SafecomLink

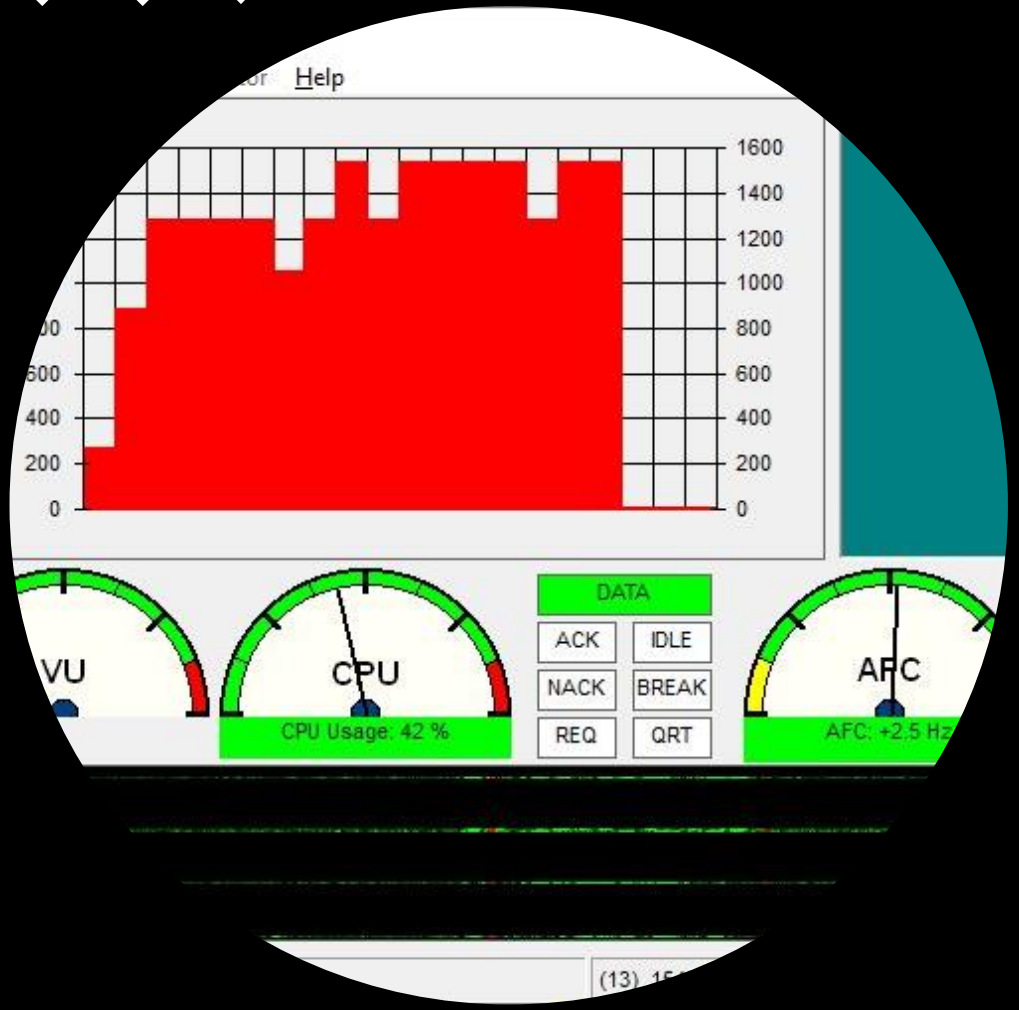
(Also known as VarAC)

WHEN EVERYTHING FAILS,
SAFECOMLINK DELIVERS

V1.2

About SafecomLink

SafecomLink offers robust radio communication software, equipped with a diverse range of features tailored to support both routine daily operations and emergency communication requirements.



The VARA protocol

SafecomLink utilizes the advanced VARA protocol, renowned for its exceptional capabilities in delivering high-speed, error-free data transfer across HF/VHF/UHF frequencies.

The protocol exhibits resilience against challenging signal-to-noise ratios and ensures optimal performance even at low transmission power levels.

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SafecomLink performance

Unmatched performance within the industry

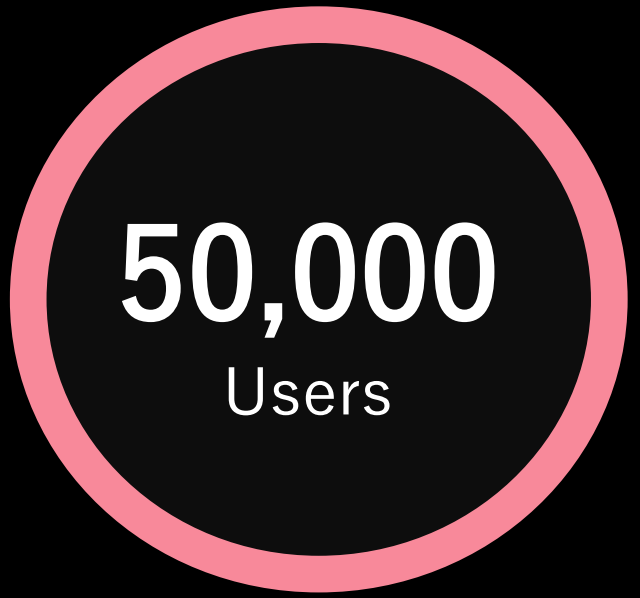
Well-received even in harsh conditions and low power

HF / Satellite Top speed

VHF/UHF Top speed

SafecomLink user base

SafecomLink stands as the premier emergency communication platform worldwide.

