

Fast-track Business Growth by Delivering on the Promise

Increase Safety, Efficiency, and Customer Satisfaction with NEC's Integrated Logistics and Supply Chain Solutions

Transportation and logistics stand among the most evolved industries in the post-pandemic era. Altered customer behaviours, new ordering and delivery channels, personalized interactions, enabled by a new wave of digital technologies, are putting new demands on logistic service providers to disrupt and differentiate in order to thrive in the digital era.

NEC offers a comprehensive suite of cutting-edge logistics solutions, backed by in-depth domain knowledge and technical expertise, to create unified digital platforms that:

-  Automate end-to-end operational flow
-  Streamline exchange of cargo between stakeholders
-  Enable real-time shipment visibility
-  Induce data-driven decision-making

NEC Logistics Solutions

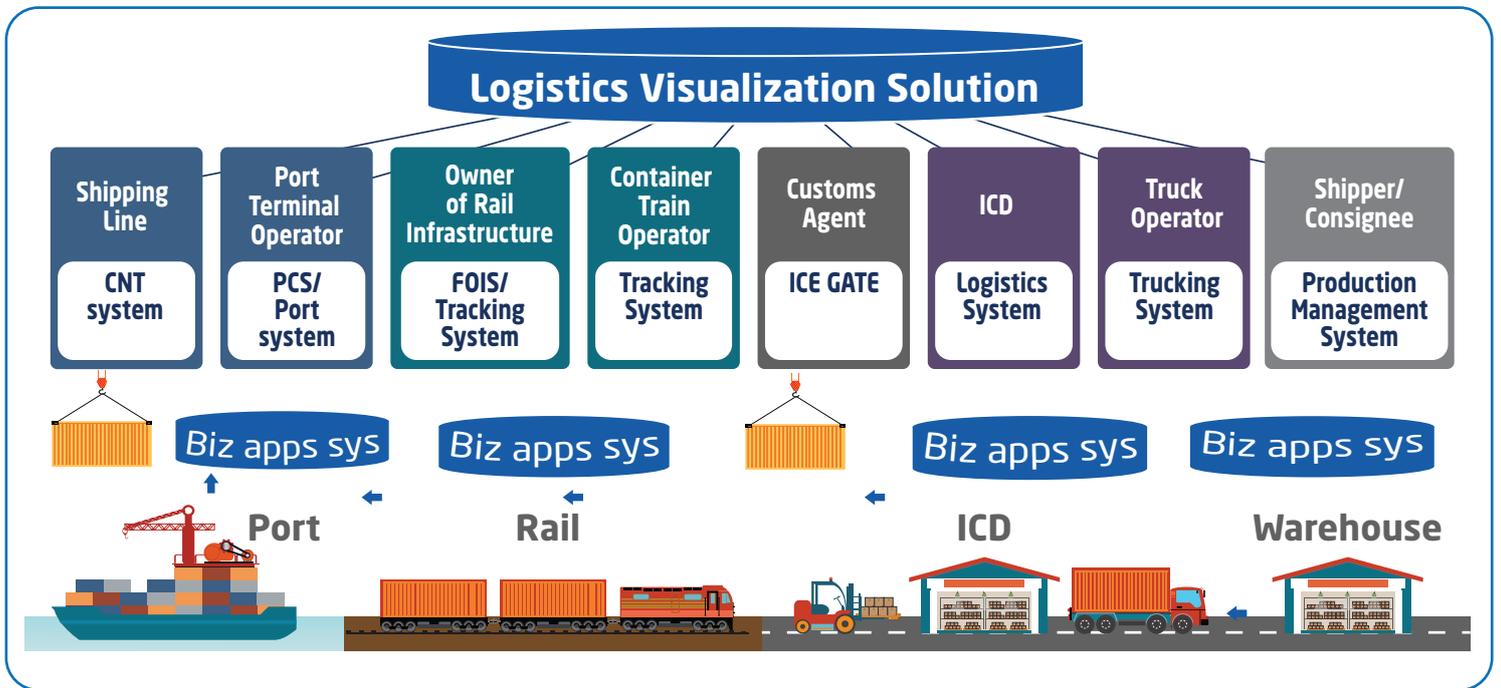
- Logistics Visualization Solution
- Integrated Command & Control Center
- Gate Operating System
- Yard Management Solution
- Warehouse Management Solution
- Touchless Access Control Solution



Logistics Visualization Solution (LVS)

End-to-end Logistics Visualization for Last-mile Delivery

EXIM cycles inevitably confront visibility challenges, affecting the planning and scheduling of activities due to lack of transparency and accountability across the supply chain. NEC Logistics Visualization Solution provides complete container visibility to the stakeholders through a unified data service platform to visualize port-to-door marine container transportation data in India.



