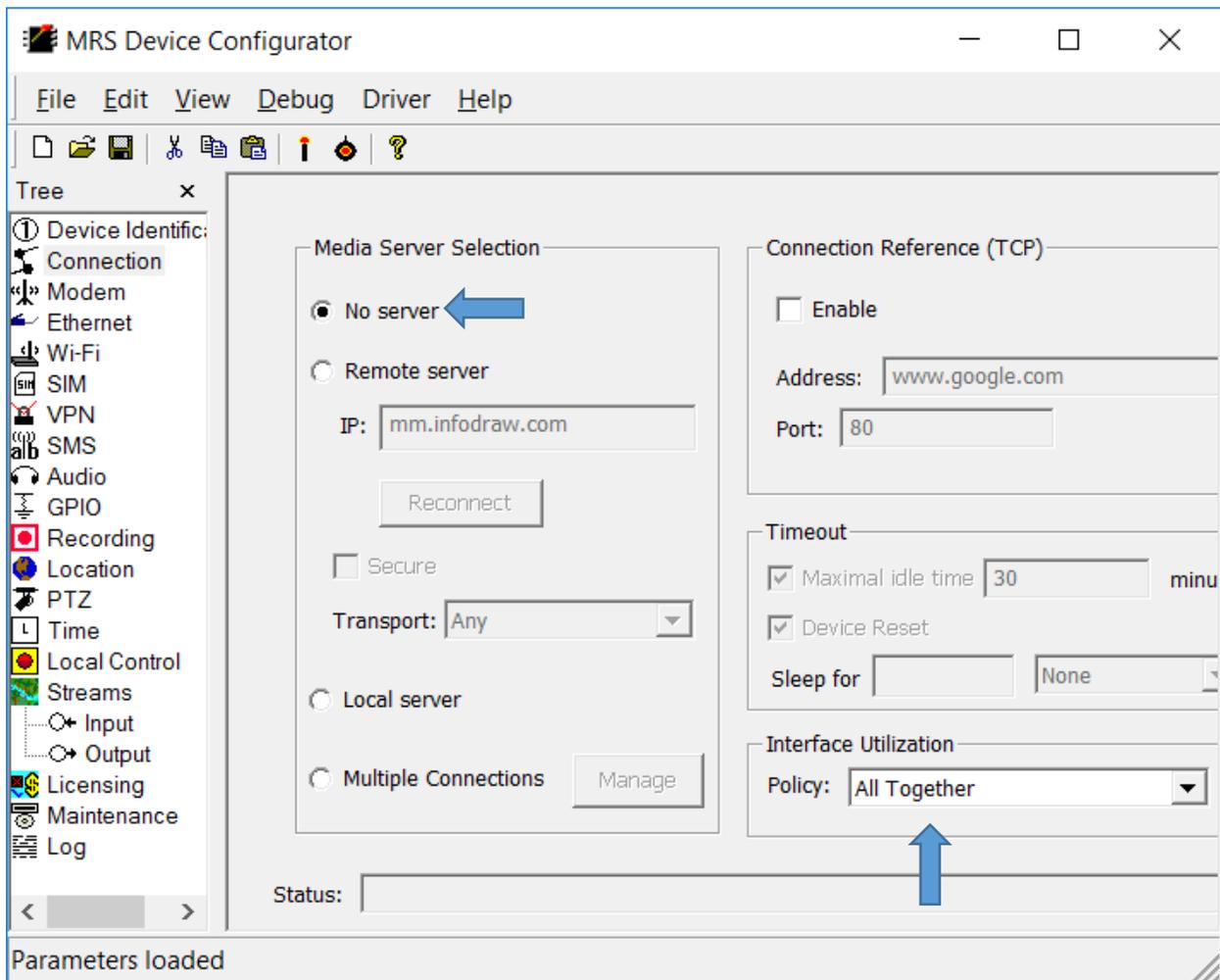


Router Device:

- The router device is the “slave” device that is only supposed to provide bandwidth for the streamer.

