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TeleCommunication Systems Receives Six U.S. Patents for Advancements in Public Safety Communications Technology

Patents Encompass Location, Wireless, VoIP, and Next Generation 9-1-1 Technologies

Note: Comtech Acquired TCS on 2/23/2016

ANNAPOLIS, MD, May 24, 2011 -- TeleCommunication Systems, Inc. (TCS) (NASDAQ: TSYS), a world leader in highly reliable and secure mobile communication technology, today announced that the U.S. Patent and Trademark Office has issued TCS six patents related to public safety and E9-1-1 technology:

- | "Ancillary Data Support In Session Initiation Protocol (SIP) Messaging" (U.S. Patent No. 7,929,530)
- | "Wireless Emergency Services Protocols Translator Between ANSI-41 and VoIP Emergency Services Protocols" (U.S. Patent No. 7,903,587)
- | "Enhanced E911 Location Information Using Voice Over Internet Protocol (VoIP)" (U.S. Patent No. 7,903,791)
- | "Voice Over Internet Protocol (VoIP) Location Based 911 Conferencing" (U.S. Patent No. 7,907,551)
- | "Solutions for Voice Over Internet Protocol (VoIP) 911 Location Services" (U.S. Patent No. 7,912,446)
- | "Emergency Alert For Voice Over Internet Protocol (VoIP)" (U.S. Patent No. 7,933,385)

"Ancillary Data Support in Session Initiation Protocol (SIP) Messaging" -- Next Generation 9-1-1 (NG9-1-1) systems will provide the technical capacity for pictures and videos of an accident scene, individuals' medical files, and other data files sent to an emergency call center and responders to support the provision of emergency response. The TCS invention discusses an ancillary server that can provide any kind of data (for example, photos, videos, in conjunction with an E9-1-1 call. Potential users of the invention may include members of the public safety community, operators and third-party information providers.

"Wireless Emergency Services Protocols Translator Between ANSI-41 And VoIP Emergency Services Protocols" -- Wireless carriers want to use current SS7-based protocols to request VoIP call routing information for E9-1-1 calls placed over their network. Likewise, VoIP operators want to use VoIP protocols to request wireless call routing information. The TCS invention is a protocol converter that translates communications between SS7-based wireless networks and VoIP networks in a way that allows wireless and VoIP operators to continue using their existing infrastructure to route E9-1-1 calls.

"Enhanced E911 Location Information Using Voice Over Internet Protocol (VoIP)" -- VoIP E9-1-1 calls do not transmit the caller's location or callback number when the call is transferred to a public safety answering point (PSAP). The TCS invention discloses a method and apparatus for provisioning a local VoIP gateway that has dedicated circuits to a selective router. It does so in a way that allows the correct location information and callback number to be routed to the PSAP that serves the VoIP E9-1-1 call's originating location. TCS uses the invention for its NENA-compliant i2 solution for VoIP customers.

"Voice Over Internet Protocol (VoIP) Location Based 911 Conferencing" -- In some cases, E9-1-1 calls placed from within VoIP networks require participants (for example, police or fire department personnel) to be added to the call; in other cases, such calls must be routed to a different emergency call center. The TCS invention allows an emergency call center to add participants or reroute the call by establishing an emergency call conference bridge without the risk of dropping the call.

"Solutions for Voice Over Internet Protocol (VoIP) 911 Location Services" -- When a VoIP E9-1-1 call is placed from a mobile device, the location of the caller is not automatically provided to a PSAP. The TCS invention discloses a method and apparatus for automatically retrieving a valid location for the mobile VoIP terminal by establishing a secure and uninterrupted communications link between the device and a location server containing the device's valid street address. TCS uses this invention for its NENA-compliant i2 solution for VoIP customers.

"Emergency Alert for Voice over Internet Protocol (VoIP)" -- Many state and local governments send alerts to people in their jurisdictions to warn them of potential emergencies (for example, tornado warnings). Under most circumstances, it is difficult to notify mobile VoIP users who are in the targeted area but who are not registered in the local emergency call databases. The TCS invention discusses a method and apparatus that allows an emergency call center to contact a VoIP

Positioning Center (VPC) that maintains the location of VoIP devices, consequently enabling the VPC to send the alert to all relevant VoIP users.

"TCS is committed to ensuring that our nation's public safety community can take advantage of the latest technological innovations," said Drew Morin, TCS' senior vice president and chief technology officer. "As TCS' recently awarded patents demonstrate, we're continuing to proactively develop solutions to meet our country's toughest Enhanced and Next Generation 9-1-1 challenges."

TCS holds 165 issued patents worldwide and has more than 300 patent applications pending. To learn more about TCS patents, please visit: <http://www.telecomsys.com/about/ip-licensing/patents.aspx>

About TeleCommunication Systems, Inc.

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' 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.

Except for the historical information contained herein, this news release contains forward-looking statements as defined within Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities and Exchange Act of 1934, as amended. These statements are subject to risks and uncertainties and are based upon TCS' current expectations and assumptions that if incorrect would cause actual results to differ materially from those anticipated. Risks include without limitation those detailed from time to time in the Company's SEC reports, including the reports on Form 10-K for the year ended December 31, 2010, and on Form 10-Q for the quarter ended March 31, 2011.

Existing and prospective investors are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof. The Company undertakes no obligation to update or revise the information in this press release, whether as a result of new information, future events or circumstances, or otherwise.

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