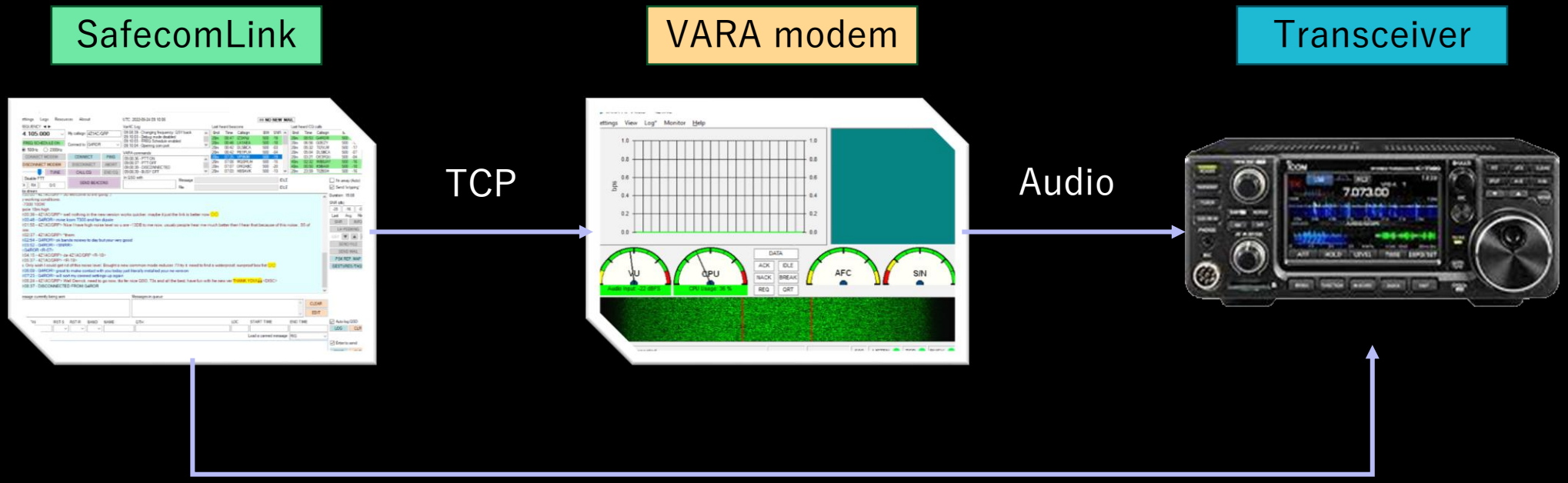


Widely used In over 100 countries by:

- Emergency communication agencies
- Crisis management agencies
- Amateur radio operators

SafecomLink Architecture

Simple and easily maintainable architectural design



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SafecomLink Transceiver Control

SafecomLink performs all necessary tasks to activate your transceiver. It supports multiple transceiver models and popular "bridge" software.

Supported Direct CAT control manufacturers:

- Kenwood
- Icom
- Yaesu
- Elecraft
- Flexradio
- Apache labs
- Anytone
- Alinco
- Elad
- Tentec
- Xiegu
- SmartSDR
- QRP Labs
- Expert electronics
- And more…

Supported “Bridge” Software

OmniRig

Hamlib

FLRig

All-in-one solution

Everything you need, all in one place.

Beacons
Narration
Distance & Bearing
Speller
Unattended link
EmComm
Digipeating
Mailbox
Ping
Frequency scheduler
Live link
Translations
Compression
Alert tags
Forms & Templates
Broadcasts
Logging
Gestures
Cluster
Relay notifications
File transfer

