

## The X-Solution™

The X-Solution™ is an integrated product suite comprised of five core components:

**Call Handling** – xT911™, xSwitch™

**ESInet Solutions** – xLoST Server™, xSR™

**Mapping** – xTrakker™

**ALI Database** – xALI DBMS™

**GIS Database** – x9GIS™, x9Collector™

## Your Established Partner

TeleCommunication Systems, Inc. (TCS) (NASDAQ: TSYS) is a world leader in highly reliable and secure mobile communication technology. TCS infrastructure forms the foundation for market-leading solutions in E9-1-1, text messaging, commercial location, and deployable wireless communications. TCS is at the forefront of new mobile cloud computing services, providing wireless applications for navigation, hyper-local search, asset tracking, social applications, and telematics. Millions of consumers around the world use TCS wireless apps as a fundamental part of their daily lives. Government agencies utilize TCS' cybersecurity expertise, professional services, and highly secure deployable satellite solutions for mission-critical communications. Headquartered in Annapolis, Maryland, TCS maintains technical, service, and sales offices around the world. To learn more about emerging and innovative wireless technologies, visit [www.telecomsys.com](http://www.telecomsys.com).

TeleCommunication Systems, Inc.  
275 West Street  
Annapolis, MD 21401 USA  
1.800.307.9491  
[www.telecomsys.com](http://www.telecomsys.com)

[www.telecomsys.com](http://www.telecomsys.com)  
1.800.307.9491

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**Call today to learn more about  
your NG9-1-1 options from  
TeleCommunication Systems.  
1.800.307.9491**

 @TCS\_NG911

 Next Generation 9-1-1 Resources for the PSAP

 [www.911fromTCS.com](http://www.911fromTCS.com)

 1.800.557.5869

 [sales@telecomsys.com](mailto:sales@telecomsys.com)

# The X-Solution™

A TOTAL NG9-1-1 Solution



*Fluid data sharing and faster response  
times help you save lives and property.*





## Your Challenges

More information is hitting your agency, which means more information to manage and distribute across your 9-1-1 network. It would help if your ALI and GIS database could validate against each other. You also need a 9-1-1 system that can operate over the emerging Emergency Services IP Network (ESInet) aligned with NENA's i3 standards. Data, management, distribution and speed—they are all things critical to today's 9-1-1 team. Your agency's challenges include:

- Sharing data across multiple databases and applications
- Building a system that solves current challenges and is ready for the demands of NG9-1-1
- Responding to a rapidly evolving technological landscape: IP, proliferation of mobile phones, VoIP devices and IM
- Processing new kinds of information and data at the PSAP – text\*, digital imagery and video
- Connecting PSAPs, agencies and all 9-1-1 stakeholders over a secure universal network at the county, state and inter-state level
- Locating nomadic 9-1-1 callers
- Increasing situational awareness at the PSAP

*\*TCS offers a platform on which to process text messaging for when the wireless industry supports an i3 oriented delivery mechanism.*