Key Benefits

- Complete container visibility
- Real-time tracking with GPS, RFID, and IoT devices
- Estimated time of arrivals/departures of any tagged vehicle to/fro, source and destination locations such as port/CFS/ICD/warehouse/yard/etc.
- Real-time alerts for onroute violations, overspeeding and journey halts
- Historical data of the device and device monitoring - battery, tamper status, etc.

Case Study

Logistics Data Bank (LDB) and Unified Logistics Interface Platform (ULIP)

LDB is a game changing solution that uses Cloud, IoT (RFID technology), and Big Data to integrate the information available with various agencies across the supply chain and provide detailed, near real-time visibility of EXIM container movement through a single window i.e. www.ldb.co.in.

ULIP has been designed to further enhance efficiency and reduce the cost of logistics in India by creating a transparent, one-window platform that provides real-time visibility to all stakeholders - multi-modal transport, and all the existing systems of various ministries, governing bodies, and private stakeholders.

Currently
100% of India's container volume is tracked through LDB

50 mn+ containers tracked using LDB (August 2022)

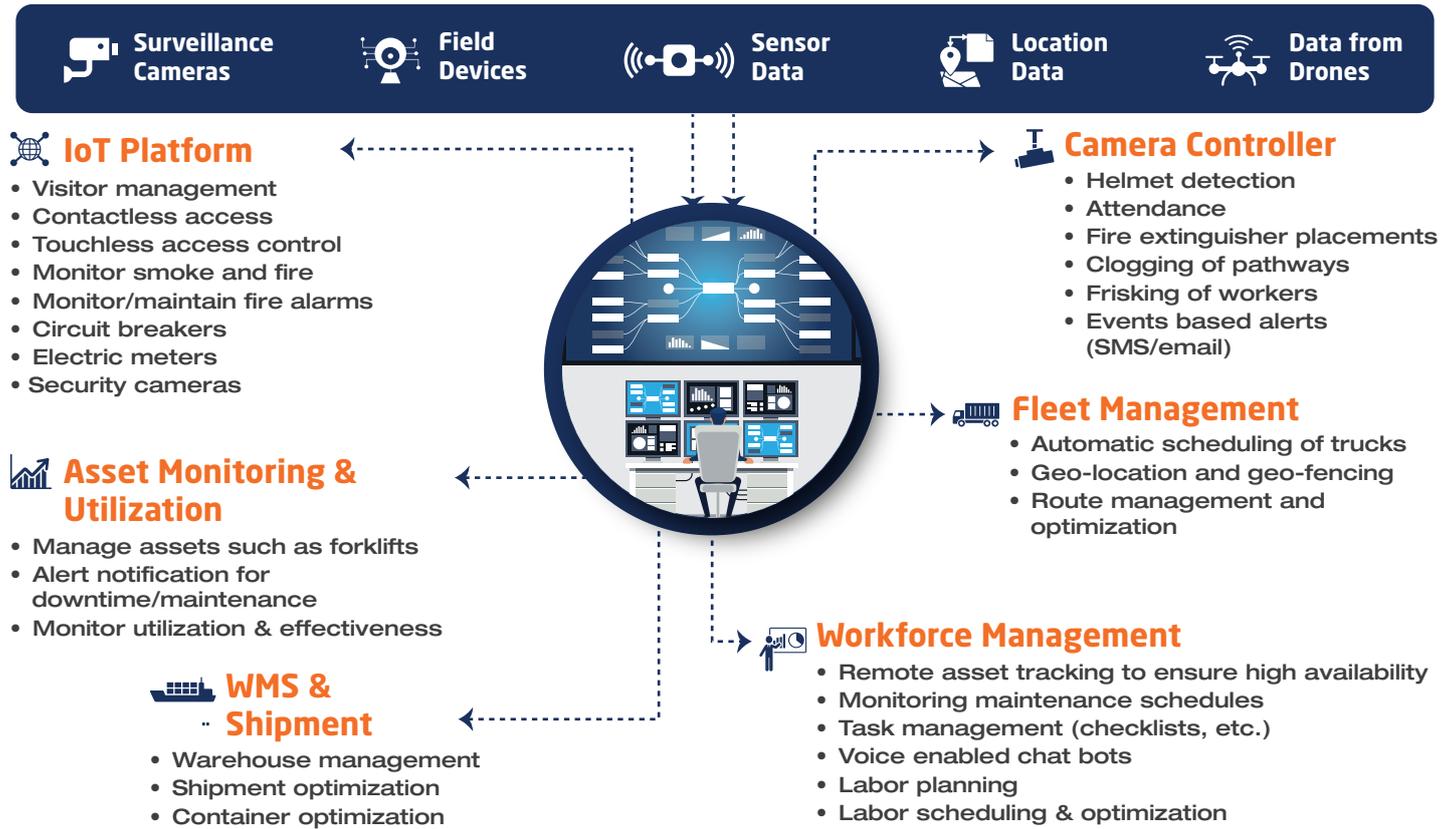


Integrated Command and Control Center Enhancing Incident Management and Resolution by Automating Workflows and Data Retrieval