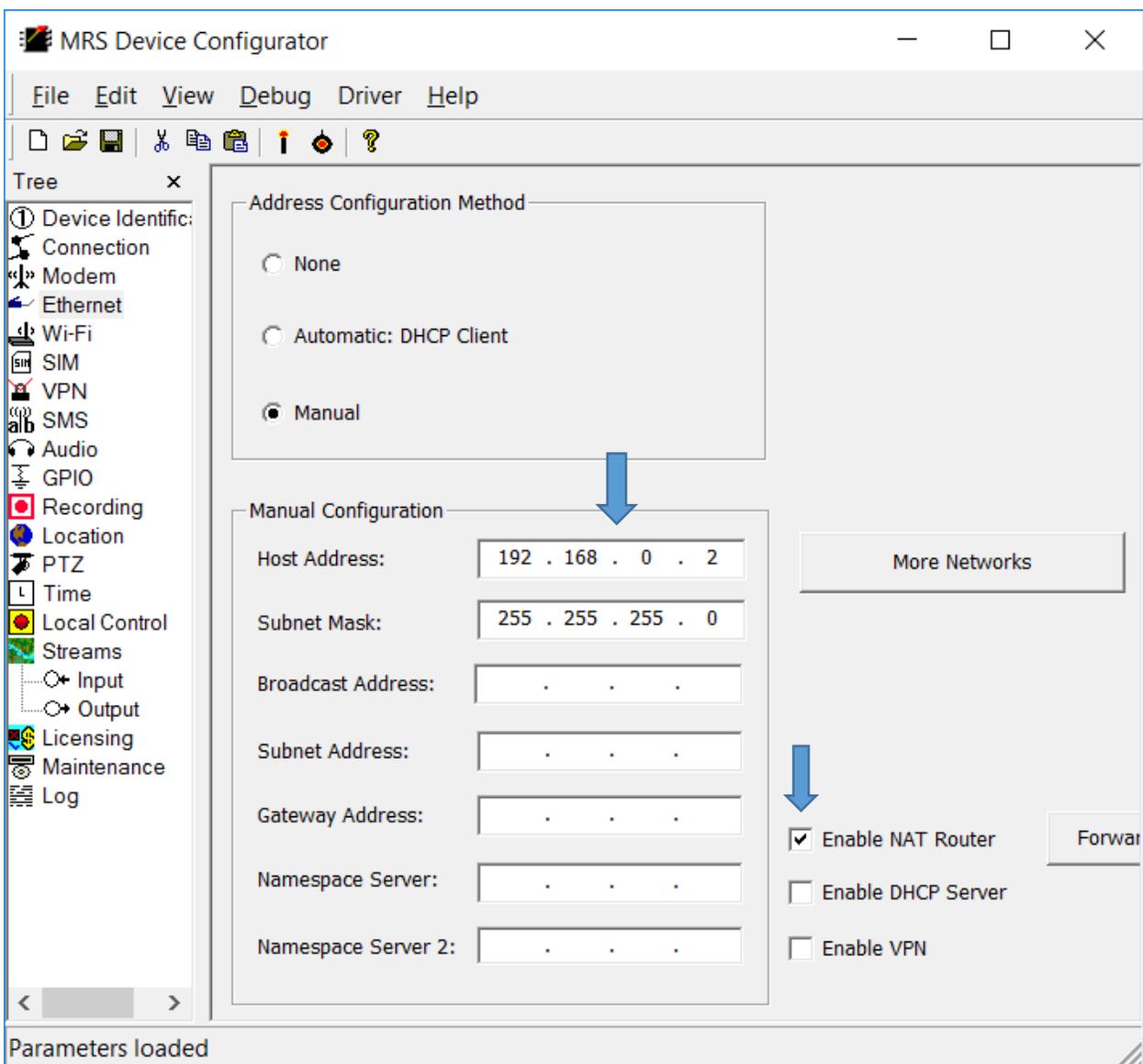
Step 1: Connection tab

- In the media server selection choose *No Server*
- In the interface utilization choose *All together*



Step 2: Ethernet tab

- In the Ethernet setup of the router device will make it the NAT router and will give the streamer device a gateway from which to gain more bandwidth
 - Enter the host IP, it has to be identical to the gateway IP in the streamer device
 - Enter the subnet mask – has to be the same subnet as the streamer device
 - Enable the NAT router



Multi SIM setup

For a multi SIM system, that relies on more than 2 devices, modems and SIM cards, this is the configuration that needs to be setup in the Ethernet tab:

For 4 SIM devices for example:

- In all of the networks there should be the same subnet such as 255.255.255.0
- In all of the networks there has to be a functioning DNS IP like 8.8.8.8
- In all router devices NAT server has to be enabled

To Use this feature please click on the “more networks” button on the right side of the Ethernet tab screen.

Device 1	Host	Gateway	
	192.168.1.1	empty	
	192.168.1.2	192.168.2.2	
	192.168.1.3	192.168.3.3	
	192.168.1.3	192.168.4.4	

Device 2	Host	Gateway	
	192.168.1.1	192.168.1.1	
	192.168.1.2	empty	
	192.168.1.3	192.168.3.3	
	192.168.1.3	192.168.4.4	

Device 3	Host	Gateway	
	192.168.1.1	192.168.1.1	
	192.168.1.2	192.168.2.2	
	192.168.1.3	empty	
	192.168.1.3	192.168.4.4	

Device 4	Host	Gateway	
	192.168.1.1	192.168.1.1	
	192.168.1.2	192.168.2.2	
	192.168.1.3	192.168.3.3	
	192.168.1.3	empty	