

Next Generation 9-1-1

Built to Standards. Coming to Market.



Emergent Communications™ now offers the first NENA i3 Next Generation Internet Protocol (IP) standards based 9-1-1 emergency communications system. The system upgrades a 30-year old proprietary system to the Digital Age—giving emergency services professionals the communications tools and technology they need to best perform critical, life saving tasks.

9-1-1 Stretched to the Limit

The existing 9-1-1 system—while a success story for more than 30 years—has been stretched to its limit with the growing adoption of 21st century communications. Wireless and IP-based communications devices along with multimedia capabilities like text, video and images are being used at an ever increasing rate.

As a result, through cumbersome adaptations, today's 9-1-1 is being asked to perform functions it was not designed to handle. In short, the nation's 9-1-1 systems are in need of a significant overhaul.

Emergent Communications and NG 9-1-1

Emergent offers an Internet Protocol (IP) standards based 9-1-1 emergency communications and dispatch system. Commonly referred to as Next Generation 9-1-1 (NG 9-1-1), the Emergent platform allows for revolutionary, "IP based" access and services for emergency response professionals and provides 9-1-1 connectivity for VoIP, wireless and traditional wireline communication devices.

Emergent's system is entirely SIP based and runs on industry standard Linux hardware and supports multimedia communications (voice, video, mapping, text, etc.) The software system is based on research and development conducted at Columbia University's Internet Realtime Laboratory (IRT Lab) under the direction of Prof. Henning Schulzrinne.

NEXT GENERATION 9-1-1 NEEDS	Today's Solutions	Emergent 9-1-1
IP to the PSAP	✓	✓
Support for Voice, Text and Video communications	-	✓
Transfer of notes, maps, pictures and video between all IP-enabled agencies, responders and supporters	-	✓
Dynamic and real-time call overflow between PSAPs	-	✓
Conference Call features with all relevant data available to other PSAPs and responders	-	✓
Secure, remote access in the case of a disaster	-	✓
Reducing the reliance on legacy platforms and moving to more open standards technologies	-	✓
Built to meet industry standards for Next-Gen 9-1-1	-	✓
Ready for testing today	-	✓

Comprehensive Solution for State or Countywide Emergency Services Networks

Emergent's NG 9-1-1 system includes software for the regional Public Safety Operations Center (PSOC) together with the local PSAP software for conferencing, media and call taker user interfaces required for true NG 9-1-1 services.

- **SIP proxy server** for call routing
- **LoST server – Location-to-Service Translation**
Using the emergency caller's location and type of service request, LoST determines the appropriate destination (i.e. responder) and returns the PSAP address.
- **SIP conference server** for bridging multiple parties such as caller, the emergency call taker, a dispatcher or emergency responder
- **SIP media server** for recording conversations
- **SIP user agent** for call takers

Many city and regional PSAPs can share regional Public Safety Operations Centers (PSOC) for routing all emergency calls to the appropriate PSAP.

Benefits of Emergent NG 9-1-1

Emergent Communications Next Generation 9-1-1 offers:

- Complete IP Based NG Solution that supports current and future call and message types
- Quicker and more accurate information delivery to emergency responders
- Better and more useful forms of information (data, images, and video)
- More flexible, secure and robust PSAP operations allowing for greater interoperability between PSAPs
- Lower public capital expenditures and operating costs for emergency communication services
- NENA Future Path Plan Compliant

About Emergent Communications

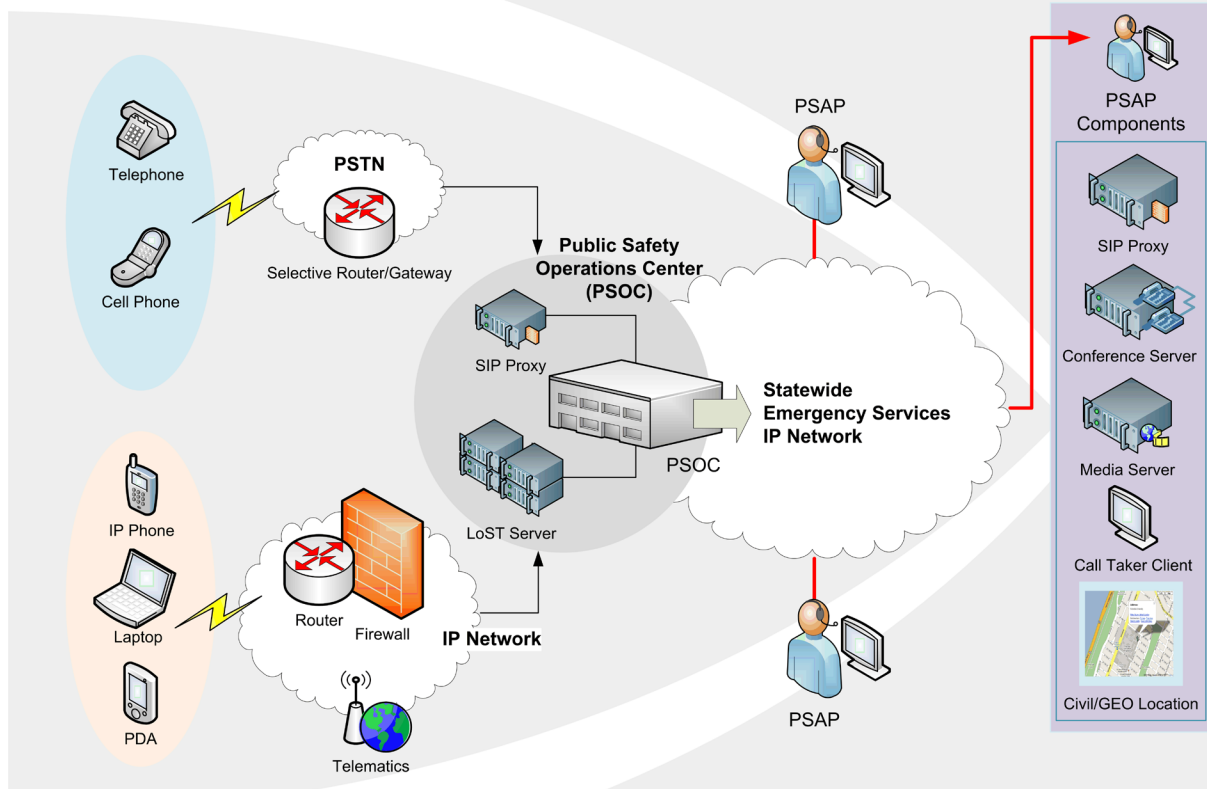
Emergent was formed to commercialize technology being developed at Columbia University's Computer Science Department for the Voice over Internet Protocol (VoIP) and Next Generation 9-1-1 marketplace.

Ready for Testing Now

Unlike other platforms, Emergent's IP-based platform is part of the first, and thus far, only technology platform to undergo formal NENA technical review for compliance with its Future Path Plan (FPP).

The prototype system is being tested in 5 PSAP locations across the United States in the first half of 2008.

Emergent Communications - Next Generation 9-1-1



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