STOS

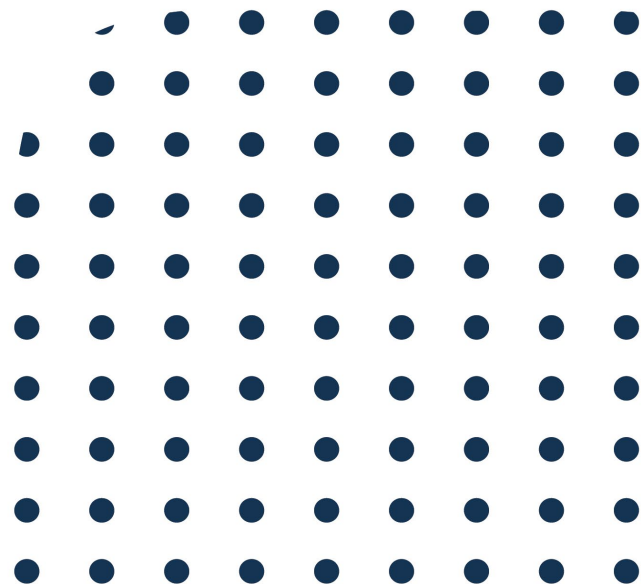**SMART TERMINAL OPERATING SYSTEM**

Smart Terminal Operating System:

Streamlining Operations,

Empowering Efficiency

Solution Overview:

The Smart Terminal Operating System (STOS) is an innovative platform developed by Ciphertronix to revolutionize terminal operations, logistics, and financial management in import/export activities. STOS offers a comprehensive solution to streamline processes, enhance transparency, and ensure compliance with industry standards. By leveraging cuttingedge technology and integrating realtime tracking, document management, and robust financial modules, STOS empowers businesses to achieve operational excellence. Whether managing prealerts, overseeing container movements, or handling complex financial adjustments, STOS provides an allencompassing solution for modern terminal operations.

Why Choose STOS?

STOS embodies efficiency, security, and scalability, tailored to meet the demands of today's dynamic logistics environments. With specialized modules for import and export operations, dynamic reporting tools, and usercentric design, STOS ensures seamless handling of operations from end to end.

STOS IMPORT FEATURES

OffDock Operations & Customer Service Desk:

Pre-Alert Management Module:

Monitor incoming shipments, manage documentation, and track outstanding payments. Streamline financial accountability with tools for THC, SD, and LOLO charges.

Manifestation and Document Management:

Oversee the management of manifested containers/indexes scheduled to arrive at OffDock terminals. Ensure the timely update of all related and necessary information to maintain accurate records and smooth operations and manages transporter profiles and assigns vehicles for cargo movements.

Gate-In Operations:

Streamline the issuance of tickets for container drop-offs, ensuring accurate tracking and efficient operations. Manage vehicle parking ticket processes, maintaining detailed records to optimize traffic flow and monitor truck movements for cargo entering and exiting the terminal, ensuring effective logistics management. Supervise gate-in operations for containers, facilitating seamless terminal entry. Oversee gate-in and gate-out processes for all visitors, ensuring proper documentation, recording entry and exit times, and capturing images for security and compliance.

Shed/LCL Operations Management:

Ensure meticulous documentation of cargo movements by maintaining detailed logs that reconcile physical inventory with system records. Supervise the accurate weighing of cargo and to adhere to regulatory requirements. Coordinate the unloading and inspection of cargo within designated sheds to facilitate efficient processing. Additionally, manage the movement and storage of cargo within sheds and racks, ensuring organized handling and precise tracking for seamless operations.

Empty Container Management:

Track the destuffing process of empty containers and ensure their timely preparation for dispatch. Maintain detailed logs of empty container receipts to support effective inventory management. Facilitate the reprinting of gate passes for empty container movements as required. Oversee the delivery of received empty containers to designated parties, and monitor and record gate-out movements to maintain accurate and up-to-date records.

Examination and Inspection Management:

Monitor and document container grounding activities to support inspection and examination processes. Oversee grounding operations for containers bypassing Authorities/Customs processing and log grounded containers within designated sheds for inspection and storage. Manage the grounding of manually processed shipments within the shed and assign seals to containers to ensure cargo security during transit and storage.

