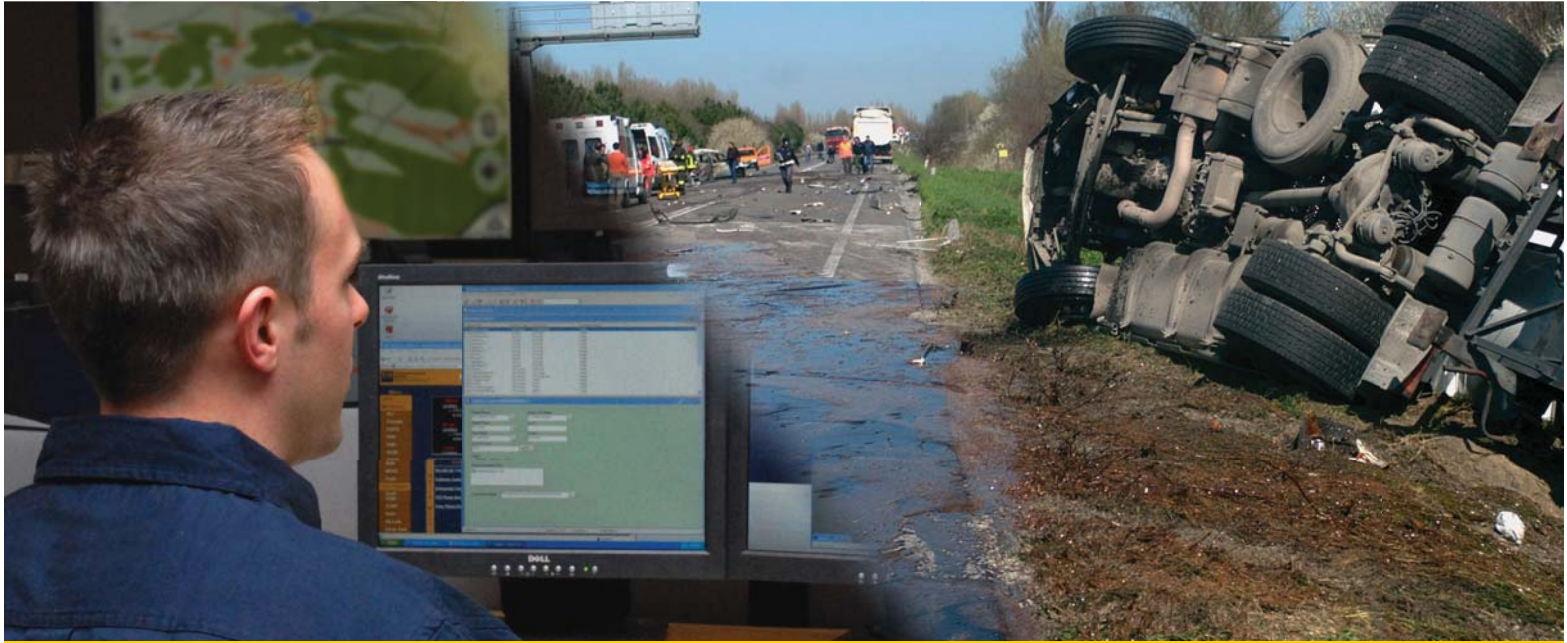


RavE911™



Real Time Address Validation Engine 911

Accurate and unambiguous civic addresses or locations for any subscriber—whether VoIP, wireless, or landline—are essential to Enhanced 9-1-1 systems. Currently, Public Safety Answering Points (PSAPs) validate with a locally managed dataset known as a Master Street Address Guide (MSAG).

TeleCommunication Systems, Inc. (TCS) offers RAVE911™ (Real-Time Address Validation Engine 911) to unify nationwide MSAG data, providing VoIP, cable, and landline carriers with inexpensive, real-time, automatic, and highly accurate validation.

Key Features and Benefits

The RAVE911 system is scalable, provides accurate real-time responses, increases order velocity by an order of magnitude, and is operationally inexpensive. The major benefits to the customer are:

- Inexpensive - The cost for automatic processing is significantly less than a manual method of verification, approximately pennies per validation.
- Scalable - Large quantities of records can be matched and verified in real-time. It can process thousands of records every hour.
- Accurate - Provides assurance that the civic address is correct and matches the MSAG.
- MSAG validation - Verified matches can be utilized for billing and mailing with minimal misroutes.

See TCS' complete line of products and services at www.telecomsys.com.

Your Established Partner

TeleCommunication Systems, Inc. (TCS) (NASDAQ: TSYS) is a world leader in high availability 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. Federal government agencies depend on TCS' cyber security expertise, professional services, and highly secure deployable satellite solutions for mission-critical communications. Headquartered in Annapolis, MD, TCS maintains technical, service and sales offices around the world. To learn more about emerging and innovative wireless technologies, visit www.telecomsys.com.

TeleCommunication Systems, Inc.
275 West Street
Annapolis, MD 21401 USA
Toll Free: 1.888.728.8797
Outside US: +1.410.263.7616
www.telecomsys.com

Enabling Convergent Technologies® and SwiftLink® are registered trademarks of TCS. All other trademarks are the property of their respective companies. Information subject to change without notice. | NasdaqGM: TSYS | 100113



An Incomparable Approach

The RAVE911 system uses an innovative method that incorporates three techniques to attain, match, and validate data:

- **Automatic validation – RAVE911** automatically validates a civic address or associates a civic address with the MSAG data contained in the TCS Validation Database. Records that fail to match are immediately processed by semi-automatic validation.
- **Semi-Automatic validation – The RAVE911 system** returns MSAG-compliant alternatives for records that cannot be automatically matched; an analysis and comparison verifies the alternatives to ensure validation.
- **Positive Address Selection System (PASS) assisted validation – A** small percentage of records cannot be processed using automatic or semi-automatic validation techniques. Using TCS's state-of-the-art Web-based tools, analysts can match civic addresses to the corresponding MSAG in an efficient, cost-effective, and managed environment. PASS can easily be woven into existing provisioning processes.

With the dynamic nature of subscriber addresses and MSAG data, ensuring quick and highly reliable MSAG matches is RAVE911's greatest strength. TCS analysts constantly examine both civic addresses and MSAG data to identify patterns that cause automatic matching to fail. This enables TCS to develop data translations that remedy address match failures and improve overall validation rates.

These processes assure VoIP Service Providers, Cable Multiple System Operators (MSOs), and broadband providers that civic addresses or E9-1-1 MSAG data and routing Emergency Service Numbers (ESNs) are available and ready to deploy when subscribers join their networks.

More than Public Safety

This process has revolutionized the matching of civic addresses to the appropriate MSAG and opens the way for additional service. The simple act of validating civic addresses provides an avenue for many enterprises to update their subscriber database to assure accurate delivery, billing accuracy, and minimize mailing misroutes. As the leader in location services with its Xypoint® Location Platform, TCS can provide the benefit of real-time validation with RAVE911 and assure accuracy of subscriber addresses.