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ilogistics

# Take control

Gain end-to-end control of upstream oil and gas logistics

ibssoftware

# Total Control on Upstream Oil and Gas Logistics

Personnel-on-Board

Planning & Scheduling

Health & Safety

Operations & Tracking

## What is iLogistics?

iLogistics is a multi-modal logistics management system designed to manage logistics operations pertaining to exploration and production (upstream) operations of oil and gas companies.

iLogistics covers the end-to-end operations of the upstream value chain from logistics planning to managing the movement of personnel and material via air, sea and land, to analysis and performance reporting. The system supports Health, Safety and Environment compliance measures and has comprehensive personnel management and personnel-on-board tracking. Essentially, iLogistics helps you gain end-to-end control over upstream oil and gas logistics. operations

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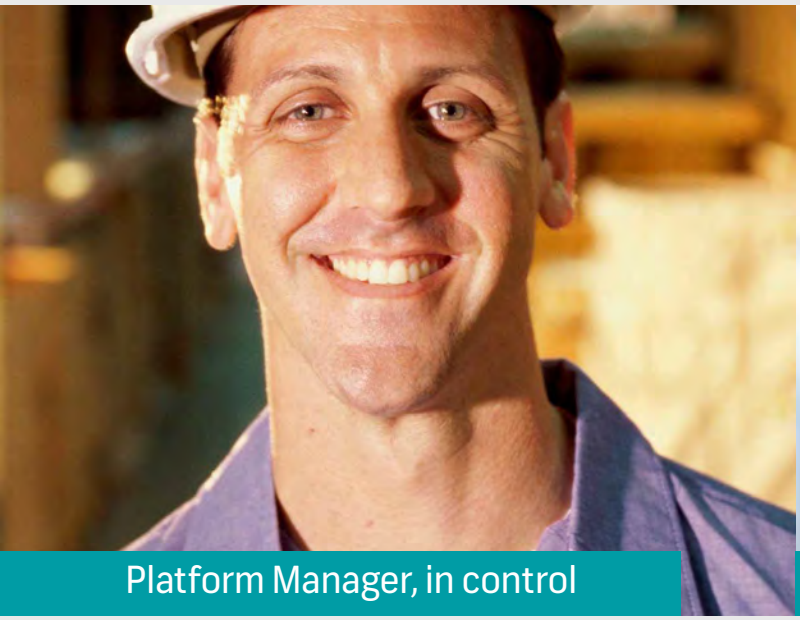
## Logistics Manager, in control

Be in control: Ad-hoc logistics support is expensive, inefficient and at times even dangerous due to insufficient planning. iLogistics has helped us manage our resources better. Using bespoke systems and spreadsheet solutions, we have never been able to manage resources in a proactive and comprehensive way. iLogistics helps us achieve ideal levels of planning, optimization, reporting, safety and compliance. Truly, in a large organization like ours, it's a shared vision from the logistics leaders globally.

## Logistics Vendor, in control

Be involved: iLogistics serves as a perfect solution for service providers who do business with multiple oil and gas companies. It facilitates seamless on-time delivery of service, irrespective of size and scale, meeting the demands of large E&P (Exploration and Production) companies and small operators alike. iLogistics provides a safe, secure and user-friendly interface to manage resource demands raised by our clients, enabling us to meet the stringent service levels demanded by clients in a cost-effective manner.



## Platform Manager, in control

Be secure: iLogistics makes management of personnel on the platform easier and more efficient than ever. Its integrated approach makes crew scheduling, tracking of personnel and training pre-requisites, camp management, bunk allocation, HSE compliance etc. fast and effortless. It's a boon when it comes to emergency management and ensuring the safety of personnel-on-board. Apart from being the most comprehensive solution that we have ever experienced, features like graphical personnel tracking, built-in wizards for crew scheduling, and easy reporting functions are really superior.

## Senior Management, in control

Be informed: Every senior manager asks how we can make business better, reduce opex, and strengthen the bottom line. iLogistics makes our lives easier and enables us to concentrate on contributing to the bottom line while reducing exposure to HSE issues. It not only ensures optimum resource usage, but also takes good care of our people. Judging from the point-of-view of operational efficiency leading to logistics excellence or from the ROI perspective, I have seen nothing that can match iLogistics. I think it is on its way to becoming a way of working in the oil and gas industry.