To transition from a support function to a critical component of an organization's overall profitability, supply chain planning and operations must be powered by robust data management and intelligent analytics.

NEC Integrated Command and Control Center is envisioned to be the core for logistics operations, exception handling, and situation management. It utilizes sensors and edge devices that capture real-time data from multiple utilities and generate appropriate results for stakeholder action.

Capture Real-time Data from Multiple Edge Devices in Multiple Formats



Key Benefits

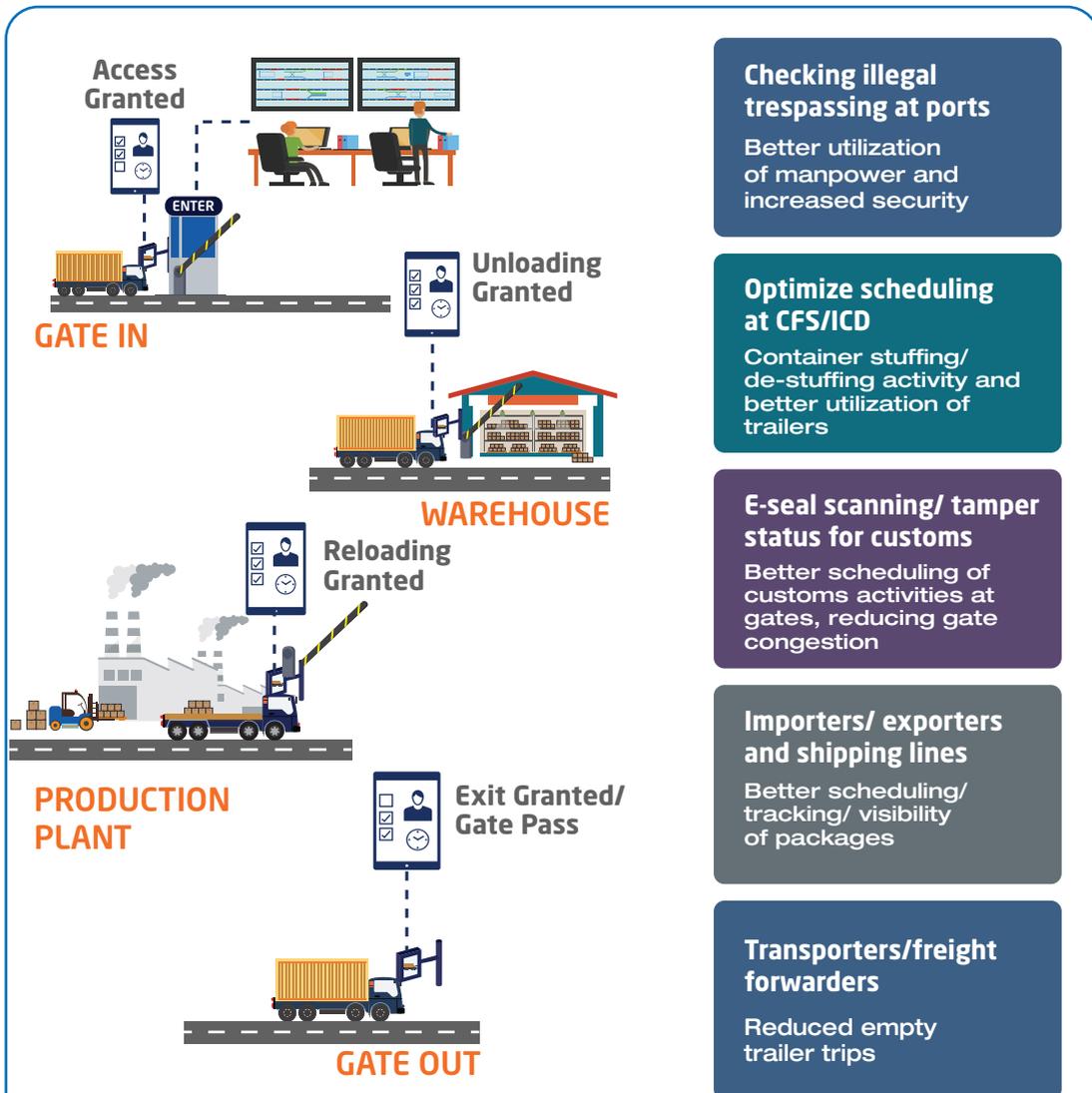
- Acts as the “nerve center” for operations management integrating data from various applications
- Enables administration to do more with less
- Reduces the complexity of dealing with multiple systems/applications
- Day-to-day exception handling and disaster management
- Provides contextual insights by processing complex data sets at an aggregated level to derive intelligence for improved planning and policy making