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Operational Mode

Daily Operations with SafecomLink

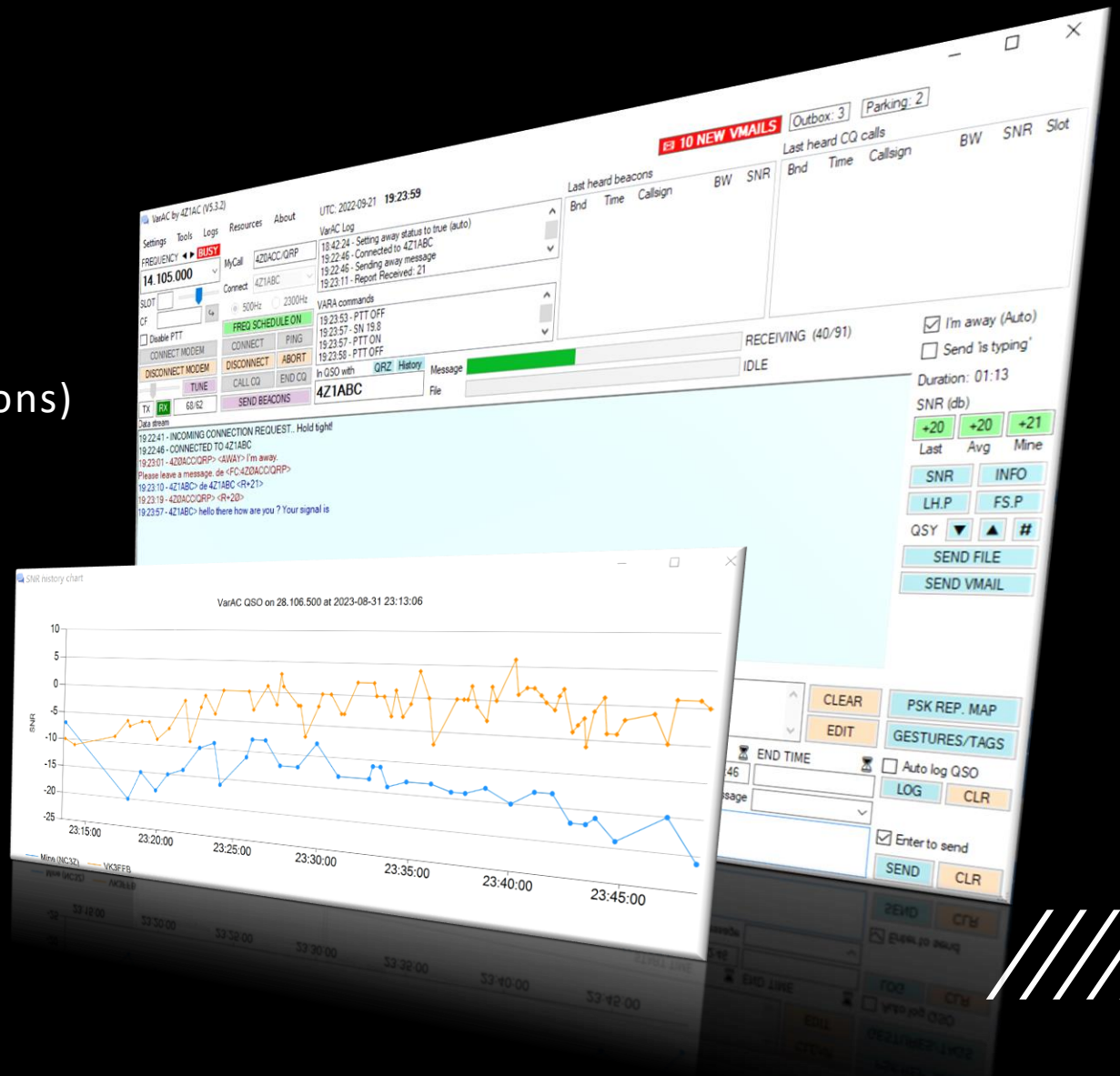
SafecomLink equips you with all the essentials to ensure prompt, reliable delivery of your messages, whether you're navigating the sea, traversing land, reaching remote regions, or soaring through the skies.

Daily operations features

- **Live Link** – Connect and chat
- **Hand raise** – Request a Live Link
- **Contact history** – keeping track of every bit
- **SafeMail Box-** Send & Receive mails
- **Synchronous frequency hop** – for optimal link
- **File transfer** – Including images
- **Profiles** – Easy switch between different setups
- **Safelink Cluster** – For cross-band operations
- **GPS integration** - Reflect current location

Live Link

- IS TYPING indicator
- Multilingual
- Message queue
- Periodic Caller ID (to comply with local regulations)
- Emojis, tags, gestures & sounds
- Logging communication history
- Bidirectional SNR exchange
- Automatic logging
- Tracking SNR levels on a live graph



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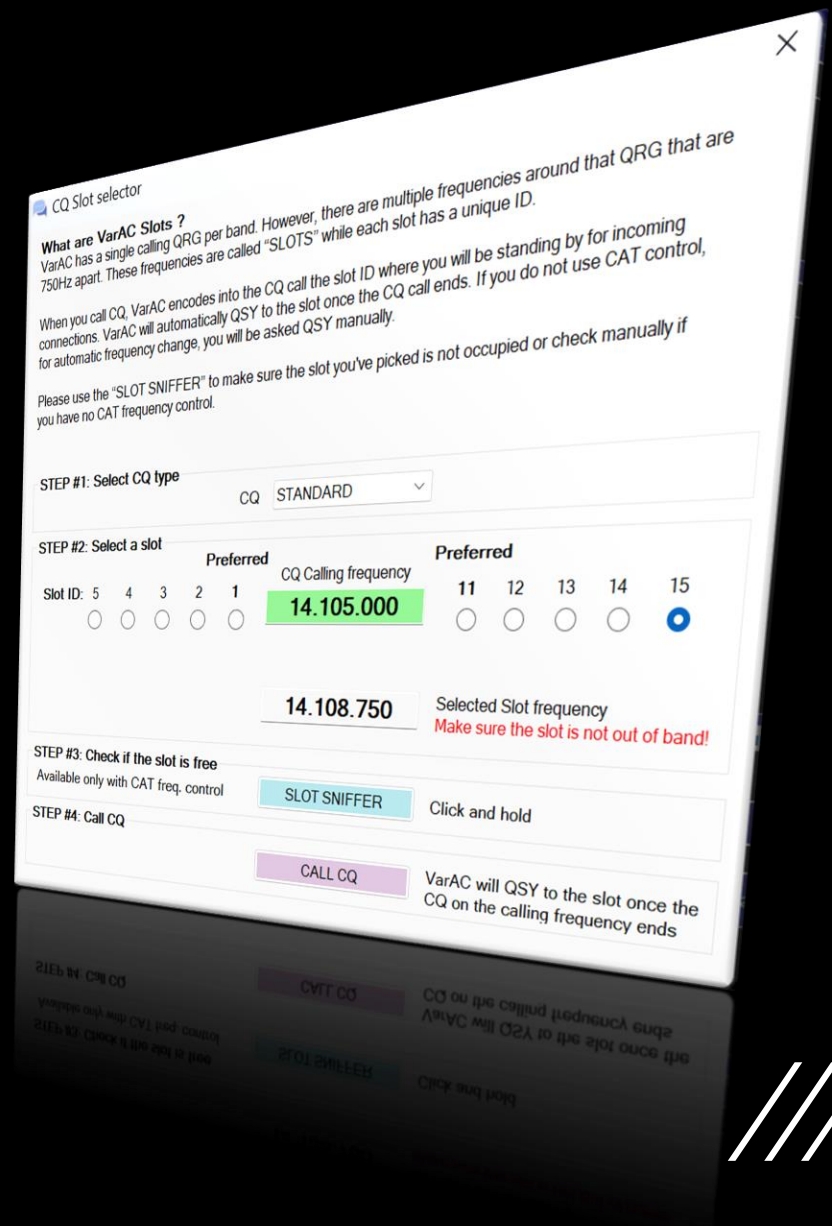
Hand Raise

