Fratech Multipath-IP STU

For Network Administrators

UDP Port Numbers:	

(To be filled in by installation company.)

Introduction

Multipath-IP is an IP (Internet Protocol) based communications system for back to base monitoring of intruder alarm systems. Multipath-IP communicates using UDP data on multiple IP paths (GPRS and Ethernet) to communicate alarm information and polling.

The Multipath-IP requires an Ethernet connection with access to the public internet for UDP packets.

Many system administrators have concerns over security and stability when using third party devices on their network, particularly when those devices are required to be exposed to the public Internet. The purpose of this document is to outline security, data usage and network requirements for the Multipath-IP system

Data Integrity & Security

The Multipath-IP system communicates with the monitoring facility using fully encrypted (128bit AES) data packets, this includes the transfer of configuration data during the initial configuration.

AES (Advanced Encryption Standard) is the current world standard for strong encryption, and is considered by security experts to computationally secure for many years to come.

Furthermore, the Multipath-IP client device runs a dedicated real time operating system, developed internally by Inner Range and makes use of a proprietary IP Stack. Concordantly, this renders the device immune to current security vulnerabilities (including malware, viruses, and hackers) that affect PC Based Multitasking Operating Systems.

Data Usage

Typical alarm data packets are only 60 bytes in length. Typical data usage is less than four Megabytes per month, which in modern computing terms is effectively negligible.

Preparing for Multipath-IP Installation

1

Ensure the nominated ports are open

The Multipath-IP system communicates using UDP data. The port number that the Multipath-IP system uses to send the data should be noted at the top of this document. If there is no port number specified at the top of this document, please request this port number from the security installation company who is installing the Multipath-IP system.

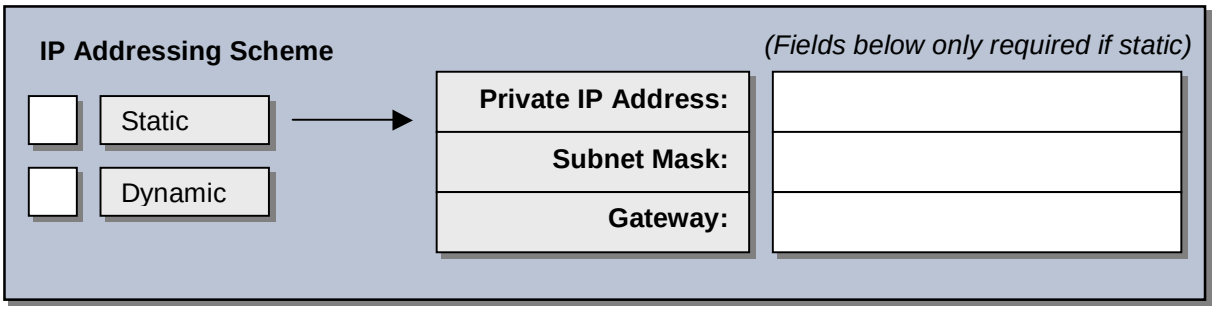
Please ensure that the firewall protecting the local network has the specific UDP port nominated by the central monitoring centre opened for outgoing & incoming packets.

2

Forward details of the IP Addressing scheme

The Multipath-IP system can be configured to use either dynamically assigned (DHCP) or static IP addressing. The administrator of the client's IT network can decide which addressing scheme is preferable.

Please forward the following information to the security installation company who is installing the Multipath-IP STU.



When configuring the Multipath-IP with a static IP Addresses it is important to provide the intended internal (private) address of the Multipath-IP unit to the monitoring facility, rather than the public or external address of the network. In order to translate between the private and public addresses, a NAT or Port Forwarding strategy should be used, as with any other networked device requiring public access.