Seaports are commercial and infrastructure assets that form the backbone of national and regional economies. Ports are the life blood of any economy and a critical breakdown in the asset infrastructure would impact the delivery of goods.

NIIT Technologies has come up with a port management solution to optimize port operations. It facilitates real time monitoring and tracking of port operations and other related activities through automation and integration with other stakeholders. NIIT Technologies has been serving the transportation industry for more than two decades now.

Our customized offering enable clients achieve to operational excellence, cost optimization and satisfaction in multiple areas such as tracking of vessels, cargo handling and stowage, yard planning, optimized container stacking, etc.

Business Challenge
Impact of privatization and globalization has increased the vessel traffic at seaports. Operations have become extremely complex. Rapid increase in container traffic, limited container storage space, increase in cargo movements, need for yard planning, complying to regulations, tariff calculations and stevedoring payroll management are some of the challenges faced by modern ports on daily basis.

NIIT Technologies realizes the importance of quick solutions for sustained and smooth functioning of port operations. Leveraging our rich experience, we have come up with a solution which would optimize the port operations.

Business Solution
NIIT Technologies’ port management solution would ensure efficient port operations critical to optimization of operational cost, sustainable relationship with customers as well as port’s reputation. NIIT Technologies focuses on working consistently to provide IT solutions and services to the transportation industry and help you foresee future trends and help you align your business goals with it.

NIIT Technologies specializes in providing software and business solution for port and terminal operations. We have extensive experience in developing and implementing state-of-the-art Port management solutions ensuring automation, monitoring, scheduling and cost management of port operations and other related activities.
Modules and Functionalities

Portal Management:
- EDI for automatic upload and download of the messages.
- Web access with data level security to all stakeholders.

Marine Operations:
- End to end work flow based marine / vessel operation.

Registration Management:
- Registration of the Customers – Vessel agent, Cargo agent, exporter / importer, etc.
- Registration of the Terminal operators.
- Registration of new vessels.
- Registration of contractors.

Invoice Management:
- Customer Invoice and Contractor Payment voucher generation.
- Vessel Invoice, Cargo Invoice, Auxiliary service invoice.
- Pre – assessment, final with work flow based approval process and payment.

Manifest Management:
- Electronic Manifest for cargo and ferry / passenger (Inward, Outward and Dangerous Cargo).
- Web access with data level security to all stakeholders.

Berth Planning:
- Graphical berth planning to automate berth scheduling.
- Graphically monitor centrally all ports – berths.

EIS:
- Ad-hoc report generation on summarized operational data.
- KPI Reporting.

Radio Data Terminals:
- Real time operations recording.
- Vessel, yard, gate operations.
- Use of mobile devices and tablets for the real time operations.

Business Benefits

- **Operational efficiency:** The system facilitates easy control and automation, thereby improving efficiency across all areas of port operations through a single, integrated platform.
- **Ensures profitability:** It ensures profit maximization by improving throughout and optimizing turnaround time in environmental-friendly processes.
- **Real time data feed:** The application provides access to the central database to all stakeholders through Internet-based interfaces. Real time data availability ensures same information is available to all the stakeholders.
- **Business Intelligent solutions:** This system has advanced optimization algorithms and heuristics which help in the process of decision making. This enables users to make informed decisions in a complex operational environment.
- **Easy integration:** This system can be easily integrated with internal and external systems which increases the overall efficiency of the system.
- **Informed decision-making:** Users are equipped with the information at all times which ensures effective decision making in the ever changing environment.

NIIT Technologies’ Advantage

NIIT Technologies’ home grown domain expertise is further backed by alliances with partners having world class capabilities in delivering Logistic Solutions. We have partnered with several leading global product companies to provide top-class solutions in this domain.

- Ranked #1 in the Travel sector by the Datamonitor Black Book of Outsourcing Travel Industry Survey three times in a row.
- Successfully serving repeat customers for more than fifteen years.
- Proven competence and industry experience with leading airlines, airports, travel distribution and logistics companies.
- Competent technical know-how to ensure scalable tailor-made solutions.

Partner with NIIT Technologies to align your IT goals with your business objectives

A leading IT solutions organization | 21 locations and 16 countries | 8000 professionals | Level 5 of SEI-CMMi, ver1.2
ISO 27001 certified | Level 5 of People CMM Framework

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