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SURGE MARINE

Automating Empty Container Yard Operations

PAN INDIA

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OVERVIEW

Surge Marine Services Pvt Ltd is a leading provider of marine & offshore support services for global companies. Catering to shipowners, operators & energy companies.

With a commitment to safety, efficiency & innovation, the company delivers high-quality maritime solutions tailored to client needs.

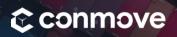## SHIPPING LINES - MSC, OOCL, ASYAD

BACKGROUND

Client: Surge Marine Services Pvt Ltd
Industry: Logistics & Supply Chain
Inception: 2016
Locations: 16 Pan-India Yards
Volume: 10,000+ Containers/Month
Product: Empty Yard

PROBLEM STATEMENT

Absence of digital system for container inspections; reliance on paper-based processes.

Manual CODECO file generation increasing human dependence & errors leading to missing timelines & schedules.

MSC being major customer with unique process flow for repair with global standards. (WESTIM/DESTIM/REPAIR EDI) impacting reputation with shipping line & inventory errors as well delaying approvals.

Absence of real-time dashboards & visibilty to management as well to ground staff on inventory, repairs & billings.

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OUR APPROACH - 1 TOWARDS THE PROBLEM

1.Deep-Dive Requirement Analysis:

Conducted on-ground workshops with Surge Marine's operations team, surveyors & estimators to map pain points.

Identified critical gaps: manual surveys, EDI delays, OVA/OVMNR complexity, & reporting bottlenecks.

2.Designed the Software:

Mobile App: OCR-based container surveys with image/ remark & meta data.

Unified Dashboard: Single interface for gate control, MNR/ OVMNR, inventory, parking & invoicing.

Auto-EDI Engine: 24x7 Schedules for CODECO/WESTIM/ DESTIM file generation & submission.

3.On-Site Validation & Iteration

Deployed a beta version on **Jan 2024** for real time testing at Surge Marine yards.

Incorporated feedback to refine:

MNR Workflow: Simplified estimate creation for MSC's OVMNR program.

Gate Automation: Auto-pass generation with shipping line compliance.

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4.End-to-End Integration:

Connected all yard activities under one ecosystem:

Survey-to-Repair:
1. Mobile app
2. MNR estimates
3. EDI approvals.

Gate-to-Invoice:
1. Auto-gate passes
2. Real-time inventory
3. AI-driven billing.

BI Dashboards:
Custom reports for stakeholders (daily/monthly/quarterly).

5.Management & Training:

Onsite BA & QA Teams:
Worked alongside Surge Marine staff to ensure smooth adoption.

Role-Based Training:
Tailored sessions for surveyors, estimators & admins.

6.Go Live:

Pan India go live on April 2024

+30 Users
across India for survey

+5 management team
members active on platform.

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MOBILE APP SOLUTION

Mobile App for Container Surveys

Instant Job Creation:
Add container details
(number, type, size) in seconds.

OCR Technology:
Auto-capture container numbers via
camera scan (no manual entry).

Comprehensive Damage Documentation:
- Store 120+ high-resolution
  images per survey.
- Attach custom remarks to each
  image for precise damage reporting.
- Before/After Survey Mode:
  Track repair progress visually.

MNR/OVMNR Estimates On-the-Go:
- Create & submit repair estimates
  (WESTIM/DESTIM) directly from
  the field.
- Sync with MSC's portal automatically.

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WEB APP SOLUTION

Fully Automated Workflows

Auto EDI & CODECO:
files to be generated as per the scheduler time slot provided by shipping line & auto-send via email

Auto In-Gate Pass:
In-gate Pass have auto created as per the job filled by surveyor along with the in details & company logo

Auto invoicing:
As per inward date triggered the LOLO, Parking & other invoices created automatically as per the Master tariff against each shipping line & the size & type of container.

Centralized Dashboard

Unified Login:
Single platform for surveys, repairs, gate passes & reports.

Customizable Access:
Role-based permissions for admins, surveyors & operators.

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RESULT & OUTCOMES

Operational efficiency achieved:

Single-Window Platform:
manual surveys, EDI delays, OVA/OVMNR complexity, & reporting bottlenecks.

70% Reduction of Manual work:
Automation of EDI, CODECO, gate passes & container survey using OCR, invoicing.

Real-time Dashboard:
- Container status in/out, under repair
- Shipping line-wise inventory (20+ lines supported)
- AI-driven predictive alerts for delays/backlogs.

Centralized Admin Control:

- Role-based access surveyors, estimators, shipping line partners

- All access & rights are reserved against one single admin.

- Under one login admin is able to create their users & provide the access accordingly.

- AI-BI Dashboard & custom report generation.

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CONCLUSION

Conmove's solution BOXYARD transformed Surge Marine's operations from manual, inefficient processes to a fully automated, audit-ready system, improving productivity, compliance & cost savings.

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Wish to Digitize your Yard ?

Call us on!
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