Financial Inquiries and Adjustments:

Provide customers with seamless access to billing details, allowing them to verify charges and track payments for cargo handling and storage services. Efficiently manage the processing of waivers for specific cases, such as penalties or additional storage fees, ensuring accurate and timely resolutions.

Cross Stuffing Operations Management:

Record the receipt of empty containers designated for subsequent stuffing operations. Oversee the entry and stacking of empty containers within the terminal to ensure efficient handling. Facilitate cargo transfers between containers with meticulous documentation and monitoring throughout the process. Prepare containers for gate-out procedures, ensuring they are ready for dispatch. Generate detailed reports on cross-stuffing activities, including timelines and container statuses, to support effective operational tracking

Gate Out Operations:

Track and process the exit of indexes and containers from the terminal, ensuring full compliance with customs / authority regulations. Oversee smooth gate-out operations, ensuring all necessary documentation is in place and compliance with customs rules is maintained. Manage the exit of transshipment containers, ensuring they meet all customs requirements for seamless transit.

Auction Management:

Manage the process of auctioning abandoned or unclaimed cargo, ensuring adherence to local regulations. Provide detailed information on ongoing and upcoming auctions, including cargo specifications and reserve prices. Track auction holds for cargo stored in CFS or Container Yard (CY) and update auction statuses once payments or claims are resolved, facilitating cargo release. Assist with customs-related documentation for imported goods, ensuring faster processing and approvals. Generate comprehensive reports on auction activities, covering inventory, bidding outcomes for accurate tracking and analysis.

Manual Shipment Processing:

Manage custom messaging and processing for nonstandard or manual shipments, ensuring flexibility in documentation. Utilize workflows for handling manual operations related to cargo processing, inspections, customs clearance, and shipment record management, ensuring efficiency and accuracy throughout the process.

Cargo Status and Handling Reports:

The application offers a comprehensive suite of reports, covering a vast array of processes within the system. Each report is tailored to provide in-depth insights into specific operations, ensuring that users can track and monitor activities with precision. From cargo movements and customs compliance to auction activities and manual shipments, the application generates detailed reports that support efficient decision-making and operational transparency. With robust reporting capabilities, users can access real-time data, view historical trends, and generate custom reports based on specific criteria. These reports are designed to enhance the management of cargo handling, inspections, documentation, and financial transactions, ensuring streamlined operations across the board.

Other Operations:

Assigns tasks and monitors labor activities for manual operations.

Finance Department

Tariff Management:

- **Tariff Head Creation:** Create and manage tariff heads to standardize the billing process, ensuring consistent application of rates and accurate financial transactions.
- **Tariff Percent:** Allows percentage-based tariff configurations for flexible pricing structures.
- **Tariff Assigning:** Assign tariffs to specific contracts, accommodating various types of freight forwarder agreements with flexible and dynamic options.
- **Multi Tariff Assigning:** Enables bulk tariff assignments, simplifying processes for large operations.
- **Unlock Generate Bill:** Recheck the LCL based tariffs and update before invoice creation.
- **Bill to Line:** Leverage the bill to line option to modify specific consignment rates as per the freight forwarder email instructions, ensuring accurate and aligned billing.
- **Line Index:** Use Line Index options to update all CFSLCL consignment rates as instructed by the freight forwarder via email, ensuring precision and consistency in billing.
- **Port Charges:** Manage seaport charges, including detention and demurrage payments, made by the terminal.
- **Other Charge** Assigning: Adds supplementary charges for specific services.
- **Tariff Contracts:** Monitor all created tariffs to ensure they are accurate and align with operational standards and regulations.
- **Sales Tax:** Configures sales tax percentages to ensure tax compliance and accurate invoicing.
- **Exchange Rate:** Manage exchange rate percentages for CY containers and FCL containerized shipments, ensuring accurate financial calculations and consistency across transactions.
- **Credit Allow Approval:** Control credit approvals to minimize financial risks, ensuring thorough assessment and authorization before extending credit for shipments.
- **Credit Receive:** Monitor and manage the receipt of credit payments, ensuring accurate allocation and timely processing.
- **Percent for FF Billing to Line:** This option is used when you are managing a counter for a freight forwarder (FF) independently. Billing for that FF is initiated from here, applying the respective percentage for the charges.
- **FF Billing:** The invoices that need to be initiated for the freight forwarder (FF) will be created from this point, ensuring accurate billing for their shipments.
- **Settle/Unsettle Invoices:** This option manages the reconciliation of invoices created by the freight forwarder (FF), tracking whether the terminal has invoiced the FF or not for proper monitoring and adjustments.
- **Excess Refund:** Manages refunds for overpayments and resolves settlement discrepancies, ensuring accurate financial transactions and adjustments.