# Arguably, the finest investment any global oil and gas corporation can make.

iLogistics enables logistics excellence. It gives you end-to-end control of all aspects of logistics — planning, scheduling and tracking — while reducing opex and exposure to HSE significantly. Doing completely away with bespoke applications and spreadsheet solutions, it integrates logistics operations under one system and establishes one way of working, globally.

## Proactive and comprehensive logistics

In an industry that depends on logistics excellence significantly for safe, effective and efficient project execution and operations, how do you ensure you achieve optimal resource utilization at the best costs and the best safety levels possible, every day? Certainly, it takes an approach substantially more comprehensive than dozens of different applications and spreadsheet solutions stitched together. A proactive approach that brings logistics customers and their service providers together to enjoy full-scope logistics and infrastructure support that spans assessment, planning, optimizing and delivery of resources across the petroleum life cycle. iLogistics was developed to address this need. And nothing can match its ability to give you seamless control.

## One system, one way of working

Across the world for several top oil and gas corporations, iLogistics is a way of working. For logistics managers, it's a system that "helps them live an easier life", and for business managers at various levels, it's a solution that enables them "to concentrate on contributing to the bottom line and reducing exposure to HSE issues". Be it enhancing your resource sharing capabilities, reducing exposure to HSE incidents, ensuring seamless travel solutions, tracking of all resources, monitoring global KPIs, reducing direct costs, or helping capture and share knowledge, iLogistics empowers you with one system and one way of working towards one philosophy: excellence through optimum control.

## The best opex control and ROI

iLogistics helps you realize the full power of optimum planning and resource management, amply demonstrated in opex. As proven by the experience of several iLogistics users globally, it helps you save a lot more in opex than the capex required to deploy it in the first year.

This is achieved by:

- Sharing resources with other operators / companies
- Optimizing the number of trips
- Optimizing flight and voyage schedules
- Fully utilizing transport equipment
- Bringing more consistency & accessibility to your information
- Optimizing equipment rentals

## Safety and environment protection

Safety at workplace is emerging as one of the key areas of risk management and regulatory compliance in the exploration and production companies. Statistics from the industry reveal that for every 10,000 unsafe acts there are 1,000 near misses or incidents that require first aid, 100 restricted work cases requiring medical treatment only, 10 lost-time accidents, and ultimately, one fatality. This trend is influencing the way the industry is looking at traditional systems for monitoring environmental health and safety compliance systems at workplace.

The traditional systems, which were designed to be point solutions at a plant-level, are giving way to enterprise-wide safety management systems. The new-generation systems need to comply with the standard regulations and support the framework, while providing enterprise-wide visibility into incidents and trends, corrective actions and process metrics.

iLogistics offers simple and state-of-the-art features that enable oil and gas companies to stay on track in their effort to establish and implement measures for safety and environmental protection. Key capabilities of the iLogistics solution include the ability to capture, report and evaluate incidents; provide information on hazardous material; initiate and implement containment, corrective and preventive actions and powerful reporting besides facilitating analytics by a variety of parameters such as by incident, by date and by division.

iLogistics provides real-time visibility into key process indicators apart from generating email-based alerts and notifications to ensure prompt response.

## Key Benefits

- Automated flight scheduling based on operational demand and constraints
- Optimized asset utilization through simulation and forecasting
- Integrated commercial and in-field travel management
- Reduced operational aviation spend
- Positive traveler experience

# iLogistics Aviation Module

## ilogistics AVIATION for intelligent fixed wing & helicopter operations

iLogistics Aviation enables efficient planning, scheduling, execution, monitoring and reporting of aviation operations resulting in efficient transfer of people & material. An easy to use graphical interface and integration with real time tracking devices results in improved safety and visibility of operations.

**Improved planning horizon:** Enables planners to consolidate their demand plan and daily Fly-in/Fly-out plan 1-2 years in advance. Mathematical algorithms enable simulation of Demand vs Supply to find the optimal capacity levels considering regular/peak demands. Seamless connection with Integrated Activity Planning (IAP) tools enables in accurate forecasting of people & material demand.

**Easy mobile journey bookings and authorizations:** Easy multi modal integrated journey and accommodation bookings as simple as 1-2-3 from mobiles & tablets. Configurable multi-level rule based authorization engine enables compliance to travel policies & standards.

