

A Real-Time Smartwatch can Enable More Rapid and effective Response to Fires.

In today's complex response environment, First Responders need more than disconnected radios and fragmented legacy systems - built on incompatible frequencies, formats, and platforms. These lead to slow coordination, create information gaps, and hinder multi-agency operations when every second counts.

By leveraging 'off-the-shelf' devices like PCs, smartphones, tablets, and smartwatches, the LifeRing Responder system creates a secure, shared operational picture that connects together police, fire, EMS, hospitals, and emergency managers in a real time network, including to a Command Center that has visibility and communications with the responders to an emergency.

Each Responder's current location automatically appears on a live map, visible to everyone else connected to the network. As they move, their icons on the map move in near real time also. This creates a constantly updated and shared operational picture once only reserved for military operations.

A firefighter entering a building, a medic navigating debris, an officer securing a perimeter: all can see where others are in real time. The fog of confusion begins to lift and the whole incident/ rescue operation begins synching systematically.

Now with the addition of AGIS' Responder Smart Watch, AGIS has enabled each Responder to view the current situation or the Common Operational Picture (COP) in a hands-free wearable...taking a major leap forward in situational awareness. Furthermore, in contrast to a PC or Smartphone, the Watch also provides real-time health monitoring of the wearer. Biometric health data is continuously monitored by the watch's sensors and along with other data is transmitted to the Server which automatically relays the data to other watch wearers and the Command Center and its PC consoles. Any user on the network can select the wearer's symbol on the COP to access their real time vital signs—including heart rate, SpO₂, and core body temperature—and receives an immediate alert when any measure falls outside the normal physiological range. The Command Center can see all the Responders on the network and a bio-metric readout of the watch users' vital signs color coded according to concern levels.



The wearer also has the option to declare themselves in an emergency with a tap of a finger. This has the added advantage in triage scenarios, where medics arriving at the location already will immediately be aware of the health and location of any injured Responders and can prioritize care.

The wearer's Smartwatch location and the location of all the Smartwatches are displayed on the COP. All can communicate using any one of multiple communications methods, such as one-touch PTT, Encrypted Voice, Chat, and Must-Respond-To Commands.

Wearers can also send and receive chats by either typing them in or simply selecting their talk-to-text option. When an order is critical such as "clear the building", the Incident Command PC can send a Must-Reply-Order to which the Responders must reply with a HAVECO, WILCO or CANTCO response before their watch displays can return to show normal functions. The Incident Commander immediately would know that the lack of a response may indicate that the wearer is in trouble.

The watch can also provide real-time alerts on UAV activity, to do so they simply say Hostile, Drone, Range 300 yards, Bearing 050. The drones' identity and approximate location are thus defined within a set area, helping Responders stay aware of aerial threats. A sound and vibration on the watch alerts the wearer of the presence of a UAV, and then the system draws an azimuth line between themselves and approaching UAVs.

First Responder-specific map symbols can be added to the map by either typing them in or by using the talk-to-text option. These geo-specific map symbols designate the location of an incident such as a Fire, an Active Shooter, Aircraft Crash etc. The watch has a built-in compass that enables the wearer to report the bearing and range to a point of interest based on their current location. The watches software then resolves this data and places the appropriate map symbol at the correct location. Photos, videos and various files of the incident or people of interest and can also be attached to the map symbol and received by any Responder on their Smartwatch.



C.O.P. NEWS

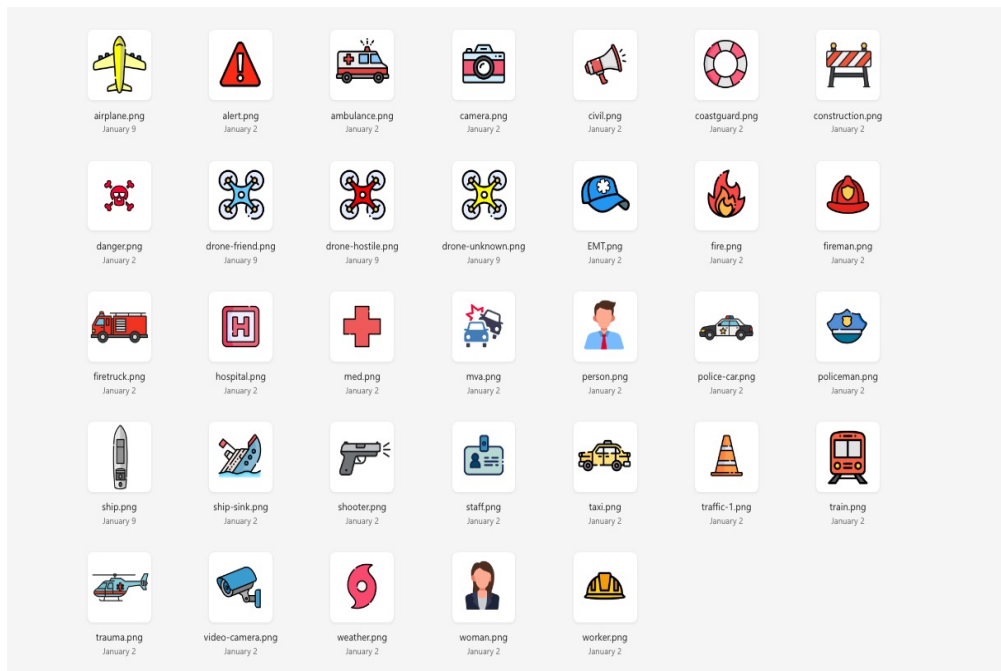
COMMON OPERATIONAL PICTURE

From the PC, the Command Center can view a complete list of all Responders which includes a Profile picture and User Name as well as Pulse, Oxygen Level, Diastolic and Systolic Blood Pressure and Body. Device-specific data is also shown along with one-to-one communications options including PTT, Messaging and Video Calling.

Even more detailed information is displayed by clicking the individual's icon.

Pic	User	Vitals	Last	GPS	Battery	Signal	Actions
	dpcp	-- --	06:49:10	WAIT	100	LAN	
	Reed	73 97 99% 104/40	06:45:28	OFF	66	LAN	
	Mahmoud	57 95 96% 139/101	06:49:08	SYNC	71	LAN	
	MSCQ4	64 97 92% 63/73	06:49:04	SYNC	61	LAN	
	MSCQ	-- --	06:49:20	WAIT	100	LAN	
	JMA3	-- --	06:48:54	COAST	100	LAN	
	JMA1	-- --	06:49:04	WAIT	100	LAN	

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