Cashier Management:

The Cashier Management module streamlines financial operations related to payments, invoicing, and credit management. It handles "Let Pass Amount" payments for accounts already open in the application, ensuring proper allocation and record-keeping. The system generates invoices for empty container handling services and import operations, ensuring accurate billing. It supports managing payments, reconciling invoices, and monitoring credit transactions through options like "Settle Amount," "Credit Allowed," and "Credit Receive." Additionally, it provides agent-wise invoice summaries and handles freight forwarder (FF) billing, including slab-based percentage calculations for independent counters. With tools for excess refund processing and invoice reconciliation, this module ensures financial accuracy, minimizes risks, and maintains detailed transaction records.

Reports and Audits:

This section empowers organizations with robust reporting and auditing capabilities. It supports invoice printing and cancellation with audit trails and generates agent-wise summaries for financial analysis. Features like reprinting billing details for Inland Container Terminal operations ensure compliance and accuracy. The application offers over 100 department-specific reports, a hallmark of STOS, enabling customized reporting across departments like CSD, CFS, Operations, and Finance. These dynamic reports facilitate comprehensive data analysis and decision-making, enhancing organizational efficiency and transparency.

Accounts Department

Chart of Accounts:

The Chart of Accounts module provides a structured framework for organizing financial data systematically. It supports defining account nature, categories, subcategories, and types, ensuring precise financial tracking and management. The system allows users to manage voucher services, view real-time account balances, and input customer and departmental details for accurate financial oversight. Backdated transaction control ensures authorized access only, preventing unauthorized modifications.

Voucher Management:

This module facilitates creating and managing vouchers for payments, receipts, and journal entries. It maintains a comprehensive log of all vouchers, ensuring easy retrieval and robust audit trails.
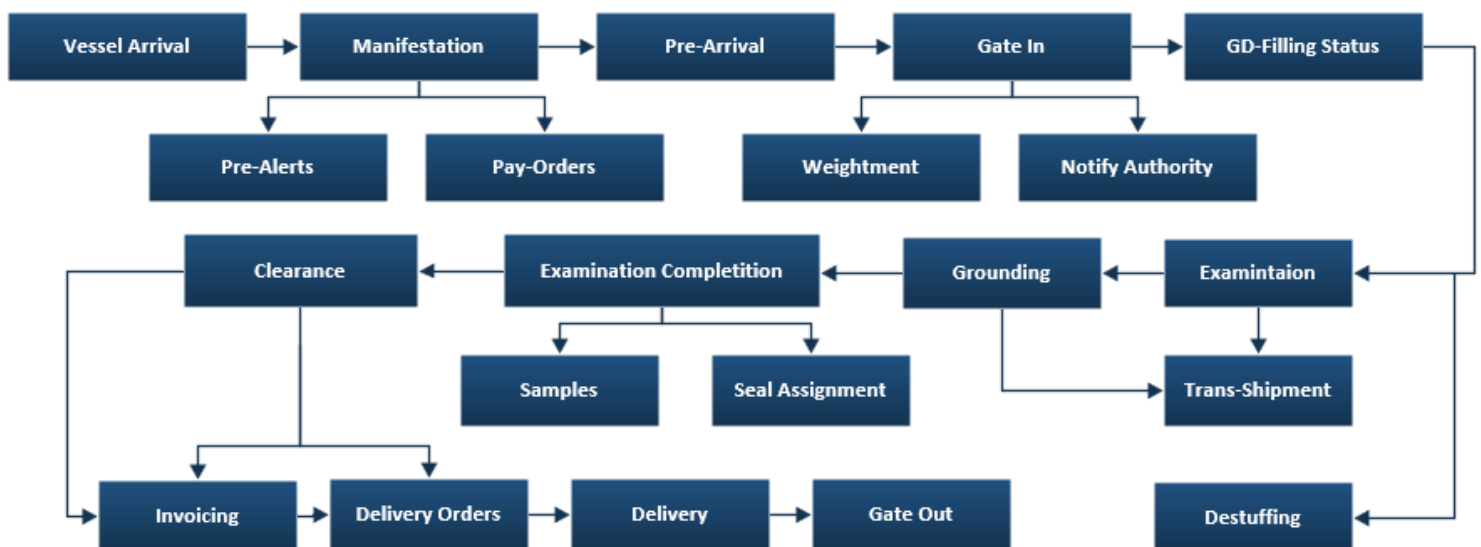
Accounts Reporting:

The Accounts Reporting section delivers tools for financial tracking and compliance. It supports cheque printing, maintains a printing log, and offers flexible ledger reports. These reports include debtors, creditors, transaction details, trial balances, and aging-wise balance reports, ensuring comprehensive financial insights and enabling timely action on outstanding receivables.

Financial Closure:

This module finalizes accounting entries and closes accounting periods, ensuring compliance with standards and maintaining the integrity of financial records. The posting process ensures accuracy, providing a reliable financial closure mechanism.

STOS EXPORT FEATURES

OffDock Operations & Customer Service Desk:

● **Terminal Gate-In Operations:**

This process involves managing and processing the Gate-In of Export GDs, ensuring efficient handling of all loading programs and shipment details. It includes consolidating and updating GD information to maintain accuracy and seamless operations throughout the terminal.

● **Export Examination Process:**

Grounded cargo details are comprehensively managed, ensuring proper tracking and documentation. The process also facilitates the efficient handling of Gate-In Details (GDs), including ANF management and preparing the necessary documentation for consignments.

● **Association Process:**

This involves managing the reception of empty containers after the issuance of a Container Release Order (CRO) and coordinating their delivery to the designated empty yard. GD binding and association processes enable linking multiple containers to a single export GD. The Gate-Out process for export containers is streamlined following customs seal verification, organized by GD, date, vessel, and voyage. Additionally, GD holds are handled manually to address specific requirements.

● **Other Options:**

Freight forwarders' permissions are managed via No Objection Certificates (NOCs), allowing them to delegate consignment handling. The cargo rollover process ensures seamless transfers to different vessels, either by GD or on a container-wise basis. GD deletions, association reversals, and container dray-off operations are handled effectively, enabling smooth adjustments and management of export processes.

● **GD Dray-Off Operations Management**

This includes processing dray-off GDs, generating invoices, creating gate-passes, and detailed dray-off reports. It also allows for reprinting gate-passes to address operational needs effectively.

Manual EDI Messages Management:

Export consignments are managed through the Manual EDI process, including records such as OPIA, OGDE, OEHC, OECM, OCRL, and OSVM. Missing or incomplete EDI messages from Weboc are updated to ensure accurate data flow and communication.

Finance And Cashier Module

Invoice Management:

This module facilitates the creation of export invoices, ensuring all necessary consignment details, charges, and export process information are accurately captured. It also provides options to reprint or cancel invoices before payment and settlement.

Cashier Module:

The cashier module enables the receipt of cheques and pay orders for settling export invoices, manages the refund of excess payments, and ensures invoices are fully cleared through payments made by cheque, pay order, or cash.

Tariff and Charges Management:

The Tariff and Charges Management system is designed to streamline the billing and financial processes within freight and export operations. It includes the creation and management of tariff heads, ensuring consistency and accuracy in rate application and financial transactions. Users can configure percentage-based tariffs, offering flexible pricing structures tailored to specific needs. The system facilitates tariff assignments for diverse freight forwarder agreements, supporting dynamic and flexible contract options. It also manages port charges, including detention and demurrage, as invoiced by terminals, and allows for the addition of supplementary charges for unique services or scenarios. The configuration of sales tax percentages ensures compliance with tax regulations, while the system supports storage tariffs calculated on slab rates in CBM for export billing. Slab-wise tariffs further enhance export billing accuracy, and users can input extra free days for export shipments. The reporting feature is another highlight, offering over 30 department-specific reports and dynamic report generation capabilities. These tools empower users to create customized reports tailored to their needs, particularly for the export section, enhancing operational efficiency and financial accuracy.