



Intelligent Intermodal Solutions (IIS)

Fast, efficient processing for containers, trucks and drivers



SAIC's OCR technology automatically identifies equipment at the gates and on the quay.

A busy cargo terminal needs to keep track of thousands of containers, trucks and drivers every day — all at the fast pace of commerce. SAIC's IIS systems provide automated processing at the gates and on the quay to improve efficiency, throughput and security.

Optical character recognition (OCR) systems identify trucks and containers at the gates. Kiosks in the lanes automatically identify drivers and issue instructions. On the quay, crane-mounted OCR systems identify containers and record actual stow positions. The IIS system integrates information from these sources and sends selected information to the terminal operating system (TOS). In the operations center, clerks monitor the traffic at the gates and cranes, and inspectors check containers for damage online.

With IIS systems providing timely, accurate information from key locations, the terminal can streamline its gate and quay operations and manage traffic more efficiently than ever.

**SAIC's Gatestand kiosk streamlines
the driver transaction at the gates**

Integrating information throughout the terminal

IIS system components at key locations throughout the terminal work together to identify containers, trucks and drivers, and to deliver information quickly where it's needed.

- ◆ At the gates, the IIS system captures high-quality digital images of the container, chassis and license plates. The system uses OCR to read the numbers in the images and stores the images and OCR results in the system database for access anytime.
- ◆ In the lanes, Gatestand kiosks scan cards or fingerprints to identify drivers, read license plates to identify trucks, and print instructions and other documents for the terminal transaction.
- ◆ On the quay, the CraneView crane-mounted OCR system reads container numbers as the containers are moved by cranes, and records actual stow positions during loading.
- ◆ The IIS system can also incorporate data from scales and other non-IIS devices, as well as manifests and other documents from external information systems.
- ◆ The IIS server integrates and stores images and data from IIS components and other sources throughout the terminal. Using SAIC's proven interface, the server provides transaction data to the terminal operating system (TOS) and receives information from the TOS to display or print for drivers.
- ◆ Using IIS workstations at central locations, clerks can monitor the gate processes and assist drivers remotely, and inspectors can review live or stored images to check containers for damage.

The IIS system features powerful server and database technology to manage images and data, and web-based interfaces for user and administrative functions. And thanks to the system's modular design, IIS components can be added in the future to handle new requirements.

A complete solution

For streamlined implementation and operation, SAIC provides each IIS system as a turnkey solution, with world-class services for installation, training, maintenance and technical support. Each system is backed by SAIC's experience from installations at seaports, intermodal terminals and other cargo facilities around the world.

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Key benefits

- Enhance efficiency through automation and centralized operations
- Increase throughput by streamlining processing
- Improve security by identifying containers, trucks and drivers
- Reduce data errors and incorrect container moves
- Improve safety by keeping personnel out of traffic areas