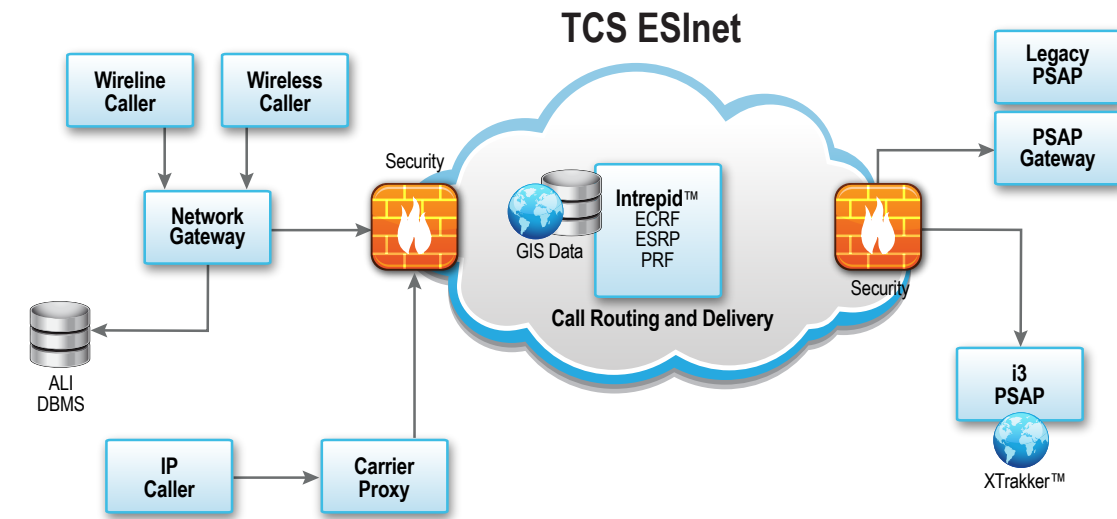
*\*\* The X-Solution™ aligns with NENA's i3 standards that provision for an ESInet that will connect PSAP to PSAP at the local, county, state or inter-state level.*

## Our NG9-1-1 Solution

### The X-Solution™

Two powerful technologies—IP and GIS—combine to transform the PSAP into a feature-rich, map-centric™ operation. Combine this with ALI and GIS databases validating against each other, sharing information over an i3 aligned ESInet, and your agency is now ready to handle all 9-1-1 calls from today's technology-based sources—IM, wireless and video. The X-Solution™ ensures your agency meets today's needs, is Next Generation 9-1-1 ready, meeting the challenges with these features:

- True integration and validation between the ALI and GIS databases and on-the-fly updates
- A software-based solution, engineered to efficiently manage today's tasks and equally equipped for NG9-1-1
- X-Solution™ enables processing of land-line phone systems, wireless (Phase I and Phase II) phones and VoIP devices directly from the internet
- X-Solution's™ xSwitch™ can process graphics, digital pictures or streaming video, and can adapt to future technologies
- Deployed on standard Windows® servers connected over a secure ESInet that can connect to other ESInets as needed\*\*
- GIS at the core enables accurate and rapid location of wireless and nomadic VoIP calls including IM



*TCS' ESInet Solutions include core components needed for the delivery and location of landline, wireless, and IP-based calls.*

- Next Generation features such as the xSR™, xLoST Server™ and Spatial ACD™ enhance situational awareness at the PSAP:
- xSR™, a replacement for legacy Selective Routers, routes calls based on geospatial data, assuring that all call types can be relayed to the appropriate PSAP
- xLoST Server™ enables location of IP-based communications and provides the call taker with the most appropriate Emergency Service for dispatch
- Spatial ACD™ enables routing of a call to a specific call taker based on the call's geographic location (x,y routing)

The X-Solution's™ ESInet provides the infrastructure and universal network for fluid data sharing and management within your agency, as well as outside between other 9-1-1 agencies or stakeholders. NENA's i3 requirements call for PSAPs to be part of a "network of networks" enabling interoperability between emergency agencies. With the X-Solution™ deployed over TCS' ESInet, agencies have complete command and control over mission critical information.

All X-Solution™ components can be deployed anywhere on the ESInet, yet all mission critical information can be relayed where and when needed to the call taker position affording true situational awareness and rapid response.

<p><b>xSR™ (microDATA's Next Generation selective router) routes the call to the correct PSAP, no matter what call type: IM, VoIP, wireless, or landline.</b></p>	<p><b>xT911™ with the xTrakker™ map locates the call, while the xLoST Server™ relays the determined emergency service for dispatch.</b></p>	<p><b>Emergency services are dispatched to the scene with all call information and location.</b></p>	<p><b>Accurate and timely information ensures that lives are saved.</b></p>
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\*Dramatization only. Actual times may vary.