The hand raise feature is utilized to alert all receiving stations of your interest in initiating a Live Link.

- Customize the reason for your hand raise to be included.
- Choose a destination frequency to accept the Live Link.
- Utilize the frequency sniffer to validate that the destination frequency is available.



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Contact history

Manage all contact data, which includes:

- Metadata from previous links
- Live link chat history
- Broadcasts
- Beacons and hand-raises

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SafeMailBox

- SafeMails left for unattended stations
- Relaying SafeMails to a third party through a mediator
- Relay notifications - receive alerts about pending SafeMail
- Queueing SafeMails for delayed delivery

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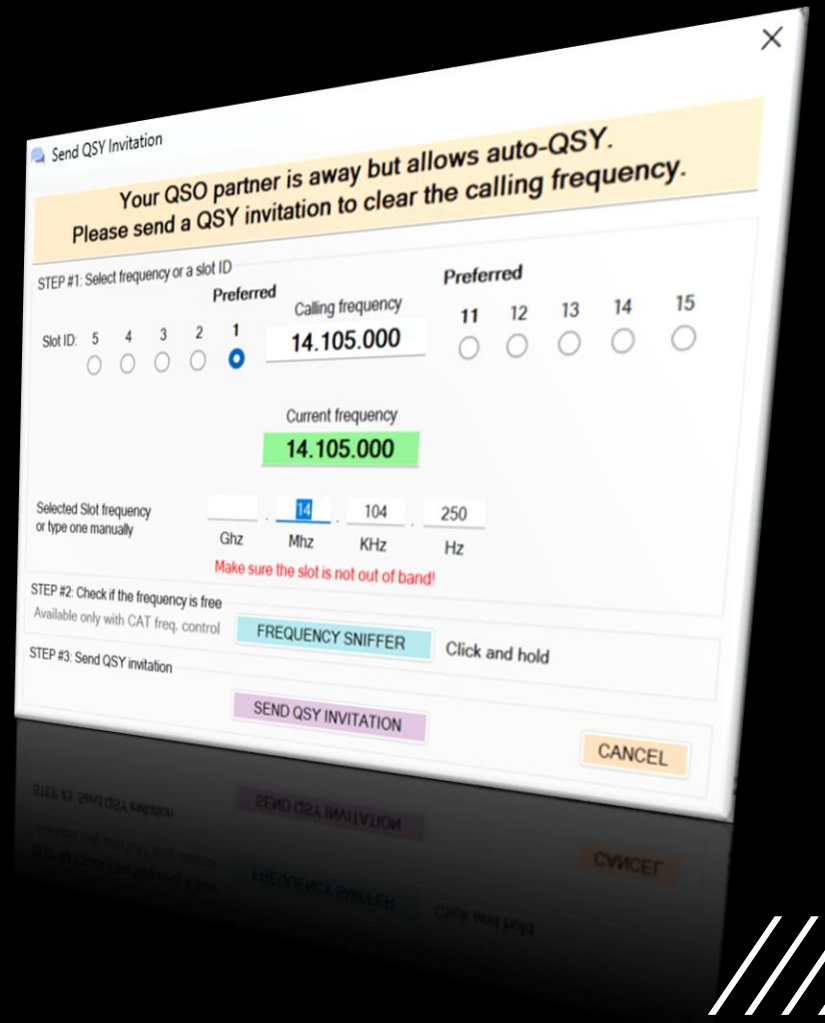
Synchronous frequency hop

- Smooth transition to another frequency during an ongoing link
- Clearing a shared calling frequency once a link is established
- Hop sniffer: ensuring the target frequency is available

Two types of hops:

- Quick hop - shifts up or down a slot (default is 750Hz)
- Freeform hop - allows selection of a frequency



