

## [Headline]

**Protecting people and property from devastation.**

## [Subhead]

**Verizon and Golden-i create smart mobile solutions for firefighters and public safety.**

## [Body copy]

Fire is unpredictable. What a firefighter knows about a blaze before entering a burning building can change in a flash. From collapsing floors and walls, to low visibility, lack of oxygen and overexposure to smoke, they face unknown dangers every second.

Lack of situational awareness in these rapidly escalating situations puts emergency workers at significant risk of injury and even death. An estimated 81,000 firefighters are hurt on the job each year in the U.S.<sup>1</sup> But what if fire crews had a clear, minute-by-minute view into the scene during the entire operation? Together, Verizon and Kopin have developed the technology that empowers them to do just that.

“The application of Golden-i to firefighters and public safety was really seen by Verizon,” says Jeffrey Jacobsen, Golden-i Program Manager for Kopin. “Verizon looked at the technology and said ‘this could save people and bring them home safer’.”

Golden-i is a lightweight mobile computing and communications headset that revolutionizes the way first responders interact with their virtually-enhanced surroundings. Users gain a full PC experience along with the ability to control up to six devices, systems, or networks at a time. Drawing on the latest in machine to machine (M2M) and mobile technologies, the Golden-i wireless headset quickly connects command centers and firefighting teams to the data they need, whenever they need it—all over the lightning-fast Verizon 4G LTE network.

“We realized right away that the Golden-i solution was a great platform that could benefit by Verizon’s connectivity through our 4G LTE network,” Ted Stecko, Business Manager of the Verizon Innovation Center affirms.

Fire sites are already dangerous enough, without intercom and radio wires getting in the way. Voice and motion controls in the headset allow hands-free access, while wireless technology offers greater mobility and situational awareness. Noise-cancelling capabilities ensure clear communications above the roar of engines and blaring sirens.

Many firefighters get injured by slipping, tripping or falling through floors. Just being able to quickly scan a floor plan and see if there's a basement could change which way they enter a

burning building. With Golden-i, first responders can view high-resolution digital maps and floor plans, for safer navigation in dark, smoky and unstable areas.

“Infrared technology allows firefighters to see in environments like dense smoke. It allows them to look past or through a table or a wall to notice that there’s somebody or something over there they should pay attention to,” Jacobsen states.

Sensors in the headsets allow commanders to monitor crews and their surroundings—from the temperature and carbon dioxide levels in a specific area, to the pulse, respiration rate and oxygen levels of each firefighter. Streaming video makes it easier to reach everyone in the force with new information, while a built-in GPS and a digital compass help rescuers locate survivors or fellow team members quickly.

“What the Verizon network did was bring the Holy Grail of wireless connectivity to a device that would allow people to be able to share and have spontaneous interface and communication,” states Jacobsen. “The Verizon 4G LTE network brought communication performance that was not achievable any other way.”

#### **[Pullquote]**

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— Jeffrey Jacobsen, Golden-i Program Manager for Kopin

#### **[Stats]**

An estimated 81,070 firefighter injuries occur annually in the United States.<sup>1</sup>

49 percent of firefighter injuries happen on the fireground, and 6 percent occur while responding to or returning from a fire incident.<sup>1</sup>

The leading causes of minor injuries for firefighters were exposure to something (6,500, or 23%), while the leading causes for moderate and severe injuries were falling, slipping, or tripping (3,000 or 28%).<sup>2</sup>

#### **[CTA]**

Learn more at [www.verizonwireless.com/](http://www.verizonwireless.com/)

## [Sidebar 1]

### Tackling the world's toughest challenges

#### Powerful Answers

We believe that the world's biggest challenges deserve even bigger solutions. So at Verizon, we meet every day with one question: "What do we want to build next?" With the most advanced tools, there's always more we can do with the power of technology.

## [Sidebar 2]

### Verizon 4G LTE—Speed, coverage and security

America's fastest 4G network delivers higher bandwidth, better security and faster access to more of today's data-heavy applications.

Verizon 4G LTE also delivers superior built-in encryption not found on 3G or public Wi-Fi networks. That means private medical data is better protected than ever.

- Work confidently on 4G LTE devices with improved security and usability.
- Run demanding applications, worry-free.
- Access sensitive information on the go without compromising confidentiality.

## [Footnotes]

<sup>1</sup> U.S. Fire Administration. *Fire-Related Firefighter Injuries Report*. 22 February 2011.

<http://www.usfa.fema.gov/media/press/2011releases/022211.shtm>

<sup>2</sup> National Fire Protection Association. *Patterns of Firefighter Fireground Injuries*. January 2012.

[http://www.nfpa.org/itemDetail.asp?categoryID=2377&itemID=55182&cookie\\_test=1](http://www.nfpa.org/itemDetail.asp?categoryID=2377&itemID=55182&cookie_test=1)