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TeleCommunication Systems Receives Four U.S. Patents for Advancements in Messaging Services

Note: Comtech Acquired TCS on 2/23/2016

ANNAPOLIS, MD, Mar 03, 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 four patents related to providing messaging services to both commercial and government customers. The four patents are "Temporary Enum Gateway" (U.S. Patent No. 7,852,834), "Prepaid Short Messaging" (U.S. Patent No. 7,853,511), "System for Efficiently Handling Cryptographic Messages Containing Nonce Values" (U.S. Patent No. 7,856,660), and "Intelligent Delivery Agent for Short Message Distribution Center" (U.S. Patent No. 7,860,068).

"Temporary Enum Gateway" -- Electronic numbering (ENUM) services are referred to as implementation of a "phone number for life." Just like a Social Security number is assigned to a person for life, ENUM involves use of a single number to access a person over any applicable medium (e.g., telephone network, fax, internet, etc.). Given the proliferation of formats that support ENUM, there is need for a suitable method and apparatus for reliably providing callback number information for callers from all sources. TCS' invention meets this challenge by assigning a Temporary ENUM (TempENUM) at call setup time. For a communication that requires routing to a party which needs a particular callback format, the TempENUM provides consistency based on the callback format required. The receiving party also uses the TempENUM number to return communication to the initial caller.

"Prepaid Short Messaging" -- While a prepayment option for voice telephone calls is readily available, existing technologies have not applied the concepts of prepayment to short messaging. This lack of prepayment service increases the possibility for fraudulent billing with respect to payment collections, particularly when it comes to premium wireless information services, which are in high demand. TCS' prepaid messaging invention addresses this problem by providing a system for implementation of a prepaid short messaging service. The system buffers a short message for delivery, and then a messaging server suspends delivery if a subscriber's prepaid account balance is insufficient, or transmits the short message when the subscriber's prepaid account balance value is sufficient.

"System for Efficiently Handling Cryptographic Messages Containing Nonce Values" -- As more users rely on the internet and for information exchange and services, the reach of data networks has extended to the wireless domain. Since data networks exchange information over publicly accessible areas, there is an opportunity for breached communication security. Cryptographic techniques such as incrementing nonce (number used once) values takes advantage of the fact that message traffic between two parties may contain a nonce value that is always increasing for each message sent. As a result, old messages may be rejected or considered part of an attack because they contain a lower than expected nonce value. However, there are situations where existing nonce techniques may reject valid messages. TCS' new invention compares the nonce value to an acceptance window, and then rejects the received message if the nonce value falls outside an acceptance window.

"Intelligent Delivery Agent for Short Message Distribution Center" -- There are many "wireless" information content providers in the industry that have some information or service valued by mobile phone users. In many cases, information content sent via common input sources, i.e. email, cannot be differentiated from higher priority "personal" content. This causes a multitude of issues, from failure to prioritize personal messaging to inefficient use of network resources. TCS' invention provides an easy way for information content providers to distribute and differentiate their wireless content without requiring them to change technologies or inbound protocols. A message distribution center (MDC) and intelligent delivery agent are implemented to subjectively examine and direct messages via the Simple Mail Transfer Protocol (SMTP) based on desired policy rules (e.g., nonpeak hours, paying subscribers only, etc.) using standard protocols. The MDC provides a single mechanism for interacting with subscribers of multiple carriers, regardless of each carrier's underlying infrastructure.

"As the world's use of messaging services expands, so does TCS innovation and technology," said Drew Morin, TCS senior vice president and chief technology officer. "These patents affirm TCS' commitment to solutions that will make a difference in how we communicate, whether those communications travel across the street or around the world."

As of February 28, 2011 TCS holds 144 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, 2009, and on Form 10-Q for the quarter ended September 30, 2010.

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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