Solvo.TOS
Ro-Ro

Being the ultimate solution for car and Ro-Ro terminals **Solvo.TOS Ro-Ro** provides streamlined management of operations across all fronts of the terminal: yard, gate, vessel, warehouse and rail. Thanks to Solvo's 26 years of experience in supply chain execution solution development and implementation Solvo.TOS Ro-Ro offers the industry's best practices and if necessary allows extensive customization to meet the customers' requirements in full.

TOS Ro-Ro functionality highlights

- Real-time planning and management of cargo handling operations and storage for various types of Ro-Ro cargo: cars, trucks, wheeled cargo (on trailers, semi-trailers), block trains, etc.;
- Support of various types of rolling equipment: MAFIs, trailers, chassis and more;
- Support of various Ro-Ro vessel types: PCC (PCTC, ferries, ROPAX, cruise ferries, ConRo, RoLo), barges;
- Automated BOLs download from external systems;
- Easy cargo search function: displays the current status and history of all cargo by owner, type, etc.;
- Real-time tracking and monitoring of operations e.g. remaining vehicles at the terminal by various identification numbers (VIN, POD, dealer mode etc.);
- Real time management of cargo status changes: wheeled cargo < - > conventional cargo ;
- Real-time cargo identification of units using RDTs with bar-code of RFID scanners by VIN numbers and other identifiers, OCR technologies, etc.;
- Bird-eye interactive terminal layout viewer and editor;
- Electronic queue of vehicle drivers to be boarded on a ferry;
- Gate management capabilities including self-service kiosks, truck-driver permits, e-signature support and more;
- WEB portal for shipping line agents and cargo-forwarders including pre-bookings for cargo pick-up and delivery using time-slots, etc.;
- Semi-automated resource planning and labor management including day-shift planning and work order management;
- Advanced reporting and KPI dashboards;
- Management of stuffing, unstuffing and restuffing operations with roll-trailers including the receiving and write-off of loads at the warehouse;
- Roll-trailer coupling/decoupling management ;
- Customs clearance management including communication with specialized customs software ;
- Integration with weighing equipment i.e. weighbridges, etc;
- Billing and invoicing capabilities;
- DGPS and RTLS tracking of vehicles , trucks, Ro-Ro trailers   and more...

15-20% increase
in load/discharge efficiency

Non-functional highlights

- SOA-architecture;
- Available as stand-alone Ro-Ro or a part of integrated mixed cargo solution;
- WEB-interface capabilities;
- Mobile Android interface for operators and tallymen;
- Support of different modes for wireless communication: Wi-Fi, GSM, narrow-band;
- Integration with PCS, PMIS, ERP, VBS, AGMS, BFEP, EAMS, etc.;
- Fail-safe recovery: dual server back-up and cluster configuration capabilities;
- Multi-site management availability.

Solvo.TOS Ro-Ro overview

Vessel management	**Berth planning**
Yard management & optimization	**Cargo stowage planning**
Gate management	**EDI**
Rail management	**Damage tracking**
External systems integration	**Data capture terminals with barcode and RFID scanning**

KPI dashboards
Terminal hardware integration
Web-portal for customers
Billing & invoicing
Interaction with coustoms

Load/discharge speed gain of
200+ line/meters
per hour per vessel

- Increased overall speed of operations thanks to address-based storage, load auto-ID, putaway rules and strategies, optimization algorithms;
- Full transparency over the yard, warehouses, berths, rail front and gates;
- Full cargo traceability: tracking all cargo moves and status changes at the terminal;
- Full operations traceability: who did what, when, where and how much it costs;

Solvo.TOS Efficiency

- Streamlined planning of resources and cargo handling operations;
- More effective usage of machinery;
- Expedited operation cost accounting and billing;
- Theft prevention;
- Increased data accuracy (up to 99.9%);
- Optimized space utilization.

50%
reduction of claims from customers

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