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File / Image transfer

- Sending/receiving binary files of any type
- Displaying images (PNG/JPG/GIF) in the live-link stream
- Performing file compression
- Enforcing incoming file size limits

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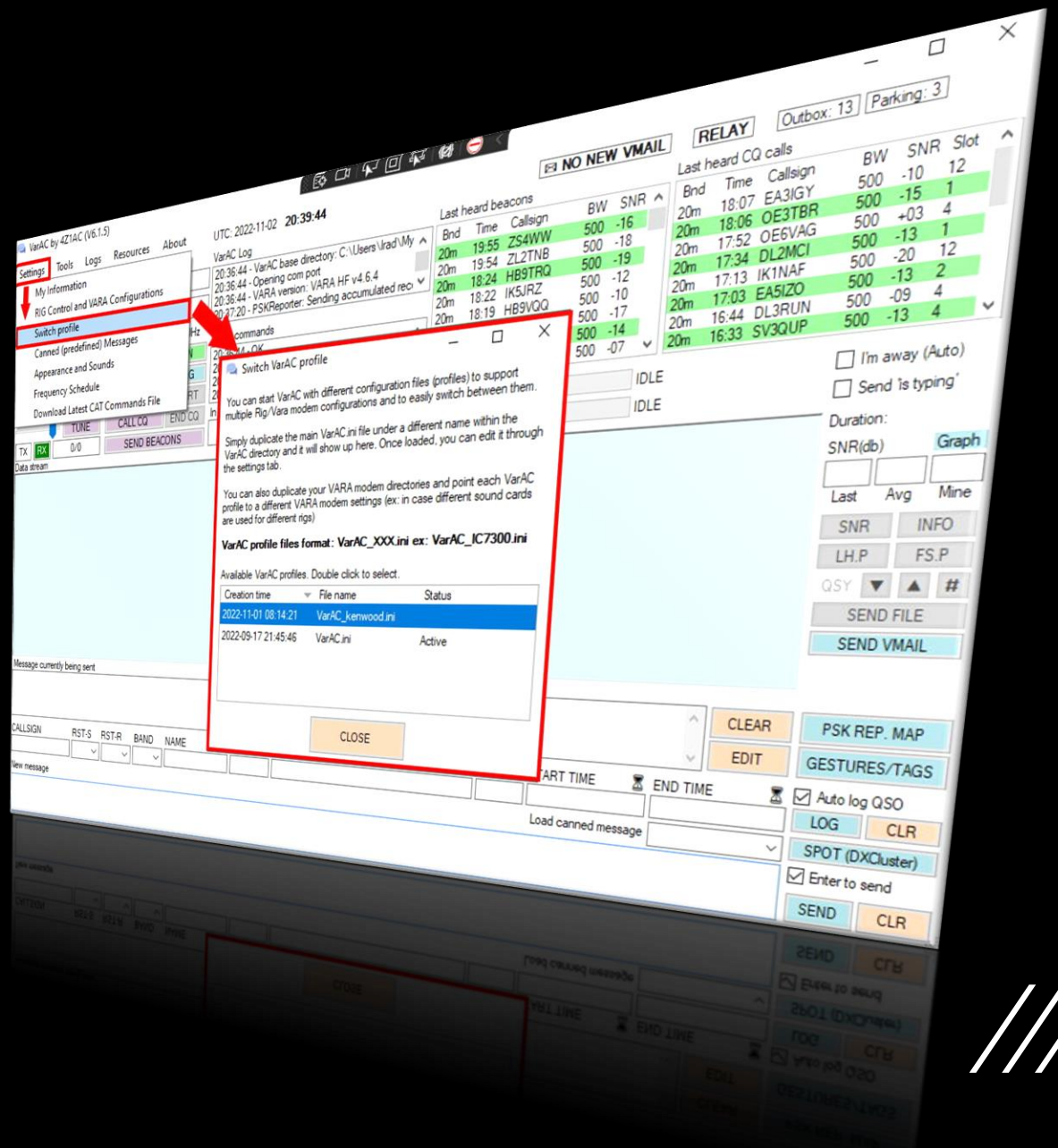
Profiles

- Supporting multiple transceivers/setups
- Quickly switching between profiles



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SafecomLink Cluster

- Operate multiple profiles from a single installation.
- Manage multiple transceivers simultaneously.
- SafecomLink resources will be shared among all instances, including mailbox and alerts.
- Ideal for cross-band SafeMail relays.

