



November 2019 Newsletter

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What Public Safety Can Expect from 5G Communications

5G communications are coming to your PSAP. The next questions probably are “when and what will 5G mean to our current technology and operations?” In the United States 5G is being rolled out nationwide. Generally speaking Verizon, AT&T, Sprint and T-Mobile started the buildout in 2018. Each of the carriers are currently selling commercial 5G compatible phones and other devices. 5G offerings to public safety agencies for mobile data, wireless voice communications, for example are also being offered. The benefits from 5G communications to PSAPs, police, fire and EMS departments has been written about in industry magazines and spoken to during numerous conferences and webinars. Below is a brief highlight of the main benefits.

Faster Transmission of Large Amounts of Data—Expanded wireless bandwidth communications will mean up to 20 gigabits a second download and up to 10 GB a second upload. The increased speed will mean that managing the uploading and downloading of body worn camera data or surveillance camera data, or other big data applications such as drone or Smart City information, can be transmitted faster. Faster speeds will potentially allow for faster response and could increase the use of video by police and PSAPs. The increased use of video in PSAPs and other public safety agencies will undoubtedly require operational changes to video management and its use within the departments. The transmission of video between PSAPs and mobile data devices will be faster and very likely lead to expanded use of video in the communication of responses.

A “Connected Ambulance” can serve as a connection node from a specially equipped ambulance to communicate with hospital emergency department staff in real-time streaming while in transit. 5G can enable the realization of this model.

The effect of this additional component within public safety communications will mean that the mobile data devices must be compatible with 5G. This will mean that departments will need to start planning and budgeting for new devices. In addition, the use of drone-based video will be available faster to incident commanders, real time crime centers, and PSAPs. One concern that has been identified with the expanded use of video

within the PSAP is the potential of the psychological impact on telecom-unicators viewing of an incident in real-time. 5G will also mean extremely low latencies in the data transmission process. Latency refers to a computer network’s ability to process a very high volume of data messages very quickly, with minimal delay.

Public safety response is time critical. During an active incident that involves a building collapse, an active shooter, or a search and rescue situation, the ability to quickly access video and data related to the scene, such as building drawings or mug shots, is extremely important. Reliable and fast access to the data will be more important than ever. 5G has the potential for providing the means for

Winbourne Consulting offers a full range of public safety services, including strategic planning, systems integration, specifications development, solution acquisition, and implementation project management and quality assurance.

Our Areas of

Expertise encompass all segments of Public Safety, including:

- PSAP Consolidation
- NG911 Strategic Planning and Implementation
- Public Safety Communications and Telephony
- Public Safety Applications and Systems Requirements and Implementation Support
- Mission Critical Facilities Design and Fit-Out
- 311 Call Centers and Implementation
- PSAP Staffing and Operations Analysis

improving emergency medical response, especially in rural areas. The EMTs and Paramedics in a "Connected Ambulance" will be able to use a combination of AI-based wearables utilizing 5G communications to communicate with the staff at the hospital, and to reduce the impact of vehicular traffic while in transit to the emergency room from an incident.

As the 5G networks continue to roll out, public safety will find many opportunities to take advantage of 5G's capabilities in the next 2-3 years. As public safety increases its use of drones, body worn cameras, artificial intelligence, and other forms of Big Data, these new technologies, ranging from drones to connected ambulances, could help emergency workers deal with fires, hurricanes, bombings, active shootings and medical emergencies. Winbourne Consulting can provide advice to your agency on preparing for 5G and its potential impact on your operations and technology base. Winbourne Consulting can be contacted at info@w-llc.com.

Winbourne Happenings



On November 20, 2019 a milestone was reached in the National Capital Region - the first PSAP cutover to what will be a shared interjurisdictional VESTA NG911 call handling system shared between Arlington County, VA and the City of Alexandria, VA. In the next few weeks a total of four PSAPS (two primary and two backups) will be cutover to the new system. As a shared system, either jurisdiction will have the ability to login and operate from any location on the WAN connecting the four PSAPs, or even to answer the other jurisdiction's calls if required, resulting in maximum diversity and resiliency. **Winbourne Consulting supported this effort from the beginning - including drafting the Memorandum of Understanding between the two jurisdictions, developing the RFP, and managing the implementation.**

Public Safety News



NENA-Initiated International Alliance Will Work to Accelerate NG Emergency Communications Globally

A new pact among public-safety organizations in the United States, Canada, the United Kingdom, and Europe will accelerate innovation in the three-digit emergency-communications systems that serve almost 1 billion citizens.

To read the complete article visit: <https://www.nena.org/news/477525/NENA-Initiated-International-Alliance-Will-Work-to-Accelerate-NG-Emergency-Communications-Globally.htm>



FCC Recommends Making 988 as National Suicide Hotline Telephone Number

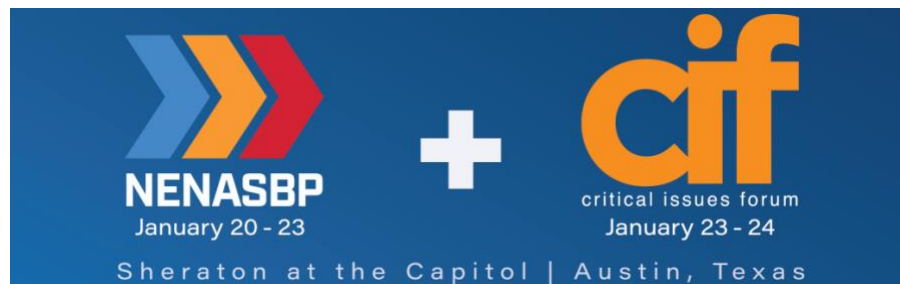
Ajit Pai, the FCC's chairman has recommended shortening the hotline's current 10-digit number, 800-273-8255, to a three-digit number 988. This recommendation responds to federal legislation that was passed last year calling for improvements to the system.

