



Solacom Emergency Services IP Network

The Public Safety landscape is changing, transitioning from circuit switched technology to IP networks and Next Generation 9-1-1. As described by NENA, the next-generation system will be a “network of networks” providing connectivity between PSAPs within logical geographic areas to other networks regionally and nationally. These changes will allow for enhanced call routing and delivery, as well as the ability to reroute calls to any addressable PSAP that is served by an Emergency Services IP network (ESInet).

But even as new standards are being defined and developed, many PSAPs are finding themselves limited by equipment and networks that are incapable of providing a cost effective evolution to NG9-1-1.

Solacom has proven solutions that are already providing NG9-1-1 networks and services today, and can be your technology partner for a smooth transition to NG9-1-1.

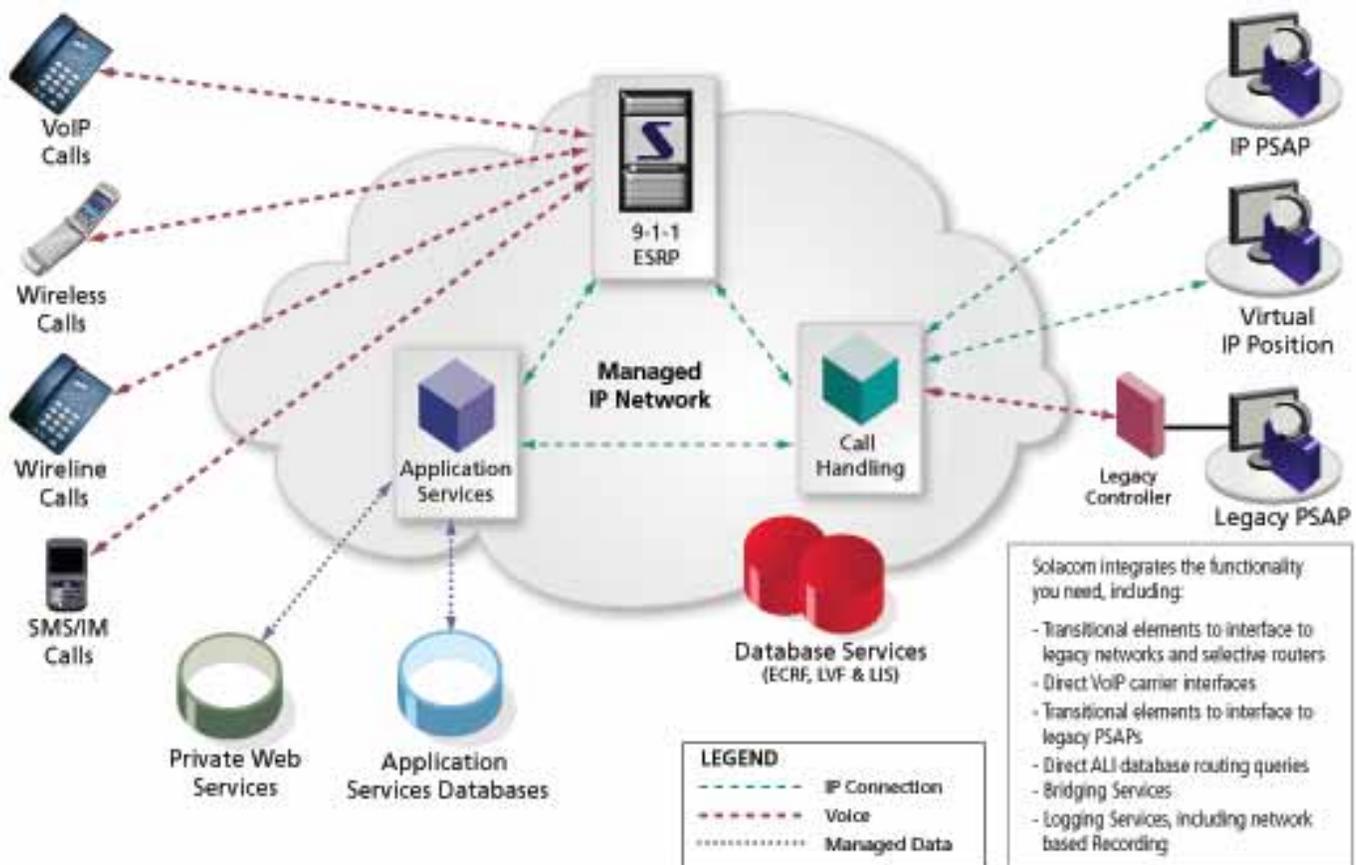
A platform designed for Next Generation 9-1-1 networks

