

CHALLENGING REQUIREMENTS? NO PROBLEM



More than just a simple personal role radio, Codan's Sentry-U 6160-PR offers full duplex voice, data and situational awareness communications as standard. Applying cutting edge technology to reduce operator burden and permit dynamic scaling, the Sentry-U 6160-PR uses automatic retransmission to extend range between devices. Retransmission is self-establishing with no complex programming required.

Designed with electronic warfare in mind, the Sentry-U 6160-PR uses license-free UHF bands and advanced spectrum spreading waveform technology to make the radio's signal disappear amongst background noise, combined with frequency hopping as standard to render the network almost impossible to detect or jam.

16 channel presets and 64 networks allow talkgroups to be easily created based on unit, role and hierarchy. With user-definable dual PTTs, specific talkgroups are reachable at the push of a button.

RUGGED
Designed to IP67 for water ingress and MIL-STD-810F, withstanding the toughest environments, operating in temperatures from -30°C to +60°C.

ECCM
Combining frequency hopping, Direct Sequence Spread Spectrum waveform technology and impulse transmission, the Sentry-U 6160-PR is designed to be nearly impossible to detect or jam.

ENCRYPTION
CVSD digital voice and programmable AES-128 keys ensure security from end to end. The Sentry-U 6160-PR can be emergency zeroized in seconds, leaving the radio useless to the enemy - but still able to be tracked and audio monitored by friendly forces.

COST COMPATIBLE
The Sentry-U 6160-PR uses standard AA/LR6 batteries, accepting all power formats both consumable and rechargeable. Compatibility to both military grade and civilian off-the-shelf manufacturers eliminate the ongoing consumable and spares cost to the client.

INDUSTRY LEADING SIZE & WEIGHT
At less than 12cm high and weighing less than 350g (exc. battery and antenna), the Sentry-U 6160-PR is comparable to the size and weight of three .50 calibre rounds.



OUR PROCESS

Solving challenging requirements is what we do best



ASSESS

Our technical consultants will conduct a detailed on-the-ground assessment of:

- Human needs
- Operational environment
- Opportunities and challenges
- Cultural context
- Scenario planning



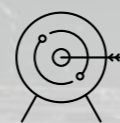
DESIGN

Our field service team will then design a custom solution for those challenges, using the right hardware and software from Codan or one of our technology partners.



DEPLOY

Our specialist logistics team gets the hardware and the resources to wherever you are, getting your system up and running fast.



TRAIN

We'll train operators and communications staff on how to use the system – which will be a short process, thanks to our easy-to-use interfaces and interoperability.



SUPPORT

We're available to be deployed within 24 hours for any support required. And we're always on hand for any advice you require.

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HANDHELD

SENTRY-U 6160-PR



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CODAN SENTRY-U 6160-PR SOLUTION



The Sentry-U 6160-PR has been designed for fast-paced combat operations, blending cutting-edge engineering with an understanding of tactical requirements.

Codan knows that in a combat situation, the operator cannot afford to take his attention from his environment even for a second to manipulate a radio. The 6160-PR incorporates a host of features and accessories to make this possible.

VOX

Vox, or voice activation, allows the operator to speak directly to members of the unit without even needing to push a button. Ultra sensitive audio detection carries communications at less than whisper level for when noise discretion is a necessity. Full duplex 'conference' operation allows members to communicate together instantly, without needing to wait for a break in channel traffic.



In-ear audio prompts

With no screen, radio operations such as channel changes, powering and battery level indicators are all audio based, allowing the operator to manipulate the radio 'blindly', with in-ear prompts giving information on the radio's status. These audio prompts are fully user definable for any language.