Gate Operating System (GOS)

Simplifying Gate Processes by Automating Vehicle, Cargo, Document Flow

An intermediary system that communicates with customer's different systems to completely automate gate operations and eliminate lane congestion and burdensome manual paper-based verification at the Port/CFS/ICD.



Checking illegal trespassing at ports
Better utilization of manpower and increased security

Optimize scheduling at CFS/ICD
Container stuffing/ de-stuffing activity and better utilization of trailers

E-seal scanning/ tamper status for customs
Better scheduling of customs activities at gates, reducing gate congestion

Importers/ exporters and shipping lines
Better scheduling/ tracking/ visibility of packages

Transporters/freight forwarders
Reduced empty trailer trips

Key Benefits

- Reduced clearance time and gate congestion
- Automated gate operations and improved productivity
- Enhanced security and safety of operations
- Reduced carbon footprint and fuel wastage
- Better EoDB and LPI rank

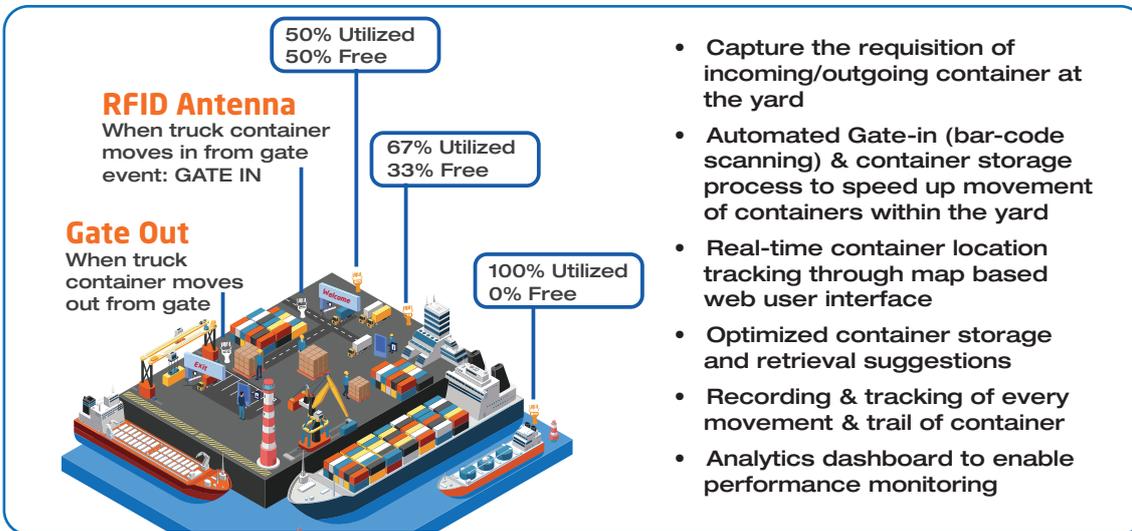
- Automated gate operations
- OCR enabled technology
- FRS enabled access control module
- Exception management system
- Seamless integration with the host/Terminal Operating Systems (TOS)

- End-to-end solution includes design, implementation, and configuration - network, server, OS, HA, DB, backup & monitoring
- Value-added services like big data analytics and helpdesk services
- Device monitoring - battery, tamper status, etc.



Yard Management Solution (YMS) Simplifying Yard Processes

An efficient yard management system that tracks the movement of trucks and trailers to provide end-to-end container visibility in real-time to optimize container retrieval, space utilization, billing, and schedule planning.

