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DUOS TECHNOLOGIES WINS RAIL INSPECTION PORTAL CONTRACT FROM KANSAS CITY SOUTHERN
Based on Video Analytics, System Will Document a 360-Degree View of Passing Railcars

JACKSONVILLE, FL/Kansas City, MO, June 30, 2010 – Kansas City Southern (KCS), a Class I freight railroad, has awarded Duos Technologies a contract to develop a rail inspection portal that will document a 360° view of railcars as a train passes through an inspection point. This technology-driven system will provide both security and operational benefits for KCS.

The rail inspection portal combines a number of proven, independent systems into a single inspection point, based on the railroad's individual requirements. Driven by **praesidium**®, Duos' intelligent video analytics platform, the portal uses high-definition video cameras to capture, inspect, and document views of the top, sides, and underside of each railcar.

Using software algorithms, the system examines a 360° view of each railcar and alerts railroad personnel to anomalies that may require additional inspection. Visual context is provided by a Linear Panorama Generator, which stitches sequential railcar images into a panoramic image of an entire train. The rail inspection portal is also designed to detect and provide alerts for missing hatches on covered rail hopper cars.

Authorized KCS personnel will view all video images, alerts, and reports on a customized user interface in a network browser window. Information can also be provided to third-party agencies as KCS may require. The project (valued at approximately \$800,000) will be executed by Duos for completion in 2010.

"Our Rail Inspection Portal has become an essential tool for improved and cost effective railcar inspections," said Gianni Arcaini, Duos Technologies' CEO. "Rail inspectors can now use a powerful computer vision suite that relies on sophisticated video analytics to inspect all aspects of a moving railcar from a centralized, remote location. The system not only improves quality control of the railroad's moving assets, but also provides significant cost savings due to its centralized operation and the ability to detect potential safety hazards at an early stage."

Duos Technologies Inc., headquartered in Jacksonville, Florida, provides a broad range of technology solutions with an emphasis on Homeland Security. Its systems are based on its proprietary object detection and behavioral analysis software, managed by the company's multi-layer control platform. This allows seamless integration of a myriad of sensing technologies into a unified command and control interface. Its comprehensive automated systems play a meaningful role in the transportation, petrochemical, and healthcare industries.

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