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SUCCESSFUL LAND-SEA GSM-GPRS-GPS SUPPLY CHAIN LOGISTICS & SECURITY MONITORING TRIALS SAIL INTO A COMMERCIAL REALITY!

An international consortium has deployed a successful Land-Sea-Land trials of the most advanced Intermodal Container tracking technology into a commercial reality. The Trials conducted in South China Seas, between Singapore -Thailand - China (Shanghai and Hong Kong) - Singapore during January-February 2007 were independently monitored by the Singapore Technologies Education & Training - Maritime Bureau.

Cooperation between CargoTrax Ltd Finland, TriaGnoSys GmbH Germany, ThermoKing Ingersoll Rand Corp USA, Hansabaltic Oy Finland, Pacific International Lines - PIL Singapore, STET-Maritime Bureau Singapore, Maritime & Ports Authority - MPA Singapore, Globaltrax Pte Ltd Singapore, AETOS Military Police Singapore, has produced a successful credible end result.

The most important function in the Trials were to prove the efficacy of the GSM<->GSM connectivity on mid-seas via Inmarsat satellite, as well as the seamless hand-over of GSM-over-Satellite to Terrestrial Transmitters whenever the ship encounters Land GSM coverage, thus maintaining the global GSM legalities.

The **SECURED by CargoTrax®** solution, which is based on Real Time GSM, GPRS and GPS technology, allows 24x7 Global Anywhere-Anytime, Security Monitoring of containers and of particular importance to Reefers (refrigerated containers), monitoring of critical conditions that ensure the integrity of containerized cargo, that can be worth up to US\$10million.

The status of the cargo and the security of the container are constantly monitored by a state-of-the-art, officially compliant RFID container door eSeal, which transmits a 'heart-beat' pulse every 1.5 seconds to control centres, both on the ship and on the ground, which can include, the consignee, the shipper, the shipping company's headquarters, the ships' home port operator, or government security services. If the e-seal is compromised in any way, a panic alarm signal is transmitted immediately, as are changes in temperature, humidity, vibration, light, and volumetric pressure, as well as levels of oxygen, carbon monoxide and carbon dioxide.

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. The potential avoidance of consequential losses due to variable factors, by constant monitoring, is a major benefit to all parties in the entire end-to-end Supply Chain.

A series of Pilot Trials conducted during August 2006 upto March 2007 was the result of over four years of R&D, were initiated by **Maritime & Ports Authority (MPA)** of Singapore, and monitored by the Singapore government owned **STET-Maritime Bureau**, confirmed a 100% success.

The sea-trials were carried out on vessels owned and operated by **MPA** and by **Pacific International Lines (PIL)** of Singapore.

The **TEXEL®** GSM-GPRS-GPS-RFID Black Boxes supplied by **Globaltrax Pte Ltd** of Singapore, were installed onto **ThermoKing Reefer** and were interrogated several thousand times during the sea voyage, giving a 100% successful return in combined GSM-Satellite communications, with **Aetos Military Police of Singapore** providing a credible security monitoring platform, supplied by **Globaltrax Pte Ltd** of Singapore.

Sami Laine, Chairman of CargoTrax, said, "*CargoTrax will enhance the safety of the crew, the cargo, and the vessel, with continuous transparency, which in turn means that marine insurance premiums may be reduced. 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.*"

Sami Laine continued, "*A combination of the high levels of functionality and the price performance benefits, will drive global adoption of this technology, now available for commercial deployment. As a young Finnish company, we are proud to be able to pioneer such a vital state-of-the-art global communications concept in logistics and security.*"

Captain Andre Khir, Managing Director of STET Maritime Bureau, confirmed the success of the trial. He said, "*I am pleased to report that all the test messages that were sent from various mobile phones and SIM cards via the network on-board the Maritime and Port Authority of Singapore Survey vessel Mata Ikan were captured and received, and correctly logged, by the picocell. It was further confirmed that all the messages went through the satellite and were received and logged at the Vienna ground station.*"

Secured by CargoTrax® operates by transmitting Real-Time data using GSM-GPRS-GPS connectivity via the Maritime Satellite Gateway System MOGIS, developed by TriaGnoSys. The ship-installation is described as **CargoTrax - Maritime Gateway (C-MaG)**. The information is transmitted simultaneously by both GSM-SMS, Inmarsat, and over the Internet on SIM cards supplied by **Hutchison Telecom of Hong Kong**, the second largest global telecoms operator.

