

FEATURES & BENEFITS:

- Gateway between HF & V/UHF and IP networks
- Multiple Gateway IP interconnect routing
- Email & GSM SMS Gateway
- EMCON support
- Chat interface: Broadcast and Point-to-point
- Broadcast on all scan list frequencies
- File transfer capability
- External Email Client Interface
- Delivery Notification
- Compression, Resumption, Prioritization
- MS Windows® Software Package

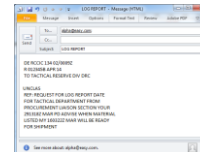
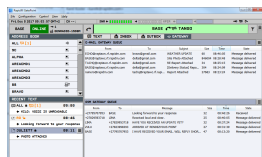
Message Routing: Radio To Fixed Network

GATEPOINT is a Microsoft® Windows® application that interfaces between the radio network and the IP, Email and GSM networks (fixed infrastructure).

THE **GATEPOINT** email interface, together with **RT** and **RA** modems and terminals, offers users the ability to route emails and SMS messages efficiently and reliably over existing HF and V/UHF radio links.

The **Multi-Gateway** routing capability drastically improves HF radio network connectivity by allowing existing transmit and receive stations to be interconnected. Messages and data can thus be routed through multiple possible shore stations in an intelligent mechanism using the best available path.

Email is supported via the POP3 & SMTP interfaces. Users can compose emails using well known email clients such as Microsoft® Outlook® and Thundebird™. **GatePOINT** will ensure they get delivered accurately to other users on the radio network.



GATEPOINT BASICS

GatePoint serves as bridge between various networks, with the Radio Network on one side and the Email Intranet and/or GSM Network on the other side. One **GatePoint** is typically installed per network requiring bridging for the purpose of sending Email or SMS messages to and through.

EMAIL GATEWAY FUNCTIONALITY

GatePoint can bridge the Radio Network with the local intranet typically at a command post. This allows Radio Network users to send and receive email from remote locations.

SMS GATEWAY FUNCTIONALITY

GatePoint can bridge the RF network with the GSM network and the local intranet. This allows users with **RT** and **RA Terminals** to exchange SMS messages with mobile phones and emails with standard email addresses.

GATEPOINT CONNECTIVITY

The **GatePoint** PC connects to the various networks as follows:

- **Radio Network:** Ethernet connection to **RT** and **RA Terminal / Modem**
- **Email Network:** Ethernet connection to network switch or Email Server
- **GSM SMS Network:** USB connection to GSM Modem
- **Other GatePoint gateways:** Ethernet IP connection (Multi-Gateway)

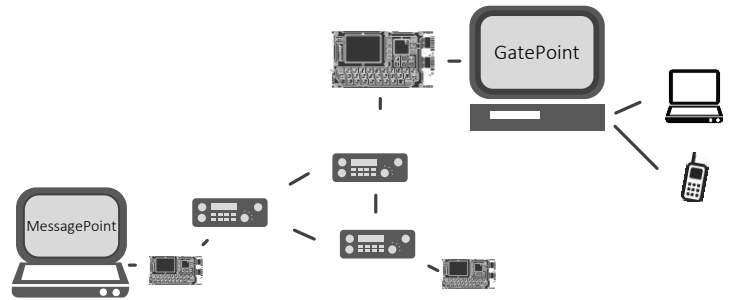
MULTI-FREQUENCY ALE SUPPORT

GatePoint optionally uses the Automatic Link Establishment (ALE) function of the **RT** and **RA** modem to enable efficient multi-frequency operation.

GATEPOINT ADVANTAGES

- Reliable delivery of messages using Automatic Repeat reQuest (ARQ) protocols.
- Address book of radio network email users
- Message prioritization
- Automatically retry and resume of undelivered or interrupted messages
- Message compression and JPG image resizing
- Message delivery status logging & viewer
- Ease of use, configuration and installation
- Message delivery progress indication

GATEPOINT DIAGRAM



GATEPOINT SOFTWARE	
MESSAGING	Chat messaging (broadcast and point-to-point), File Transfer, Email with attachments. Recipient selectable via Address Book. Broadcast to all users, individual users and over all frequencies in the ALE scan list.
VOICE	Secure Digital Voice call support: Initiate, terminate
MULTI-GATEWAY	Max 8 Gateway nodes per network 1x Primary gateway 7x Secondary gateways Broadcast repeater capability Multi-hop routing Security: Elliptic Curve Diffie-Hellman key exchange over TCP/IP network, AES-256 encryption over TCP/IP network
MODEM CONTROL	ALE (Automatic Link Establishment), ALM (Automatic Link Maintenance) ARQ Data (Automatic Repeat reQuest), Collision Avoidance and Recovery EMCON (Emission Control, Radio TX inhibit) STANAG 4538 (3G) Modem support (RAP1 / RIPC protocol)
OPERATING SYSTEM	Windows® 7, Windows® 8.1, Windows® 10 32-bit and 64-bit
MINIMUM SYSTEM REQUIREMENTS	32 GB HDD/SSD Storage 4GB RAM Memory 10/100 Ethernet Port 1024x768 Screen Resolution Compatible GSM Modem (for SMS gateway functionality) COTS Email Server (for email gateway functionality: SendMail, Hmail, etc)

GATEPOINT INTERFACES	
USER INTERFACE	Address Book, Chat client, Recent chats, Modem status, Network status, Email Inbox & Outbox status User define "Quick Messages", GPS position display
EMAIL CLIENT INTERFACES	POP3 (RFC 1939, excluding APOP) SMTP (RFC 2821, excluding authentication)
GSM MODEM	RS-232 or USB: AT Commands
MULTI-GATEWAY	Ethernet TCP/IP
MODEM INTERFACES	Ethernet TCP/IP (Data + Modem Control)
DEVICES SUPPORTED	RA2, RA7, RT7: Interfaces to GatePoint via RJ45 Ethernet Cable RA5, RT5: Interface to GatePoint via P17W Ethernet Cable RA3, RT3: Interface to GatePoint via P17W Ethernet Cable

ORDERING INFORMATION	STOCK NUMBER	DESCRIPTION
GATEPOINT V4 SOFTWARE ONLY	RAP-PC-GPSW-VE4	PC S/W: GatePoint Email, GSM, UM EN V4
GATEPOINT V4 SOFTWARE WITH RX5 CABLE	RAP-PC-GPKP-VE4	PC S/W: GatePoint, Cable P17W EN V4
GATEPOINT V4 SOFTWARE WITH RX3 CABLE	RAP-PC-GPKA-VE4	PC S/W: GatePoint, Cable 62IN4P EN V4
PC S/W: GATEPOINT VER 4 – EIGHT LICENSES	RAP-PC-GP08-VE4	GatePoint Software x8 Version 4

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Revision: RGW_EN_02E