Frequency hopping wireless PTT

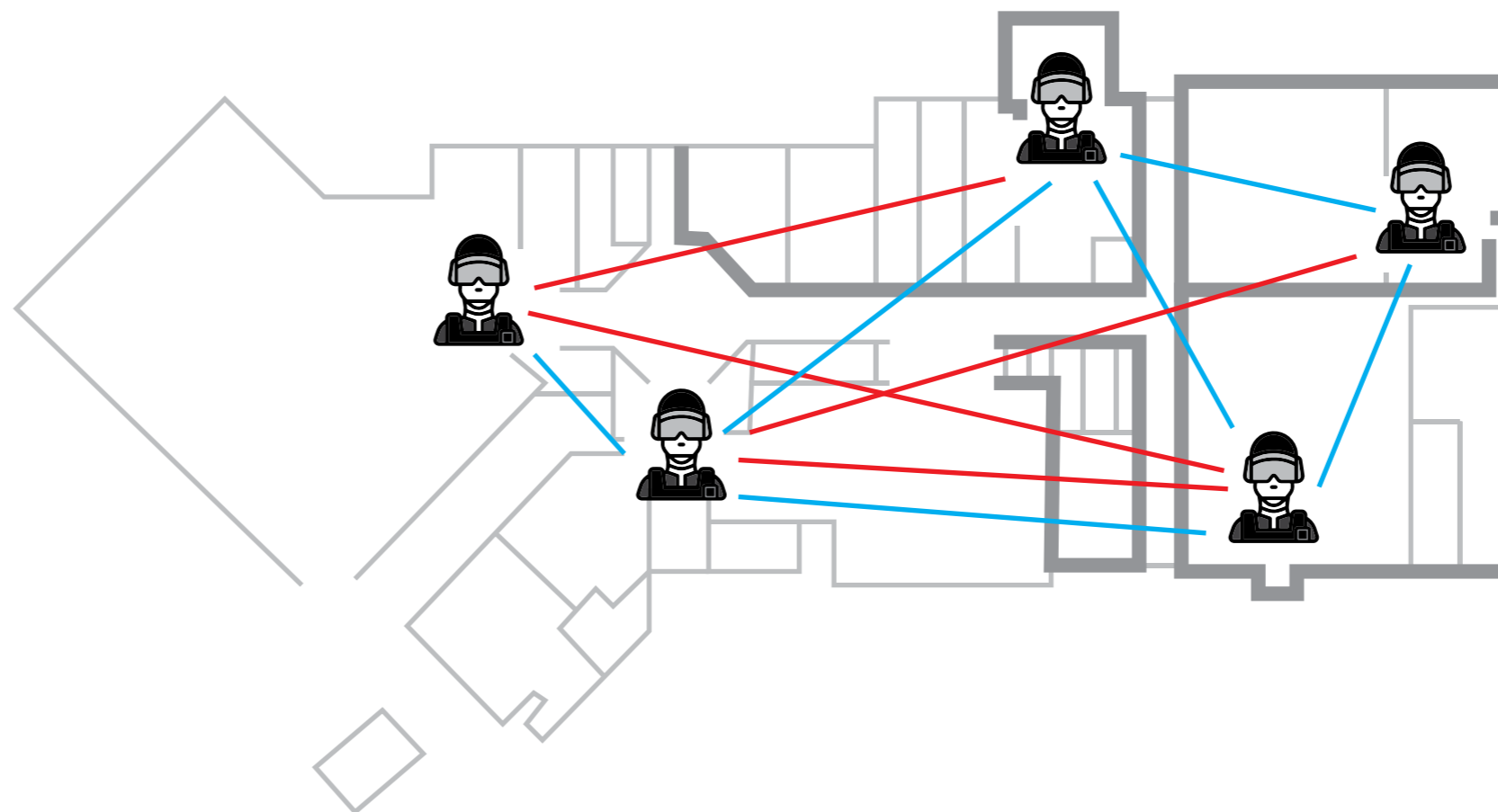
Custom built on a client by client basis and frequency hopping to prevent any possibility of hacking, jamming or accidental triggering, wireless PTTs are assigned to a specific radio in seconds. The 2m wireless range eliminates the potential of audio cables snagging, looping or being torn during dynamic movement. The operator is able to push the PTT without ever taking his hand from the weapon.



SWaP

Ruggedized to MIL-STD 810G but weighing 345 grams and measuring less than 12cm high, the Sentry-U 6160-PR can be carried in a pocket, magazine pouch or strapped anywhere to the operator's equipment or body, without restricting the operator's movement in any way.