According to **Stephen Lowe, Chief Executive Officer of CargoTrax Ltd**, *We are ready to Roll! This is a strategic move by CargoTrax to take SECURED by CargoTrax®, an innovative, creative and versatile solution to commercialization. I am particularly satisfied that STET MB, the leading organization in the development of Supply Chain Security Standards, comes on-board in this partnership. I am confident that we will collaborate in many other related areas to further add value to SECURED by CargoTrax® to benefit the global container shipping industry at large. We are pleased to announce that our commercial sales & installations have already*

started with multinational organizations. We invite shipping lines with own Reefer containers to contact us for special pioneering concessions.

Capt Andre Khir, Managing Director, STET-MB shared the same vision and said, *the partnership enables STET MB to participate in the marketing of an advanced technology product to enhance the safety and security of the containers and the cargo within. This project is synergistic to our business scope in the maritime and logistic industries and it will create further value chain to our customers globally.*

Dr Markus Werner, Managing Director of TriaGnoSys, said, *"We are very pleased that the verification tests met all the specified requirements for acceptance tests of our Maritime Satellite Gateway System. We have developed a range of solutions for remote air, land and sea communications via satellite, and the success of this trial further endorses our position as a leader in our field."*

Sami Laine added, *"In order to capitalise on being far ahead of potential competition, CargoTrax is seeking global partners, as well as professionals to build an international management group. Our second generation product R&D is firmly on-track and we are also seeking potential partnership support for next round of funding."*

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About CargoTrax

CargoTrax Ltd, a company based in Helsinki Finland, (name changed from MobinTeleCom Oy), offers **SECURED by CargoTrax®** a state-of-the-art, comprehensive Globally operational GSM-GPRS-GPS, RFID e-Seal, Multiple Sensors, End-2-End Real Time, Live Tracking, Anywhere-Anytime, turnkey Supply Chain Logistics & Security Monitoring Intermodal Container Security, giving 24x7 transparency and control.

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

SECURED by CargoTrax® may contribute to demands of the **Long Range Identification and Tracking (LRIT)**, an **IMO** initiative.

The Maritime Safety Committee (MSC) at its 81st session in May 2006 adopted new regulations for the LRIT together with associated performance standards and functional requirements.

The new regulation on LRIT is included in SOLAS chapter V on Safety of Navigation, through which LRIT will be introduced as a mandatory requirement for the following ships on international voyages: passenger ships, including high-speed craft; cargo ships, including high-speed craft, of 300 gross tonnage and upwards; and mobile offshore drilling units.

The hardware solutions consist of the a GPRS-SMS Gateway Platform commercialized by TriaGnoSys GmbH of Wessling, and the Triband/Quadband GSM-GPRS-GPS-RFID-WiFi Telematics equipment with Volumetric Sensors, combined with a high security Active Intelligent RFID Door Seal exclusively developed by Globaltrax Pte Ltd for CargoTrax Ltd of Helsinki. The nominal costs of which may be off-set by potential insurance discount considerations and giving a peace-of-mind to the shipper/consignee of a high-value, easily disposable/perishable, sensitive cargo.

Further information at <http://www.cargotrax.net/>

About TriaGnoSys

TriaGnoSys, head quartered 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. TriaGnoSys 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. TriaGnoSys approaches every project as an opportunity to go beyond expectations by providing solutions that not only accomplish all objectives but also present new, commercial possibilities. TriaGnoSys' Mobility Gateways and Communication Servers (MOGIS) enable system integrators and service providers in both civilian and military applications, to leverage its unique high-speed, two-way transport capabilities and quickly deploy reliable GSM, UMTS, WLAN, Satellite and RFID-based services anywhere in the world.

Further information at <http://www.triagnosys.com/>

About STET-MB

STET Maritime Bureau (STET MB), a subsidiary of ST Education and Training Pte Ltd based in Singapore. It is a leading company in maritime security, supply chain and marine consultancy services. STET MB is one of the largest maritime security service providers, having certified the security plans of more than 3,900 ships and more than 90 ports facilities in Singapore and the region.

ST Education and Training Pte Ltd (STET), a subsidiary of ST Electronics Conglomerate of Companies, is a leading company in education, training, management and consultancy services in maritime, aerospace and land industries. It is also a strategic training partner of the Republic of Singapore Navy (RSN) and a leading service provider in maritime and homeland security in this region.

<http://www.stet.com.sg/>