

## Real Time Address Validation Engine 911

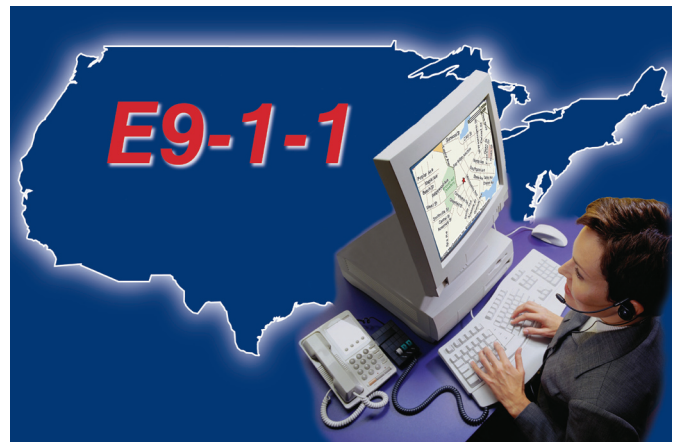
*Accurate and unambiguous civic addresses or locations for any subscriber—whether VoIP, wireless, or landline—are essential to Enhanced 9-1-1 systems. Currently, Public Safety Answering Points (PSAPs) validate with a locally managed dataset known as a Master Street Address Guide (MSAG).*

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.

### *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.

## 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.
- **Scaleable** - 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.

## 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.

## Your Established Partner

TCS is a leading provider of mission-critical data solutions and a leading VoIP Positioning Center (VPC) for telecommunication carriers and government customers requiring high reliability and security. TCS pioneered the world's first wireless location platform in 1996 and is now a leader in providing emergency and commercial location services in the United States.

## Get Started Now

For more information or to learn how accurate address data can save your company time and money, call 1-800-307-9489 or e-mail sales@telecomsys.com or visit www.telecomsys.com.