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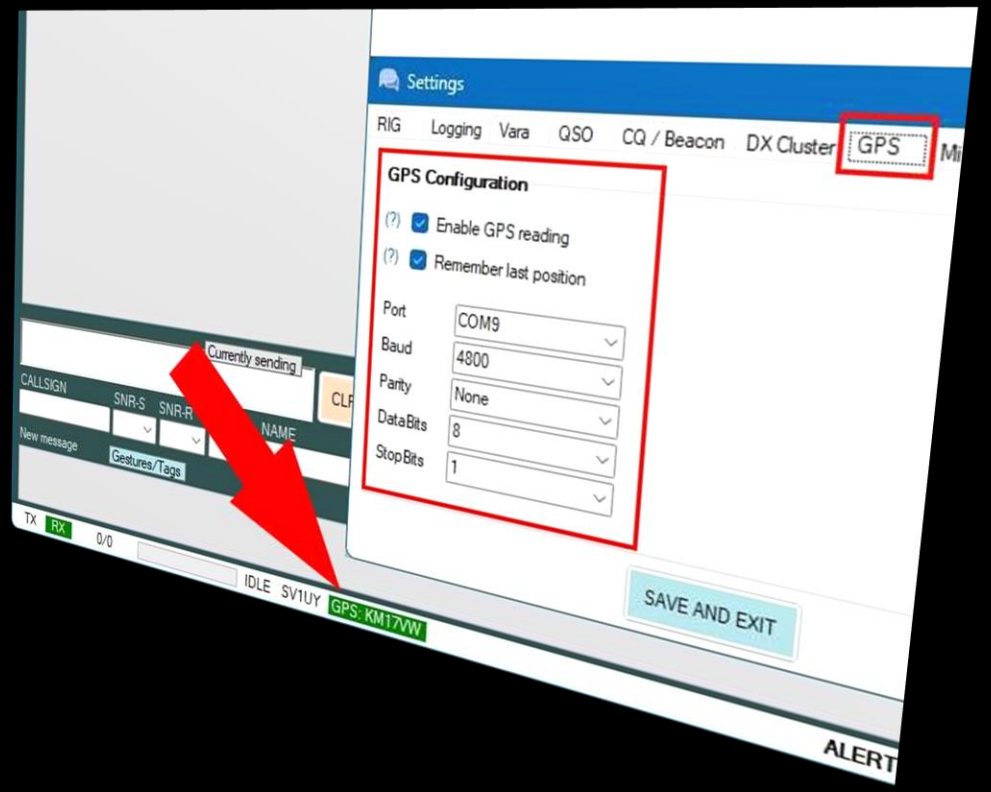
SafecomLink GPS integration

- Works with typical NMEA GPS devices
- Instantly fills in your Grid location
- Remembers your last position when starting up
- Shares location effortlessly with preset message tags



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Additional features

- Listening mode (PTT disabled)
- Customization of appearance (font size and colors), including dark mode
- Blocking list
- Pings for link validation testing
- Away status (automatically toggled when unattended)
- Displaying link distance and bearing
- Translation (using Google Translate)
- Speller (English only)
- Real-time narrations (messages, alerts, beacons, hand-raises, broadcasts…)

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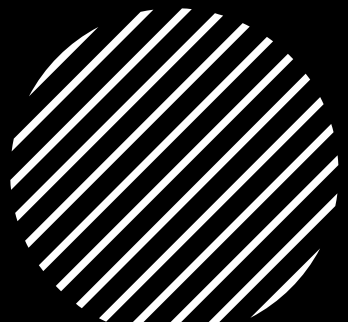
Emergency Communication Mode

Emergency communications with SafecomLink

When confronted with a crisis, SafecomLink stands as the sole platform offering a complete and all-encompassing emergency communications solution.

EmComm Key features

- Broadcast: a one-to-many messaging system
- Beacons: keeping track of EmComm stations
- Alert tags: real-time alerts (with visual and sound)
- Digipeating: for extended reach
- Forms: standardized emergency messages
- Frequency scheduler: optimal message delivery 24/7



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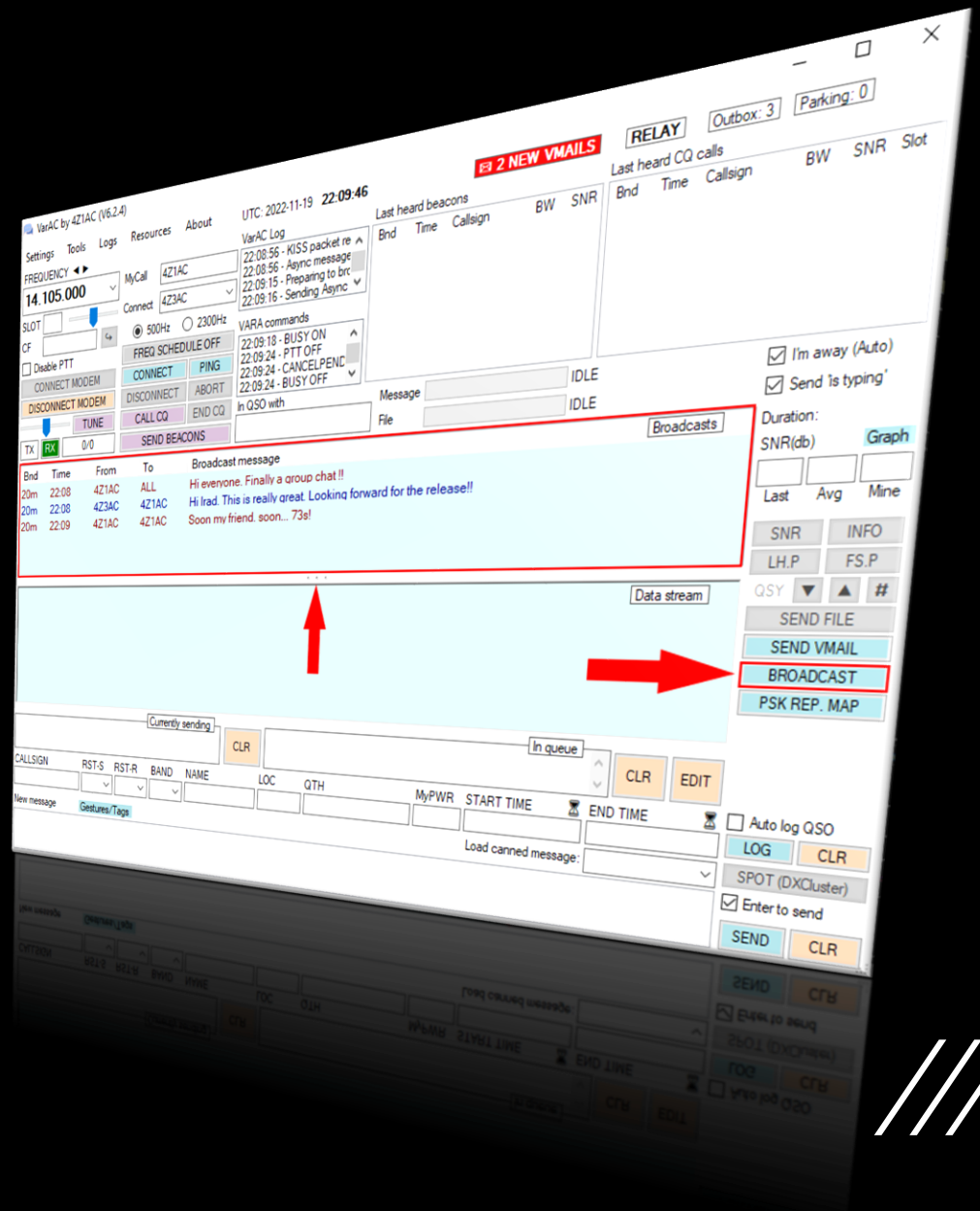
Broadcasts