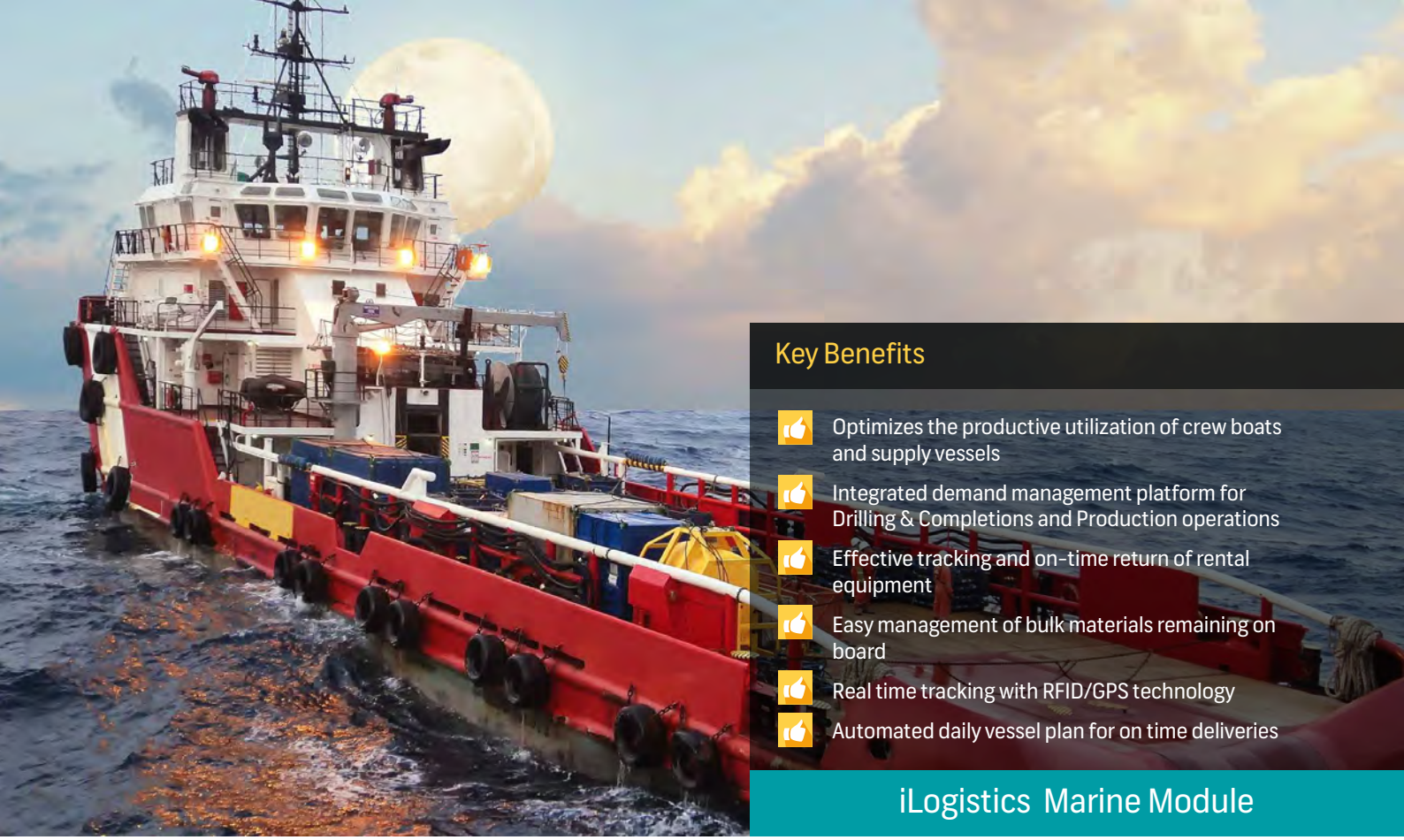
**Improved fleet utilization:** Mathematical modelling algorithms enable optimization of daily flight plans, routing and fuelling based on demand & historic data. Easy sharing of seats between facilities, departments and external operators increase seat utilization & reduces per seat cost.

**Increased productivity:** Automated bookings based on crew rotation schedules, travel agent integration, automated passenger confirmations based on configurable rules & seat maps, comprehensive alert framework, QR code based passenger & cargo check-in, IATA compliant boarding pass & baggage tags, Flight information display system (FIDS) with real time weather & communication alerts, automated month end chargeback to ERP systems enable seamless information flow and increased productivity.