Chairman Pai stated "Our team found that a three-digit number would make it easier for Americans in crisis to reach someone who could help. If we can stand up 988 nationwide as a way to access suicide prevention services, we believe it could save lives."

The National Suicide Prevention Lifeline. 1-800-273-8255 was initiated in 2005 by the federal government. More than 2.2 million people called the hotline in 2018. The National Suicide Prevention Lifeline network is composed of more than 160 local crisis centers. These centers are staffed by qualified, trained counselors.

Our Clients include city, county, state, and federal agencies located throughout the United States and the world, as well as countries in Europe, the Middle East, Asia, the Caribbean, and South America.

Industry Events



Learn, Collaborate, & Contribute!

#NENASBP is a conference unlike any other. It is an interactive, informative, attendee-driven event where you not only learn about the standards that are spurring the development and implementation of NG9-1-1 technology and operations best practices, but also create the guidelines, resources, and documents that enable NG services, systems, and PSAPs to reach their full potential.

For more info visit: <https://www.nena.org/page/sbp>



February 12-15, 2020
Grand Hyatt, Washington DC

About #NENAGTW

9-1-1 Goes to Washington brings together hundreds of 9-1-1 professionals from around the country with policy leaders in our nation's capital to explore and discuss today's most pressing 9-1-1 and emergency communications issues. 9-1-1 Goes to Washington is the only event where you can learn about the policy challenges facing public safety and take immediate action to address them through dialog with your elected and appointed officials.

For more info visit: <https://www.nena.org/page/gtw>

Articles of Interest



Emergency Communications: Flintstones and Jetsons On One Platform

A disaster preparedness exercise in Redmond, Wash., tested a platform that can automatically switch between cellular and satellite connectivity to give first responders and other essential personnel uninterrupted internet access.

The Redmond Emergency Management Division led the Cascadia Rising Solutions exercise on Oct. 18 and 19 to focus on readiness should the region experience a major earthquake. The idea was to address gaps in communication, transportation and situational awareness that surfaced during Cascadia Rising 2016, a Federal Emergency Management Agency-sponsored exercise. The ultimate goal is to fix those issues ahead of the next drill, slated for 2022.

To read the full article visit: <https://gcn.com/articles/2019/11/26/high-low-tech-emergency-communications.aspx>



FCC Extends Wireless Emergency Alert Deadline

The FCC extended the compliance deadline for the wireless emergency alert (WEA) enhancements until Dec. 13.

The Department of Homeland Security's Federal Emergency Management Agency (FEMA), which administers the Integrated Public Alert and Warning System (IPAWS) infrastructure through which all alerts are authenticated, validated, and delivered said it would not be ready to support the enhancements that were scheduled to become effective May 1 by that date. IPAWS became available Nov. 15 for formal testing for support of the required WEA enhancements that became effective May 1 and of enhanced WEA geotargeting that is scheduled to become effective Nov. 30.

Visit: <https://www.rrmediagroup.com/News/NewsDetails/NewsID/19007> to read the complete article



Congress Moving Closer Toward Cybersecurity Aid to State And Local Governments

The U.S. Senate on Thursday (November 21) unanimously passed a bill creating new grants and other programs designed to help states and localities with their cybersecurity efforts, potentially advancing efforts to make more federal

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resources available for lower rungs of government that have been struggling to fend off a seemingly open-ended series of ransomware attacks and other threats.

The State and Local Government Cybersecurity Act, introduced by Sens. Gary Peters, D-Mich., and Rob Portman, R-Ohio, allows the National Cybersecurity and Communications Integration Center — the federal government's hub for sharing information about cyberthreats to the nation's critical infrastructure — to provide more tools to lower levels of government, authorize the sharing of more classified information with chief information officers and other top state and local officials, and create more training programs for IT workers.

To read the complete article visit: <https://statescoop.com/congress-moving-closer-toward-cybersecurity-aid-to-state-and-local-governments/>



FCC Adopts New Rules For Z-axis Vertical Location of Wireless 911 Callers, But Critics Question Their Practical Use

FCC commissioners yesterday (Nov 22) voted to approve rules requiring wireless carriers to deliver 911 callers' vertical location that is accurate within three meters in most cases, but critics expressed concern that the location information will not be provided in a manner that is useful to public safety.

Under the new order, vertical—or Z-axis—80% of indoor wireless 911 calls would have to include vertical-location, or Z-axis, information that is accurate within plus or minus 3 meters, relative to the device's location. Carriers must meet this requirement in the top 25 market by April 3, 2021, and in the top 50 markets by April 3, 2023, according to an FCC fact sheet on the subject.

The full article can be viewed at: <https://urgentcomm.com/2019/11/23/fcc-adopts-new-rules-for-z-axis-vertical-location-of-wireless-911-callers-but-critics-question-their-practical-use/>

**We Are Interested in Your Thoughts on the Above Topics.
To share them with us, please:**

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Or

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