



Digi Wi-Point3G® IP Port Forwarding Guide: Configure Port Forwarding

Introduction

This is an example of how to configure IP port forwarding on the Digi Wi-Point3G to pass traffic from the mobile interface to devices connected to the Digi Wi-Point3G's Ethernet port.

There are two main applications where port forwarding is required:

1. Pass application data traffic, such as polls or requests, to Ethernet connected devices.
2. Pass VPN traffic, such as IPSec-in-UDP, through to routers or VPN appliances.

For example, three devices are attached to the Digi Wi-Point3G WAN's Ethernet port:

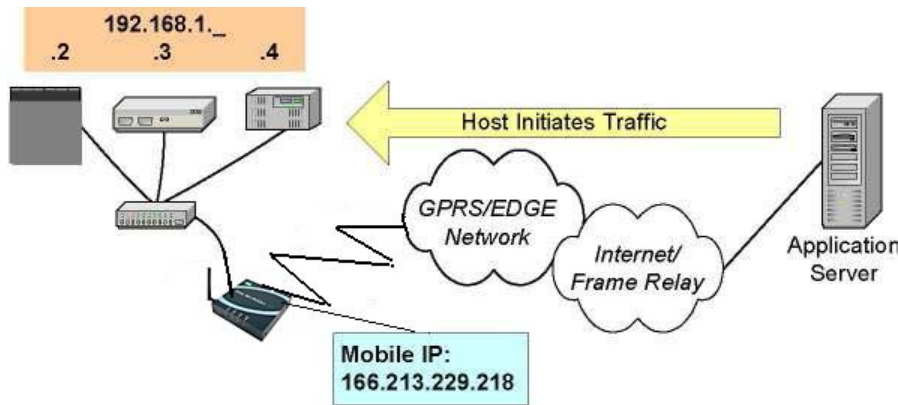


Figure 2 - TCP Port Forwarding

In this example the application uses a protocol that polls the devices using the device IP address and TCP Port 502 (which is Modbus). On local LANs and publicly routable IP addresses this is not a problem.

NAT hides the private Ethernet IP addresses of the devices connected behind the Digi Wi-Point3G WAN's Ethernet port. The application can then only send polls to one IP address the mobile IP – in this case 166.213.229.218.

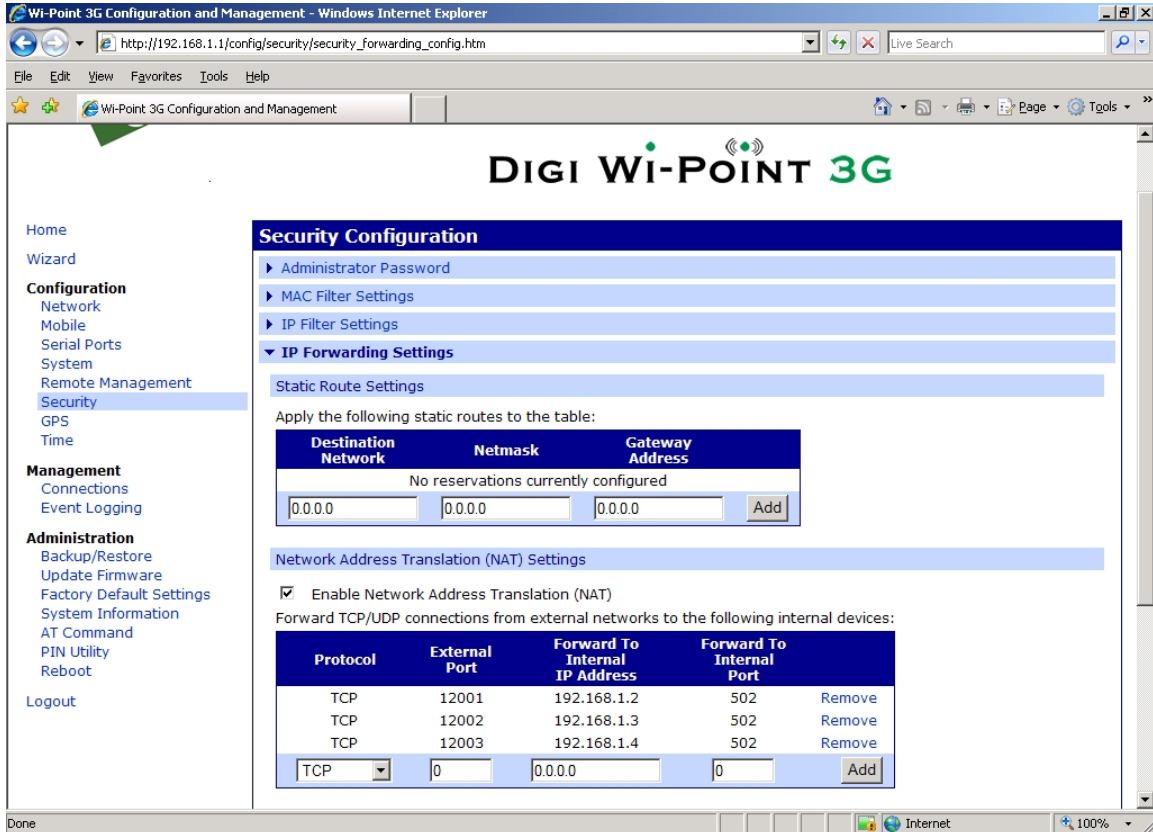
TCP port forwarding is used to forward the IP polls to one or more devices on the Digi Wi-Point3G WAN's Ethernet port. Different TCP port numbers are used to designate which device gets the proper traffic. The application *must* be able to support changing the TCP protocol port number from the default of 502. In this case the application is configured to poll according to this table:

