Multipath iP
Intelligent Alarm Transmission Systems

The Ultimate High Security Alarm Transmission Technology

Path 1: Ethernet

Path 2: GPRS carrier 1

Path 3: GPRS carrier 2

Path 5: PSTN Contact ID

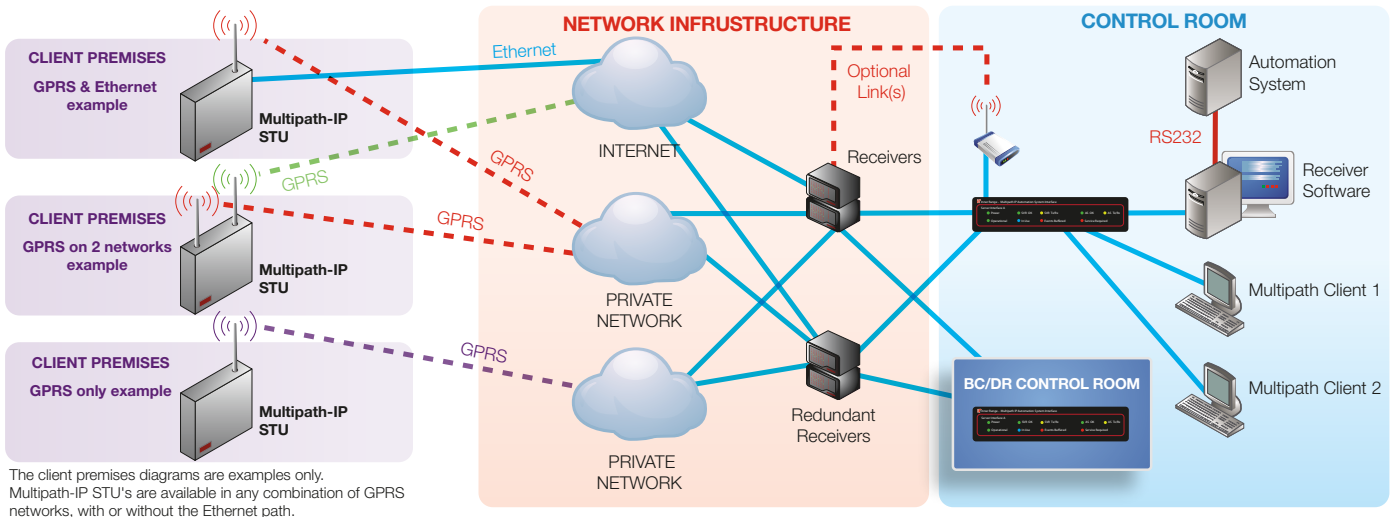Path 6: GSM Contact ID

New Generation IP Alarm Transmission Systems

- Support for 2G & 3G/NextG Networks

- Flexible Choice Of Wireless and Wired IP Paths

- High Speed Polling on all IP Paths

- Fail-Safe Dual SIM Network Redundancy

- Compatible With Most Alarm Systems

- Remote Arming And Control

- Remote Hardware Management for Bureau's

- Fully IR-Fast Capable

- Fail-Over Control Room Redundancy

- Fully Encrypted IP Transmissions
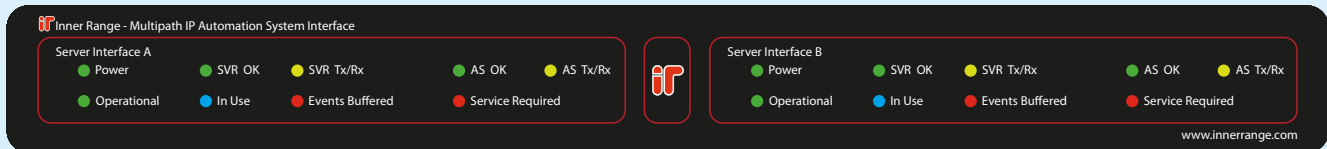
- Independently Certified to AS2201.5 Class 5

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inner range
Intelligent Security Solutions

New Generation Platform for Multipath Technology in the Monitoring Station

Drawing on all of the experience gained from more than 20 years as industry leaders in alarm transmission technology and more explicitly the last four years of targeted research in the field of IP Monitoring, Inner Range is now proud to release its all new second generation Multipath-IP technology. While still maintaining total compatibility with all existing field devices (STU's) this new technology offers a host of new functionality and flexibility which benchmarks Multipath-IP as the premier high security offering available today.

NETWORK INFRUSTRUCTURE

CONTROL ROOM

CLIENT PREMISES
GPRS & Ethernet example
Multipath-IP STU

CLIENT PREMISES
GPRS on 2 networks example
Multipath-IP STU

CLIENT PREMISES
GPRS only example
Multipath-IP STU

Ethernet

GPRS

GPRS

GPRS

INTERNET

PRIVATE NETWORK

PRIVATE NETWORK

Optional Link(s)

Receivers

Redundant Receivers

Automation System

RS232

Receiver Software

Multipath Client 1

Multipath Client 2

BC/DR CONTROL ROOM

The client premises diagrams are examples only.
Multipath-IP STU's are available in any combination of GPRS networks, with or without the Ethernet path.

Multipath-IP technology is available to central monitoring stations as a hosted service with no upfront costs to the monitoring centre, even if only one client is connected.