**Effective disruption management:** Last minute flight unserviceability/passenger changes are effectively managed without disrupting the day's plan. Comprehensive waiting list features helps to reduce costs associated with no-show & bumped passenger.

**Safety compliance:** Enforce strict compliance to training certifications (HUET, BOSIET, Medical...), TSA No Fly List, Drug & Alcohol compliance, work permit authorizations and minimum rest period.

Simple interactive mobile bookings and intuitive & intelligent planning dashboards



## Key Benefits

- Optimizes the productive utilization of crew boats and supply vessels
- Integrated demand management platform for Drilling & Completions and Production operations
- Effective tracking and on-time return of rental equipment
- Easy management of bulk materials remaining on board
- Real time tracking with RFID/GPS technology
- Automated daily vessel plan for on time deliveries

## iLogistics Marine Module

# ilogistics MARINE for efficient offshore personnel and material movement

iLogistics Marine offers a single platform to plan, schedule, execute and track people & material movement by boats. Comprehensive material management features for end to end material logistics - material ordering, transportation request, packing, containerization, lift planning, IMDG compliant checks, dispatch & receipts. Offline electronic captain logs & synchronization ensures transparency in vessel operations. Standard marine cost allocation algorithms and automated chargeback to ERP systems saves time & effort with analysing invoices from service providers.

**Long term demand planning:** Material look ahead capabilities enables long term material demand planning and effective engagement with suppliers. Seamless integration with Integrated Activity Planning (IAP) tools provides early visibility to material demand. Optimization algorithms enable long term forecasting of vessel requirements and run what-if scenarios to identify optimal capacity.

**Optimized vessel deck & route planning:** Mathematical modelling algorithms and easy to use graphical interface enable planners to generate optimal daily vessel plans and simulate deck loading plans (considering deck space, tonnage, loading sequence, number of lifts and other operational constraints).

**Manage bulk remaining on board (ROB):** Real time tracking of below deck materials on board including fuel, methanol, drill water, fresh water, liquid mud and dry bulk - provides operational visibility to offshore & onshore stakeholders

**End to end vessel tracking:** Interactive AIS integrated map based tracking, marine control tower to support dynamic operational decision making, push alerts on deviations from planned route & optimal speeds, vessel fuel consumption tracking and business intelligence driven dashboards enables compliance to marine safety, reliability and efficiency performance parameters.

**Effective backload & waste management:** Comprehensive backload management feature enables tracking and timely return of materials including high cost rentals. Waste management capabilities integrated with land logistics ensures effective tracking and transfer of waste from cradle to grave.

Efficient planning of vessels through a user friendly and interactive graphical interface

## Key Benefits

- Increased safety of operations through optimal planning, risk assessment and real time monitoring of journeys
- Reduced waiting time for passengers at bus terminals & train stations
- Easy management of convoy trips to support in-field security and safe journey management
- Improved trip utilizations with effective sharing of seats
- Achieve sustainable business transformation by reducing manual interventions and implementing standard workflows

## iLogistics Land Module

# ilogistics LAND for effective ground transport of personnel and materials

iLogistics Land puts you in total control of people logistics by bus, train & cars and material logistics by trucks. It provides extended capabilities to plan, schedule, optimize, execute, analyze, track and report personnel & material movement in a safe and optimal manner.

**Easy self-service bookings:** Allows passengers to manage their ground transport bookings (for pool cars, taxis, buses and trains) without the need for intermediate liaising administrators. Comprehensive workflow framework allows organizations to configure business rules (cut-off times, multi-level authorization and competency compliance) to enforce travel policies and standards.

**Integrated ground transport operations:** Efficient and coordinated ground transport through seamless integration with flight & boat schedules. Automated scheduling of bus shuttles based on flight arrivals/departures reduces manual interventions.

