



Ubiq demonstrates security of mission critical data with Verizon

INDUSTRY:

Telecommunications

LOCATIONS:

North America

COMPANY SIZE:

161,000 employees

PRODUCTS:

Wireless phone services
Wireless home phone
Mobile Wi-Fi and broadband

UBIQ SOLUTION:

Data Security SDK

Benefits

- Faster response times to support mission critical crisis situations
- Safeguard critical communications by accelerated protected data transmissions and secure live streaming
- Able to secure live HD 1080p video with no loss and unnoticeable/negligible latency
- Supports multiple device platforms – Windows tablets, IoT camera-equipped robots and drones
- Software is lightweight enough to be installed on even the smallest IoT devices
- Secure real-time Android data transmission capabilities designed to work with 4GLTE and 5G networks
- Deliver strong data protection at the fastest speeds
- Seamless security for data-at-rest and data-in-transit



The Company

Verizon Communications Inc. (NYSE,Nasdaq: VZ), headquartered in New York City, has a diverse workforce of 161,000 and generated nearly \$126 billion in 2016 revenues. Verizon operates America's most reliable wireless network, with 113.9 million retail connections nationwide. The company also provides communications and entertainment services over mobile broadband and the nation's premier all-fiber network and delivers integrated business solutions to customers worldwide.

The Situation

Always on the lookout for innovative technologies, Verizon was introduced to Ubiq to explore potential synergies and applications for their technology. Verizon's Asymmetric Solutions Division, who manage technologies for natural disaster and emergency situations were keen to

look at bolstering their IoT and real-time data streaming capabilities for field operation device communications. This would also be showcased at their annual Operation Convergent Response (OCR) event, an immersive learning experience for first responders that shows them how emerging technology can be used to help them save lives.

Verizon's Asymmetric Solutions Division set Ubiq a task to demonstrate their unique encryption-based application to secure data-at-rest (K9s, drones, robots) and also transit of their scenario data from the field, including real-time video and data exchanges, and tactical location and deployment information. This secure transmission would also need to work across multiple forms of communications including cellular, satellite and wireless up to a secure command-and-control center.



How Ubiq Helped

Unlike today's encryption that can bog down performance, Ubiq's proprietary technology secures the data by rendering it useless if breached. It also improves speed and maximizes performance, allowing users to securely stream end-to-end high-definition video with no visible latency.

Verizon installed Ubiq software on IoT sensor devices mounted on tactical K9s and robots. The testing showed how the software enabled HD video streaming in real time, from the devices to the command and control center, for the first responders taking part in the simulations.

Whether streaming secure HD video from a crisis simulation to assess damage or receiving floor plans to find missing persons or safeguard volatile gas lines, Ubiq was able to demonstrate accelerated protected data transmission in these emergency situations to ensure sensitive data gets to its intended destination and the first-responder decision makers who need it as quickly as possible.

In the earthquake and active shooter simulations, Ubiq software helped first responders assess damage and convey critical information by streaming

AES256-bit secured HD video and data in real time from Android mobile phones, from ruggedized Windows tablets and from IoT camera-equipped robots and drones to a command-and-control center. Scenario emergency responders using Ubiq in hazardous settings can also rely on its extremely fast point-to-point data transfer to make decisions when time is of the essence.

If field devices were captured and interrogated for data, Ubiq encryption technology ensured that any data recovered by the wrong hands would be impossible to decrypt.

A Look Ahead

Ubiq and Verizon's strategic partnership continues to grow, with Verizon's software-defined perimeter (SDP) soon to include Ubiq security technology. Ubiq is designed to interplay with many different protocols including Verizon's network services, and it can overlay with other encryptions, including transmission encryptions. With Ubiq innovations extending, enhancing, and speeding Verizon SDP, there are opportunities to better safeguard data as new product solutions are created ranging from secure surveillance and entertainment live streaming, to turnkey offerings for emergency responders and smart cities, smartphones, and more.

Every second counts, especially in natural disaster and emergency situations, and UBIQ is a proven partner to deliver strong data protection at the fast speeds that our public safety, law enforcement and military teams require.

Verizon Asymmetrical Solutions Architect Jeffrey Schweitzer.

About UBIQ

Ubiq, the trailblazer in digital data security, has developed a multi-patented, ultra-low latency and low impact solution that secures any type of data, on any device, anywhere, delivering on the promise of a "fast and safe connected world." Our extremely lightweight, 100% software stack can be directly integrated into existing applications, IoT devices or installed on laptops and servers to secure critical data. We leverage a proprietary data-centric security methodology that renders stolen data useless, when (not if!) it's stolen by the bad guys or unknowingly compromised. Ubiq works across public and private sector organizations to ensure all their data is secured in a transparent manner while eliminating the vast amount of management complexity of traditional data security solutions (encryption has been hard!). We have presence across North America, Asia Pacific and Japan. For more information, visit www.ubiqsecurity.com