YOUR CODAN SENTRY-U 6160-PR SOLUTION

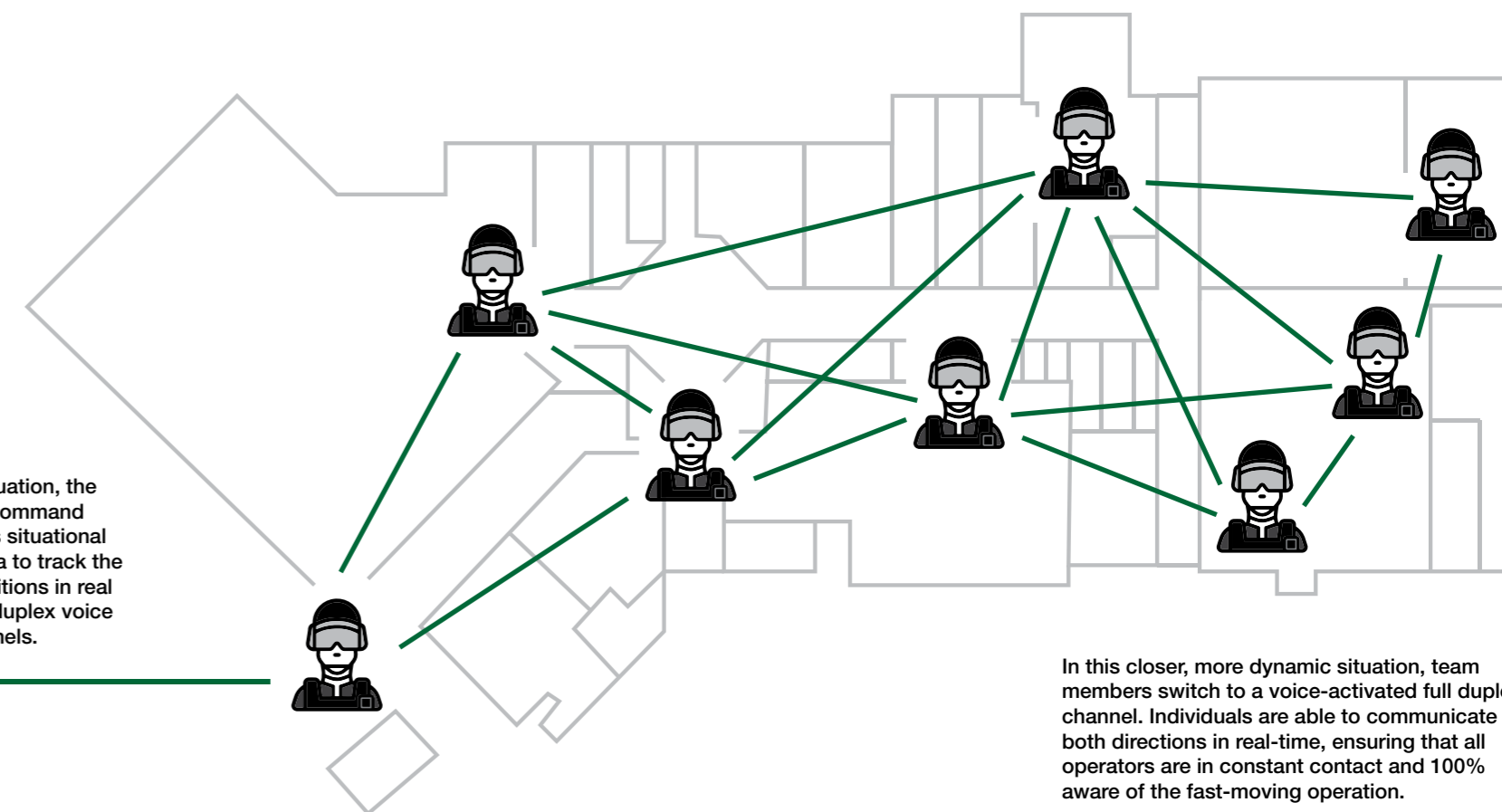


In this diagram, the red lines indicate that no direct communication is possible between team members.

The blue lines show the path of automatic re-transmission by the Sentry-U 6160-PR, allowing all team members to communicate regardless of location or coverage.



Outside the situation, the tactical unit's command centre receives situational awareness data to track the unit's GPS positions in real time, over full duplex voice and data channels.



In this closer, more dynamic situation, team members switch to a voice-activated full duplex channel. Individuals are able to communicate in both directions in real-time, ensuring that all operators are in constant contact and 100% aware of the fast-moving operation.