Inner Range - Multipath IP Automation System Interface

Server Interface A
● Power ● SVR OK ● SVR Tx/Rx ● AS OK ● AS Tx/Rx
● Operational ● In Use ● Events Buffered ● Service Required

Server Interface B
● Power ● SVR OK ● SVR Tx/Rx ● AS OK ● AS Tx/Rx
● Operational ● In Use ● Events Buffered ● Service Required

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Flexible Control Room Architecture

Multipath-IP monitoring systems can be tailored to meet the unique needs of the Monitoring Station including deployment across multiple sites and public or private networks

Multipath-IP monitoring station systems provide full support for IR Fast alarm transmissions as well as powerful High-Level remote-control functionality when using a Concept panel.

This allows operators to remotely Arm / Disarm Areas, Open / Lock doors and control any Auxiliary on a Concept 4000 panel without wiring key switch zones, and without using Upload Download software. Multipath-IP technology can be deployed on any IP based network, whether it is privately operated or provided by a Telco, with monitoring taking place seamlessly on all connected networks. For corporate applications a solution can be individually tailored to leverage existing corporate networks and other IT infrastructure. In addition to this, the technology is particularly flexible in its ability to accommodate a variety of multi-site disaster recovery strategies.

Multipath-IP Field STU's

The Multipath-IP customer premises field STU's are available in two varieties, each variety having several installation options.

Omnilink STU

The Multipath-IP Omnilink STU is a cost effective field device used to connect any ContactID dialler or Securitel equipped alarm panel to the Multipath-IP network.

It features Dual GPRS and Ethernet alarm transmission paths, high level RS232 Connection to Concept Panels and Securitel RS232/TTL Interfaces, allowing simple connection to the Securitel interface on many brands of alarm panel.

All-In-One Communicator

The Multipath-IP All-in-one Communicator bridges the gap between the alarm panel and transmission system by combining both devices into one simple to install solution.

It features a fully functional 10 zone alarm panel with dual polled GPRS + Optional Ethernet transmission system paths.

The Multipath All-in-one Communicator incorporates all of the standard alarm panel functionality packed into a compact low profile enclosure.

Part Number Guide

Omnilink

		2G Part Number	3G Part Number
PCB Only & Accessory Kit	Single SIM	998325A2T#-PK	998325A3T#-PK
	Dual SIM	998325A2TV-PK	998325A3TV-PK
Extra Small Metal Enclosure with Accessory Kit & PSU (Will Fit 7Ah Battery)	Single SIM	998325A2T#-XS	998325A3T#-XS
	Dual SIM	998325A2TV-XS	998325A3TV-XS

All-In-One Communicator

		2G Part Number	3G Part Number
Small Metal Enclosure with Keypad (Will Fit 7Ah Battery)	Dual SIM	998340A2TV-S	998340A3TV-S
ATM Enclosure with Keypad	Single SIM	998340A2T#-A	998340A3T#-A
	Dual SIM	998340A2TV-A	998340A3TV-A

Multipath-IP Omnilink STUs include provision for a high level interface to Inner Range Concept 3000/4000 panels.
This interface provides advanced functionality such as remote Arming/ Disarming, Door lock & Unlock and Auxiliary control features.
With Multipath-IP all paths are monitored and if one path fails then that failure, along with any alarms, is reported via another path.
Multipath-IP maximizes reliability of communications, regardless of the communication path it chooses.

Multipath iP

Intelligent Alarm Transmission Systems

Multipath-IP Provides the Ultimate Alarm Monitoring Solution for Your Property and Critical Assets

Outstanding Range of Features

- Compatible with most existing alarm systems
- Low cost, Quick Solution with High Availability
- Easy To Install - Streamlined installation processes
- 24/7 Always on Security Monitoring
- Used by Leading Monitoring Service Providers
- Compliant with most major insurance companies requirements
- High Reliability designed by Australia's leading Security Manufacturer

- Reduce traditional Dial Up Alarm monitoring Costs
- Highly Secure Encrypted Alarm Transmission Technology
- Alarm panel polling in accordance with the Security Standards
- Coverage from Telstra, Optus & Vodafone on GPRS 2G & 3G
- Optional Hardwired Ethernet IP Connections
- Remote arming and control
- Stand Alone Option - No alarm panel required

How it Works

Multipath-IP utilises Internet Protocol (IP) based technologies, combined with traditional alarm reporting systems to deliver critical alarm events from a client's premise's to the Monitoring Control Room via a secure, reliable and lightning-fast IP transmission system.

High security monitoring is achieved using a polled communication system where field hardware modules (STU's) are installed in a client's premises and communicate with the monitoring control room at intervals as frequent as every 10 secs. If these polls fail to be delivered within the allocated time Multipath-IP will attempt to re-establish the connection to the monitoring station using an alternative path and one of several alternative Telco providers.

If a failed connection cannot be re-established within a pre-determined time then an alarm is raised within the monitoring station.
Multipath-IP supports most existing alarm systems and is compliant with most major insurance companies requirements. It is an ideal upgrade from traditional dial up systems and the perfect replacement for out-dated technologies such as direct line or Securitel. Installation of equipment into the clients premises is a simple process with no ongoing programming required. Multipath-IP is independently certified to Australian standard AS2201.5 class 5 which is the highest IP monitoring standard available.

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