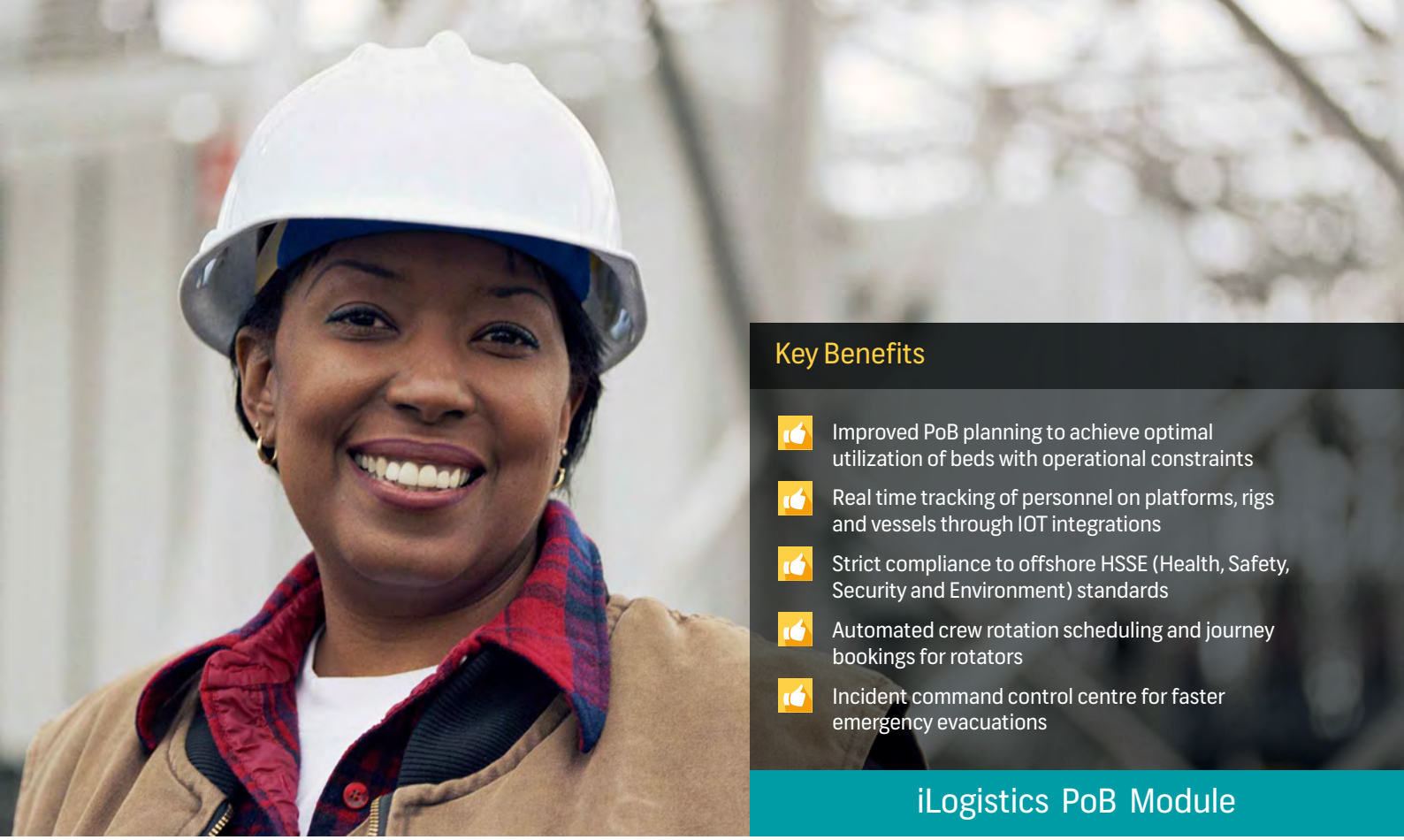
**Safe journey management:** Dynamic risk assessment capabilities enables schedulers to identify and mitigate journey risks in advance. Seamless integration with Global Positioning System (GPS) and In-vehicle Monitoring System (IVMS) enables real time monitoring of journeys and driver behavior.

**Improved fleet management:** Comprehensive fleet management features help to manage vehicle certifications and maintenance records - ensuring reduced asset downtime. Predictive analytics helps to translate real time vehicle data to valuable insights to determine a future potential malfunction and plan for maintenance.

**Automated fuel tracking:** Fuel card management and integration with metering systems provides greater visibility to fleet fuel consumption and prevents pilferage.

**Flexible operating models:** Supports self-operated, 3PL and 4PL models by allowing data interface with enterprises, enabling real time visibility and KPI reporting.

Check-in app enabling hassle free passenger check-in and ticket printing



## Key Benefits

- Improved PoB planning to achieve optimal utilization of beds with operational constraints
- Real time tracking of personnel on platforms, rigs and vessels through IOT integrations
- Strict compliance to offshore HSSE (Health, Safety, Security and Environment) standards
- Automated crew rotation scheduling and journey bookings for rotators
- Incident command control centre for faster emergency evacuations

**iLogistics PoB Module**

# ilogistics POB for smart offshore accommodation management

iLogistics PoB provides superior personnel-on-board management capabilities to ensure safe travel and stay of personnel on offshore assets and remote land locations. It takes into account personnel preferences, safety mandates and supports real time personnel tracking and emergency evacuation.