Broadcasts consist of asynchronous message packets:

- Sending alerts to multiple destinations at once
- Adapting speed levels for optimal delivery
- Utilizing predefined messages/alerts



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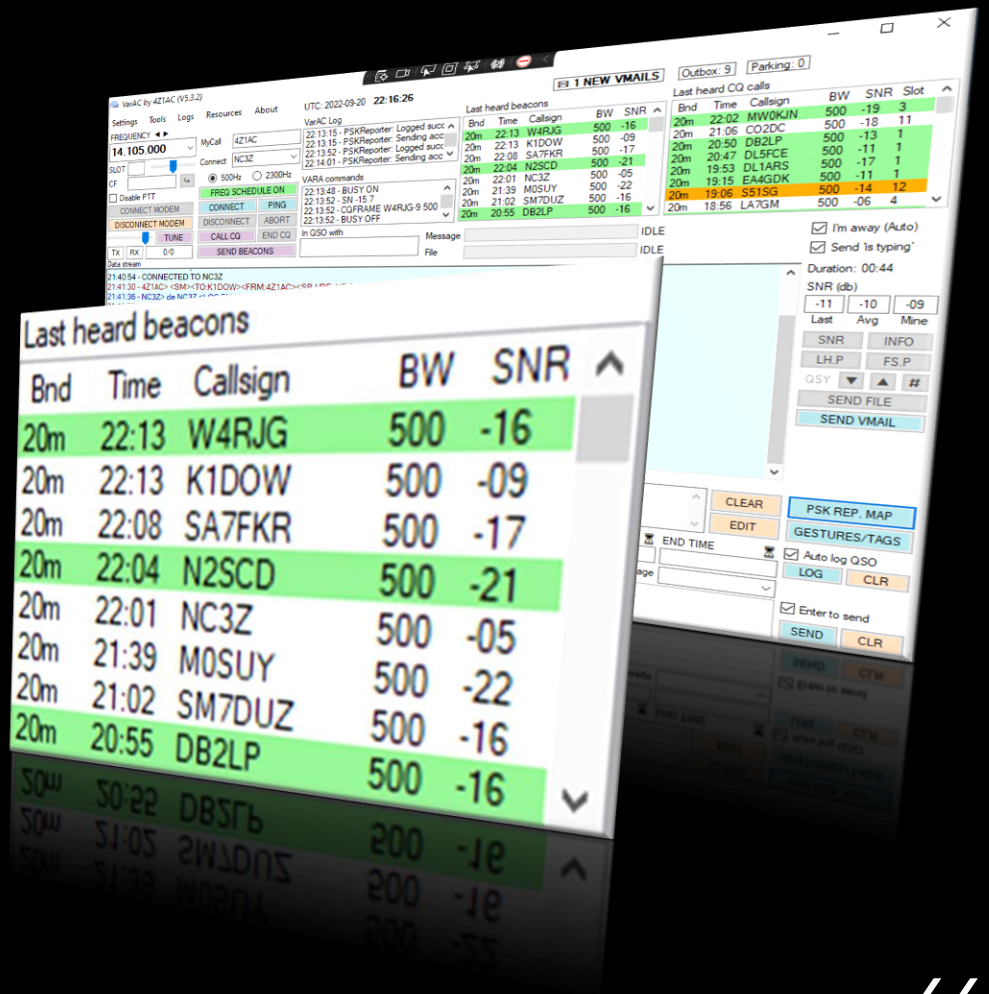
Beacons

Beacons are transmissions sent periodically at fixed intervals:

- They indicate your availability status to others
- See who else from your team is available
- Used to assess EmComm station propagation
- Beacon intervals can be customized



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Alert Center & Alert tags

Alert tags are pre-defined strings that generate visual and sound alerts upon reception.