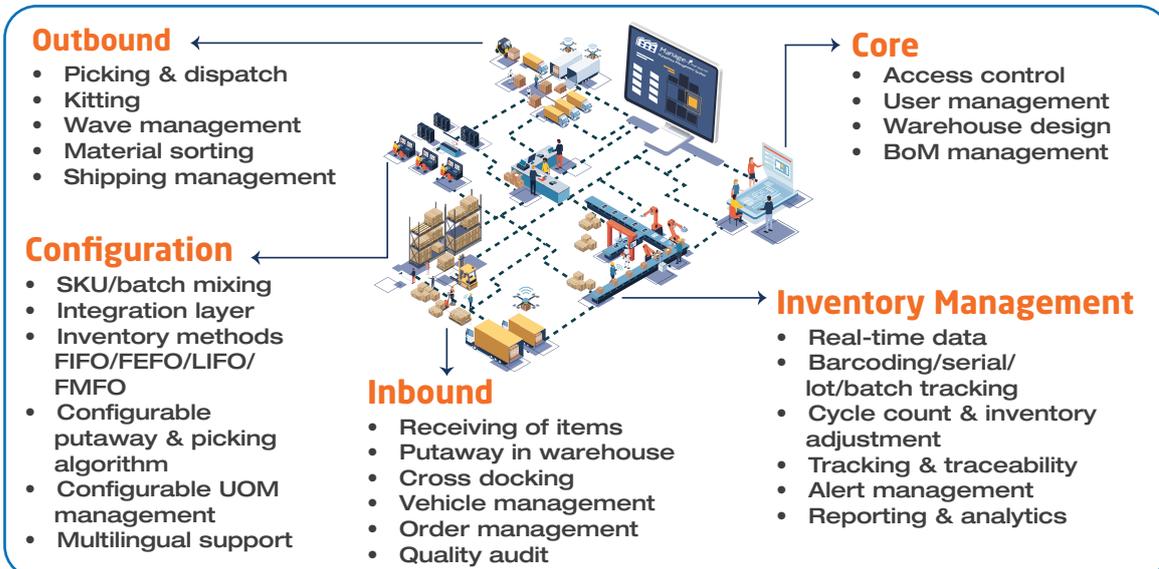


Key Benefits

- Improved operational efficiency and control
- Optimal resource planning and utilization
- Reduced labor and maintenance costs
- Reduced carbon footprint and fuel wastage
- Informed decision-making

Warehouse Management System (WMS) Your Window to Smart Warehouse Management

An on-prem/cloud-based flexible, integrated and customizable solution catering end-to-end warehouse management needs such as inbound & outbound operations, inventory, and resource management along with integration support.

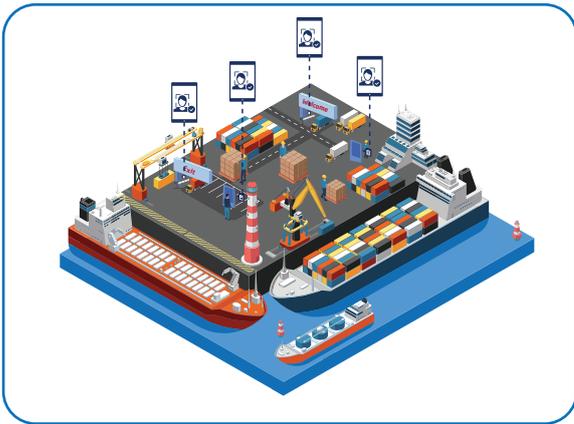


Key Benefits

- Optimized storage and space utilization
- Lower labor costs and operating expenses
- Improved inventory visibility
- Effective shipping management
- Real-time decisions based on alerts
- Avoidance mis-picks, wastage, and accidents

Touchless Access Control Solution

Building Safer Spaces



NEC's state-of-the-art Face Recognition System (FRS) based access control solution enables touchless entry to doors, facilities, and accurately monitors the movements of staff, employees, workers, watch-listed entities, common people across any facility, raises the requisite alerts/notifications based on business needs, and provides the required authorizations across different locations.

Key Benefits

- Maintain hygienic, safe and clean working environment
- Reduce person-to-person contact via over-the-air credentialing
- Minimize personal interactions in managing lobbies and visitors
- Provide real-time building occupancy data to help with compliance and social distancing

Why Partner with NEC



Strong Domain Expertise



Consulting Engagement
to understand operational issues and provide customized solutions



High Quality
industry proven solution



Implementing Point Solution
for operational excellence



Global Best Practices



Strong Technical Capabilities
for managing large scale enterprise projects

About NEC

NEC is a leader in the integration of IT and network technologies and brings more than 120 years of expertise in technological innovation to provide solutions for empowering people, businesses, and society. Headquartered in Japan, NEC started its operations in India in the 1950s and expanded its business from telecommunications to public safety, logistics, transportation, retail, finance, unified communications, and IT platforms, serving across governments, businesses, and individuals. NEC Logistics Solutions help streamline operations, save costs and optimize resources across industries.

NEC

Fortune Global 500 ICT Company

1899
Established

160+
Countries

109K+
Employees

49K+
Patents

For further queries & demonstration, please contact

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