**Optimized crew rotation plan:** Machine learning algorithms enable automated generation of optimal rotation schedules and journey bookings for rotators from integrated activity plans (drilling, production, construction, shutdown maintenance).

**Streamlined PoB management:** Automated allocation of bunks, muster points, job, shift, emergency roles, lifeboats based on defaults or planned allocations. Configurable user profile and PoB settings bring a high level of intelligence into day-to-day PoB operations. Multi-modal integration with aviation, marine and land modules ensures seamless information flow for better planning and tracking of passenger movement.

**Safety Compliance:** Ensures strict compliance to offshore HSSE (Health, Safety, Security and Environment) standards by enforcement of rules and compliance to policies on Personal Protective Equipment (PPE), Max Stay Duration, Drug & Alcohol Policy, Minimum Rest Period, Medical, HUET, BOSIET, Max PoB, Safe manning levels, and safety courses/certificate validations. Efficient incident profiling and risk assessment matrices to reduce exposure hours and LTIs.

**Accurate real-time PoB tracking:** Automated and real time PoB tracking at offshore and onshore assets through IOT integration with signals from wearables and Smart badge/RFID tags.

**Rapid emergency response:** The centralized command and control dashboard gives a consolidated view of PoB on all offshore assets in a field/block and enables to assess the readiness of the facility for evacuation. Setting evacuation priorities, essential status and automated helicopter & crew boat allocations and centralized dashboard enables the platform manager and response teams to quickly coordinate during emergency and ensure safe evacuation.

iLogistics PoB provides accurate PoB count across all offshore assets

## Key Benefits

- Enhanced capability to forecast future accommodation capacity
- Increased utilization of owned/leased facilities
- Streamlined operations through RFID/Badge/Self Check in kiosks enabled automated check-in
- Accurate month end cost accounting & invoicing

# iLogistics Camp Module

## ilogistics CAMP for efficient onshore accommodation management

iLogistics Camp, a proven end-to-end accommodation management solution eliminates redundant manual operations and ensures optimal utilization of onshore accommodation facilities. It enables planning and scheduling of rotations, facility management, optimized bed allocations, HSSE validations, costing and reporting.

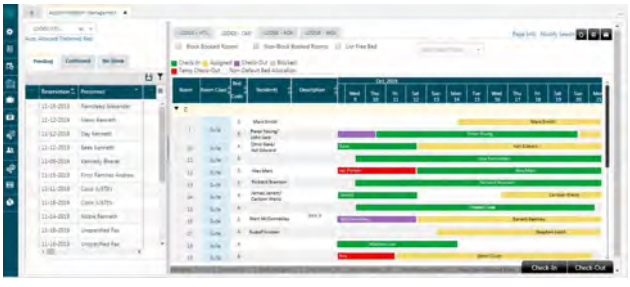
**Improved forecasting and utilization:** Enables planners in forecasting of future capacity requirements by analyzing occupation history and long term camp schedules created. Capacity planning capabilities powered with mathematical modelling techniques enable simulation of demand vs supply to find the optimal capacity levels and generate bed assignment plans - enabling to improve camp utilization across owned and leased facilities.

**Seamless journey management Integration:** Enables in providing a single integrated itinerary for end-to-end travel (commercial/charter/helicopter + bus/car) and camp accommodation. Facilitates effective disruption management by providing early visibility during bulk travel changes & flight cancellations, enabling integrated bed allocation changes.

**Enhanced facility management services:** Comprehensive housekeeping management capabilities enables to keep track of housekeeping schedules, track maintenance status and provides real time room status to camp managers. Meal tracking features enables in accurate accounting and tracking of meal service traffic.