- Sent in one-to-one or one-to-many formats
- Customized tracking is available for Beacons, Hand-raises, Broadcasts, and Chat
- Alert visualization can be customized
- Easily distribute the alert tag dictionary among EmComm group operators

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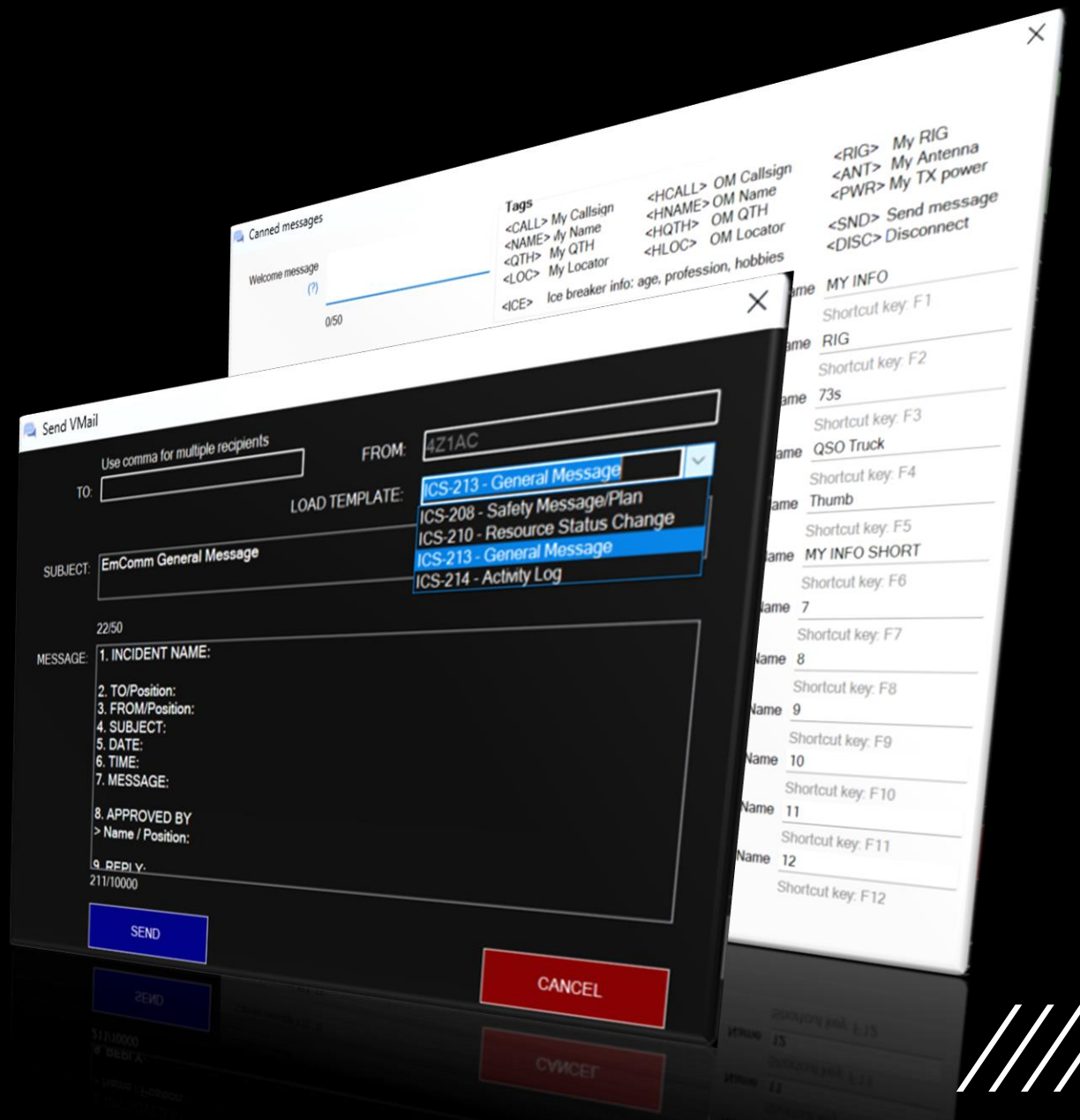
Forms & Templates

SafecomLink includes standard predefined EmComm message templates (ICS standard).

- Create your own templates.
- Send prewritten messages with keyboard shortcuts.



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Frequency scheduler

- Automatically switch frequencies or bands as needed.
- Maintain contact with your EmComm stations around the clock.
- Support up to 10 schedules.

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SafecomLink Packages

	Standard	Pro (Most Popular)	Enterprise
Live Link (Chat)	X	X	X
Automatic frequency change	X	X	X
Beacons	X	X	X
GPS integration	X	X	X
Transceiver control	CAT Only	Multiple protocols	Multiple protocols
Broadcast		X	X
MailBox		X	X
Frequency scheduler		X	X
File/Image transfer		X	X
Alert Center		X	X
Logging			X
Message templates			X
Path finder			X
Hand-Raise			X
Image compression			X
Link performance analyzer			X
Setup profiles			X

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Thank you

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