*Avante*

## AVANTE to License and Deploy its RFID Cargo Seal to Secure Container Shipping

PRINCETON—(BUSINESS WIRE)—April 6, 2005—"Needle-in-haystack" syndrome is a challenge all security professionals are faced with in handling millions of container trips yearly around the world. Less than 2% of the 21,000 containers arriving daily at US ports are inspected.

Traditional e-seal technologies tried in the earlier Container Security Initiative (CSI) typically integrate active tags with the outside seals exposing them to tampering. The seals monitor the integrity of the lock-and-seal rather than actual intrusion.

AVANTE has developed the long-sought solution of intrusion detection by placing active tags (ZONER™) inside the container. ZONER™ differs from traditional tags by emitting a burst of 433 MHz signals at several discrete power levels every few seconds. An RF network of readers (RELAYER™) outside the containers constantly monitors the signal changes. Intrusion through any surface on the container will cause a distinct change in the discrete signals received by the monitoring network. Redundancy is built-in to minimize any false alarms that have plagued e-seal technology.

A secure onboard communication system automatically reports any in-transit intrusion or tampering immediately to the destination custom and port authorities. The tampered carrier can be inspected away from the destination port to prevent mass destruction.

AVANTE pioneered the first RFID technology for tracking attendees in event management using its patented technology. This capability is strengthened with the issuing of another US patent on *"Article Tracking System and Method" (10/260127)* filed in 2000. "The basis of the innovation is the gathering of RFID tag data in different tracking stations that are distributed over wide areas. The data is shared between stations to users over the Internet and other communication means," said Dr. Kevin Chung, CEO of AVANTE. "This patented solution provides true end-to-end visibility to secure the supply chain."

The RELAYER™ network with complete coverage of a ship's deck and port terminal yard would cost $10,000 and $1 million respectively. Depending on the sensors integrated, each container trip would cost less than $50.

### ABOUT AVANTE
AVANTE is located in Princeton, NJ ([www.avantetech.com](http://www.avantetech.com)) and looking to partner and license these RFID technologies to help secure the global supply chain.

Please visit AVANTE at the ***"RFID JOURNAL LIVE! 2005"*** exhibition on April 10-12 at the Sheraton Chicago Hotel & Towwer for a live demonstration.

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