Port Forwarding Explained by InThrMa

A typical home network has the following components:

- Internet
- DSL/Cable modem/router (with an Internet IP address)
- Home network
- Thermostat (with a LAN IP address)

The easiest analogy for Port forwarding is a telephone switchboard.

- 1. Jennifer is calling Joe at his office.
- 2. She calls the main line (212) 555-1000
- 3. The switchboard answers the call and Jenifer asks for Joe
- 4. The switchboard makes the connection and Joe's line rings at his desk.

In this analogy, the telephone network is analogous to the Internet connection you have

- 1. The main line is your router's Internet IP address
- 2. The switchboard is like the router
- 3. The company phone directory is like the port forwarding rules
- 4. Joe is the thermostat

	Is	Has		Is	Has
Internet	a public	millions of	Phone system	a public	millions of
	network	computers		network	phones
	connecting			connecting	
	computers			phones	
DSL/Cable	the gateway	A public	Switchboard	a gateway	A public phone
modem	between the	Internet		between the	number
	Internet and	address		phone	Ex: (212) 555-
	your	Ex:		network and	1000
	home/office.	128.2.23.44		the office	
	Routes	Or		phone system.	
	Internet	www.google.c		Routes phone	
	traffic.	<u>om</u>		calls.	
Home	the local		Office phone	the office	
network / LAN	network in		system	phone system	
	your home				
Computers &	Your	a LAN (Local	Employee	Joe	an extension
devices in the	thermostat	Area Network)	with phone		Ex: x4567
home		IP address	extension		
		Ex:			
		192.168.1.1			