Remote Device	Destination IP Address	Destination TCP Port
One	163.213.229.218	12001
Two	163.213.229.218	12002
Three	163.213.229.218	12003

Notice the destination IP address is the Digi Wi-Point WAN's mobile IP address

The Digi Wi-Point3G WAN is configured with a TCP/UDP forwarding table as follows:

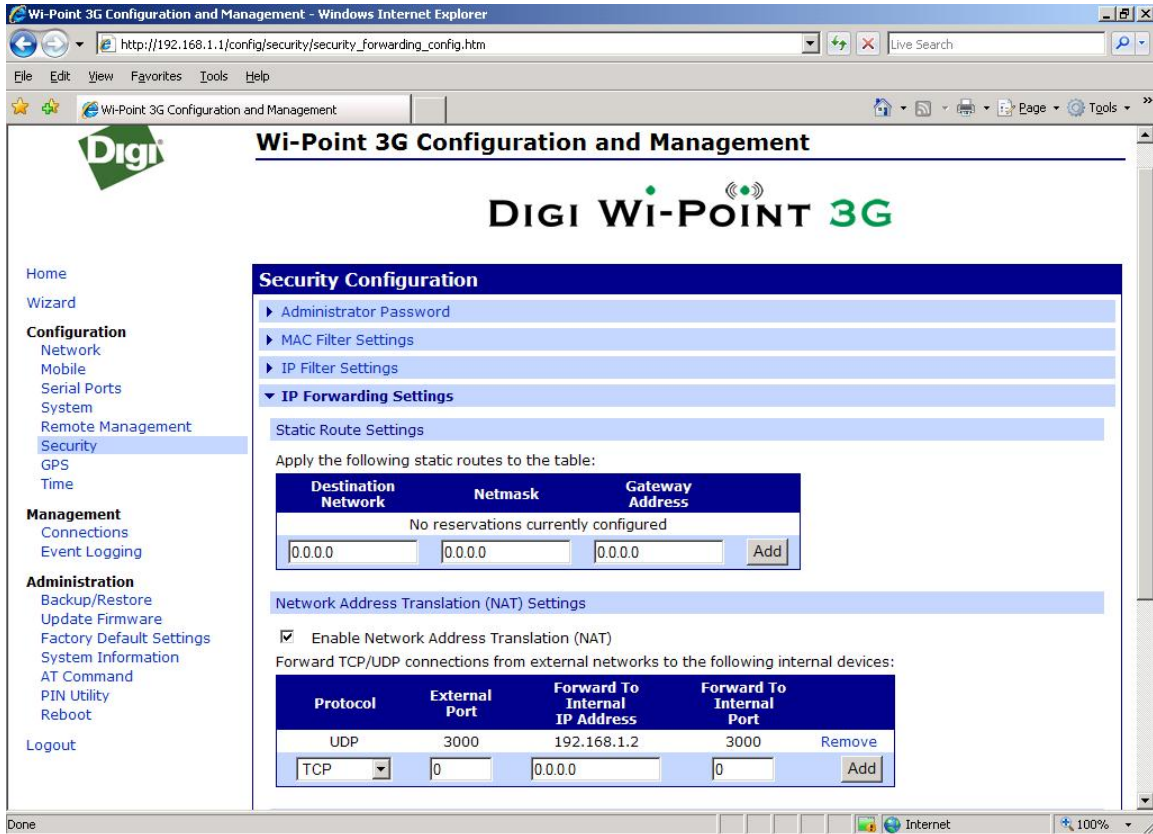
Source TCP	Port Destination IP Address	Destination TCP Port
12001	192.168.1.2	502
12002	192.168.1.3	502
12003	192.168.1.4	502



Incoming traffic is then 'routed' to the proper Device. The devices can use their standard TCP port of 502.

Here's an example of UDP Port forwarding.

Protocol	Source Port	Destination IP Address	Destination Port
UDP	3000	192.168.1.2	3000



Additional Assistance

If you have any questions or need assistance, please contact your Digi Wi-Point 3G vendor or Digi International at 952-912-3444, or Digi technical support at <http://www.digi.com/support/eservice/eservicelogin.jsp>.