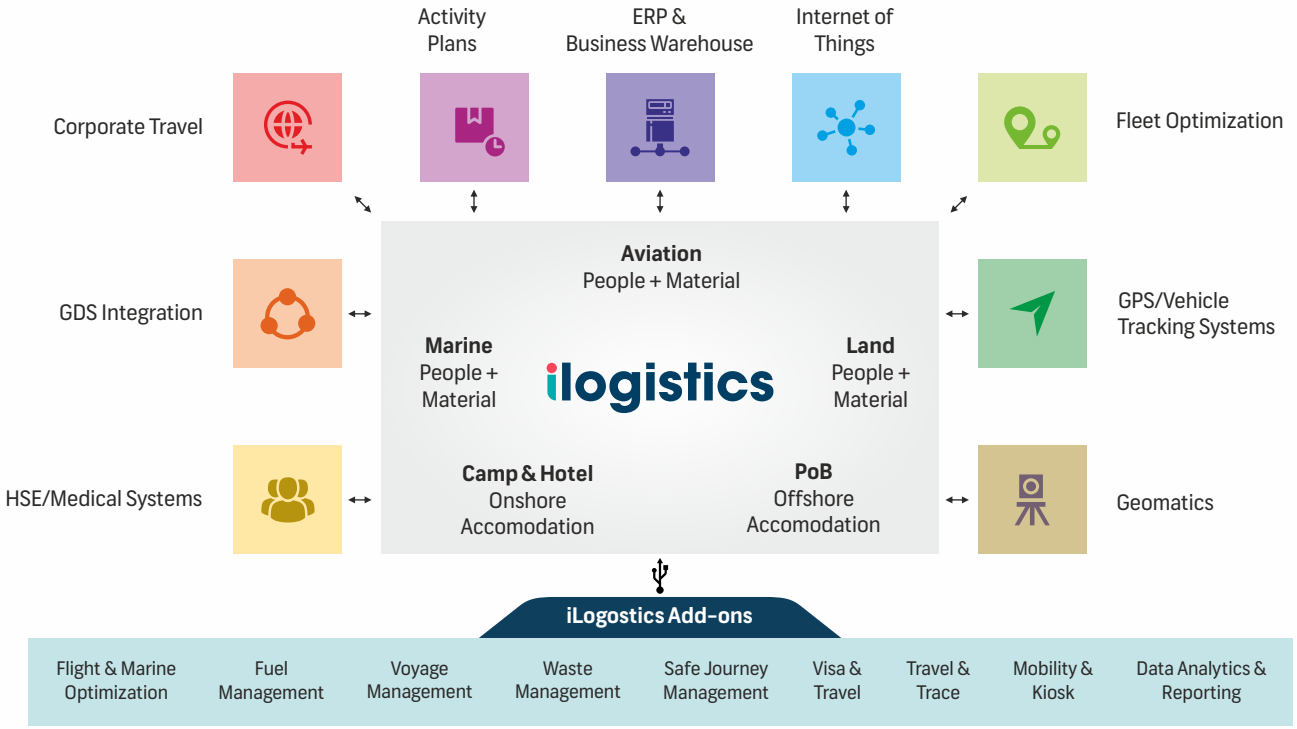
**Efficient camp operations:** Automated bookings based on crew rotation schedules, automated bed plans for Fly-in/Fly-out rotators, automated passenger confirmations based on configurable rules, block booking based on forecasted demand, automated check-in/check-out through QR Code/ RFID/Smart Badge/Self Check-in kiosks streamline the handling of large volumes and offers quick turnaround times. Comprehensive cost accounting features enables to define room tariffs, invoice management and automated month end chargeback to ERP systems.

**Safety compliance:** Ensures strict adherence to safety standards and guest security through safety orientation tracking, training compliance checks, do not return list management, gender restriction room validations and role based access control.



Enriched and Interactive graphical interface for easy bed planning and accommodation management

# iLogistics Integration Capabilities




# End-to-End Logistics Operation in iLogistics

iLogistics integrates diverse aspects of upstream operations in to one comprehensive system, facilitating seamlessness in planning, tracking & operations and ensuring compliance.

**IBS software** delivers SaaS solutions that manage mission-critical operations for customers in the Aviation, Tour & Cruise and Hospitality segments. IBSs' solutions for the Aviation industry cover fleet and crew operations, aircraft maintenance, passenger services, loyalty programs, staff travel & air-cargo management, making it the enterprise with the widest range of offerings for the aviation industry. IBS also runs iDemand Gateway – the world's largest distribution network for leisure hotels. For the tour and cruise industry, IBS provides a comprehensive guest centric, digital platform that covers onshore, online, and onboard solutions for the modern tour and cruise provider. IBS is a Blackstone company and operates from 10 offices across the world serving 170+ customers. Further information can be found at **www.ibsplc.com**

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