No matter how far along the path you are to NG9-1-1, a Solacom ESInet will give you more control over how you build and manage your network, with greater flexibility and the freedom to choose how you operate. A Solacom ESInet is a true next generation solution, offering more than simply carrying voice over an IP network versus the circuit switched network in use today.

It is a solution designed and built for IP-based call routing, IP-based CPE and associated database systems, and for converging traditional voice and data into the packet switched network while at the same time providing legacy ingress and egress to the system from authorized carriers, PSAPs and other public safety agencies.

Another important distinction from other industry solutions, *we own our call control technology and we developed it specifically for 9-1-1 communications*; it is not based on 'open source' so you won't be held captive waiting on an unknown timetable to resolve problems or evolve changes.

Solacom ESInet – a flexible solution for high performance NG9-1-1 networks



Ideal for hosting one or multiple PSAPs networked together

Solacom technology lets you build an ESInet with the flexibility to host a single PSAP or multiple PSAPs using a single fault tolerant design versus having separate controllers at every PSAP location. This type of PSAP design provides initial cost savings, and puts you in control of alternate routing and backup PSAP scenarios. Additional PSAPs can be added later on with a minimal amount of equipment, or existing PSAPs can be consolidated if desired in the future.

You can leverage greater economies of scale for better return on your investment. You can also offer new and improved levels of service to PSAPs, including resilient network designs such as dual-mated tandem, or regional disaster recovery backup PSAPs, as well as hosted services like Managed Services or Network IP Recording.

Solacom ESInet increases your level of interoperability, eliminating issues with Selective Router boundary transfers and Enhanced Services such as 3-1-1.

Migration without need to rip and replace

Solacom's Emergency Services Platform (ESP) consists of components and software modules that allow you to migrate to next-generation in a logical and cost effective manner, according to your timetable and requirements. For example, you can choose to migrate to an IP enabled network and IP selective routing while maintaining support for existing legacy CPE. Solacom's complete IP-based platform also makes it easier to set up remote or redundant sites.

As standards continue to be developed by NENA and other governing bodies, Solacom's ESP is designed to allow you to take full advantage of the

i3 vision as it becomes commercially available. The core Solacom architecture remains in place while plug-in components and software modules provide an intelligent means to meet the demands of the future.

Next generation performance

The Solacom NG9-1-1 solution is deployed with a redundant core architecture, built for Public Safety Grade IP Networks and geographically diverse call processing platforms. This ensures continuous system operation for virtually any contingency as well as absorbing the impact of a major network outage or a catastrophic event to one of the locations.

The addition of virtual PSAPs or 'hot seats' greatly increases the network flexibility, with the ability to rapidly deploy PSAP positions in response to situations that require additional call taking capacity. Through secure VPN access to the core system, Solacom positions are able to connect from virtually anywhere using a PC and a USB headset – and have access to all resources that are available at their primary location through their virtual operator position.

Solacom ESP includes a fully integrated IP PBX for administrative requirements as needed. The IP network design can also be used by other applications that are complementary to the processing of 9-1-1 calls, providing enriched data to the PSAPs, such as:

- automatic crash notification
- incident management/CAD information
- GIS data distribution
- IP radio
- database access to related public safety and/or criminal databases
- integration with sensor data

Field proven, time and again

For almost 30 years, we have been engineering rugged systems for critical communications and situations when lives are literally on the line. Solacom technology is being used in over 26 countries – from dense urban environments to sprawling counties. You'll also find our systems at work in special applications, like NASA's shuttle landing facility, and in the harshest extremes including Middle East deserts and Antarctic ice fields.

At the end of the day, it's all about helping you build networks that save lives. We're committed to being your partner in critical communications, and to developing the industry's best Emergency Services IP Networks.

Contact us today to explore how Solacom ESP can help you create your Next Generation network of networks.



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