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Successful trials of the latest satellite-based container tracking technology, SECURED by CargoTrax®, were announced today. The trials, which involved extensive testing of black boxes installed onto a ThermoKing Reefer, were conducted in the South China Seas during March 2007, and were verified by the STET Maritime Bureau. The black boxes were interrogated several thousand times during the trials, with a high success rate.

SECURED by CargoTrax®, combines military-grade precision with existing standards-based technology, providing the accuracy required by shippers and government security services, while adding less than 2% to the cost of container rental, when the insurance premium discounts are taken into consideration.

SECURED by CargoTrax®, developed jointly by CargoTrax Oy of Finland and TriaGnoSys GmbH of Germany, is based on GSM, GPRS and GPS technology. It allows 24x7 global real-time security monitoring of containers and – of particular importance to refrigerated containers – monitoring of critical conditions that ensure the integrity of containerised cargo that can be worth up to US\$10million per container.

Dr. Markus Werner, Managing Director of TriaGnoSys, confirming the success of the trial, said, "I am pleased to report that all the test messages sent from various monitoring boxes and test SIM cards via the network on-board the Pacific International Lines of Singapore vessel *Kota Gemar* were captured and correctly logged. It was further confirmed that the subsequent forwarding of messages through the ground segment, provided by our partner FirstMobile, worked perfectly, and all information was correctly delivered to the remote monitoring application server."

SECURED by CargoTrax®, available later in 2007, monitors status of the container's cargo and the security of the container using a state-of-the-art, officially compliant RFID container door eSeal. This transmits a 'heart-beat' pulse in regular intervals via satellite to control centres both on the ship and on the ground, which can include the shipping company's headquarters, the ship's home port operator, or government security services. If the seal is compromised in any way, a panic 'alarm' signal is transmitted immediately, as is information about changes in temperature, humidity, vibration, light, and volumetric pressure, as well as levels of oxygen, carbon monoxide and carbon dioxide.

Stephen Lowe, CEO of CargoTrax, said, "CargoTrax will enhance the safety and security of the cargo, which in turn means reduced marine insurance premiums. Furthermore, the total end-to-end visibility of the security of the container means that

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port and security officials will be able to process the shipments more quickly, providing significant time savings."

Also in:



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TRIA

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SATNEWS DAILY

Successful sea trials for “Secured by CargoTrax” satellite tracking technology

Satnews Daily - “Secured by CargoTrax”, a next generation, satellite-based container tracking technology, has successfully completed sea trials. The trials, which involved extensive testing of black boxes installed onto a ThermoKing Reefer, were conducted in the South China Seas this March, and were verified by the STET Maritime Bureau. The black boxes were interrogated several thousand times during the trials, with a high success rate.

SECURED by CargoTrax combines military-grade precision with existing standards-based technology, providing the accuracy required by shippers and government security services, while adding less than two percent to the cost of container rental, when the insurance premium discounts are taken into consideration.

Available late in 2007, Secured by CargoTrax monitors status of the container’s cargo and the security of the container using a state-of-the-art, officially compliant RFID container door eSeal. This transmits a 'heart-beat' pulse in regular intervals via satellite to control centres both on the ship and on the ground, which can include the shipping company's headquarters, the ship's home port operator, or government security services. If the seal is compromised in any way, a panic alarm signal is transmitted immediately, as is information about changes in temperature, humidity, vibration, light, and volumetric pressure, as well as levels of oxygen, carbon monoxide and carbon dioxide.

Secured by CargoTrax®, developed jointly by CargoTrax Oy of Finland and TriaGnoSys GmbH of Germany, is based on GSM, GPRS and GPS technology. It allows 24x7 global real-time security monitoring of containers and – of particular importance to refrigerated containers – monitoring of critical conditions that ensure the integrity of containerised cargo that can be worth up to US\$10million per container.

Dr. Markus Werner, Managing Director of TriaGnoSys, on confirming the success of the trial, said he was pleased to report that all the test messages sent from various monitoring boxes and test SIM cards via the network on-board the Pacific International Lines of Singapore vessel Kota Gemar were captured and correctly logged. “It was further confirmed that the subsequent forwarding of messages through the ground segment, provided by our partner FirstMobile, worked perfectly, and all information was correctly delivered to the remote monitoring application server.”

Stephen Lowe, CEO of CargoTrax, said CargoTrax will enhance the safety and security of the cargo, which in turn means reduced marine insurance premiums. Furthermore, the

total end-to-end visibility of the security of the container means that port and security officials will be able to process the shipments more quickly, providing significant time savings.

TriaGnoSys, headquartered in Oberpfaffenhofen, Germany, a European centre of excellence for satellite communications, is a leading applied research company and a leading provider of solutions for remote air, land and sea communications from anywhere to anywhere, via satellite. Its researchers focus on a broad range of mobile satellite communication areas in conjunction with leading academic, government and industry researchers to advance the state of the art in such areas as mobile end-to-end solutions, next generation satcom and aircom, and combined navigation/communications applications and technologies.

CargoTrax Ltd, a company based in Finland (formerly MobinTeleCom Oy) offers Secured by CargoTrax, a comprehensive globally operational End-2-End Real Time Live Tracking, Anywhere-Anytime, turnkey Supply Chain Logistics & Security Monitoring Intermodal Container Security giving 24x7 transparency.

The SECURED by CargoTrax® Solution may meet the exacting demands of the EurepGAP Protocol to ensure the food chain logistics to safeguard the EU consumer from potential hazards.

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Trials for next generation of container tracking successful

SUCCESSFUL trials of the latest satellite-based container tracking technology, **SECURED** by CargoTrax, were announced today. The trials, which involved extensive testing of black boxes installed onto a ThermoKing Reefer, were conducted in the South China Sea during March 2007.



The black boxes were interrogated several thousand times during the trials, with a high success rate. The results were verified by the STET Maritime Bureau.

SECURED combines military-grade precision with existing standards-based technology, providing the accuracy required by shippers and government security services. It adds less than 2% to the cost of container rental, when the insurance premium discounts are taken into consideration.

The technology was developed jointly by CargoTrax Oy of Finland and TriaGnoSys GmbH of Germany and is based on Global System for Mobile communications (GSM), General Packet Radio Service (GPRS) and Global Positioning System (GPS) technology.

It allows 24/7 global real-time security monitoring of containers and – of particular importance to refrigerated containers – monitoring of critical conditions that ensure the integrity of containerised cargo.

TriaGnoSys managing director Dr Markus Werner confirmed the success of the trial.

"I am pleased to report that all the test messages sent from various monitoring boxes and test SIM cards via the network on board the Pacific International Lines of Singapore vessel 'Kota Gemar' were captured and correctly logged," he said.

"It was further confirmed that the subsequent forwarding of messages through the ground segment, provided by our partner FirstMobile, worked perfectly, and all information was correctly delivered to the remote monitoring application server."

SECURED will become available in late 2007. It monitors the status of the container's cargo and the security of the container using a state-of-the-art, officially compliant radio-frequency identification (RFID) container door, eSeal.

This transmits a "heartbeat" pulse in regular intervals via satellite to control centres both on the ship and on the ground, which can include the shipping company's headquarters, the ship's home port operator, or government security services.

If the seal is compromised in any way, a panic "alarm" signal is transmitted immediately, as is information about changes in temperature, humidity, vibration, light, and volumetric pressure, as well as levels of oxygen, carbon monoxide and carbon dioxide.

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