

# Mojix STAR System Brings New Level of Visibility and Precision to Port Operations



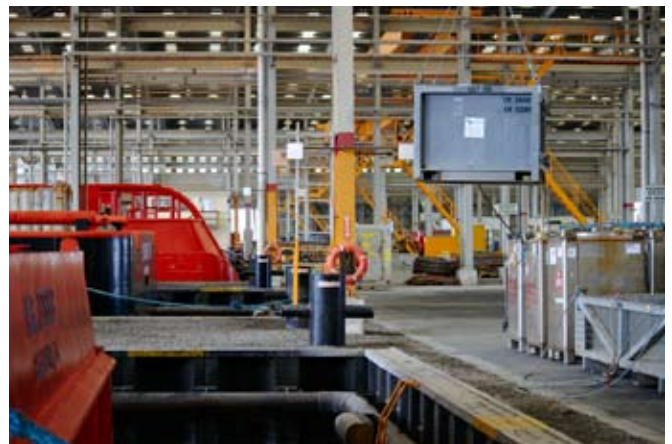
Mojix STAR system demonstrates gains in operational efficiency for Edison Chouest Offshore, a leading provider of integrated supply management for the oil and gas industry drilling, production, and construction projects in deepwater and shelf locations throughout the Gulf of Mexico.

## RFID Initiative to Lower Costs and Mitigate Risks

Edison Chouest Offshore, C Logistics Division, a leading provider of supply by sea operations, is implementing RFID initiatives to support their ability to maximize efficiency, reduce cost and solve the critical issues of fuel, staging, manpower, space, loading, scheduling and logistics for oil drilling and production operations in the Gulf of Mexico. The firm has consolidated all aspects of in-port service, offering a one-stop service capability that expedites vessel and material movement, and administers in-port staging and storage operations. Passive RFID evaluation was undertaken to improve ship loading management in large staging areas of materials and supplies for re-supply vessels in slips at a multi-use Port facility that serves numerous deep water structures. Supplies range from liquid bulk commodities such as oilfield fluids, heavy waters, cement, and fuel, to machinery, pipe, specialty tools, dry bulk, food, garbage, and personnel.

The goals of the RFID initiative are to lower costs and mitigate risks associated with a number of longstanding challenges in port staging operations including:

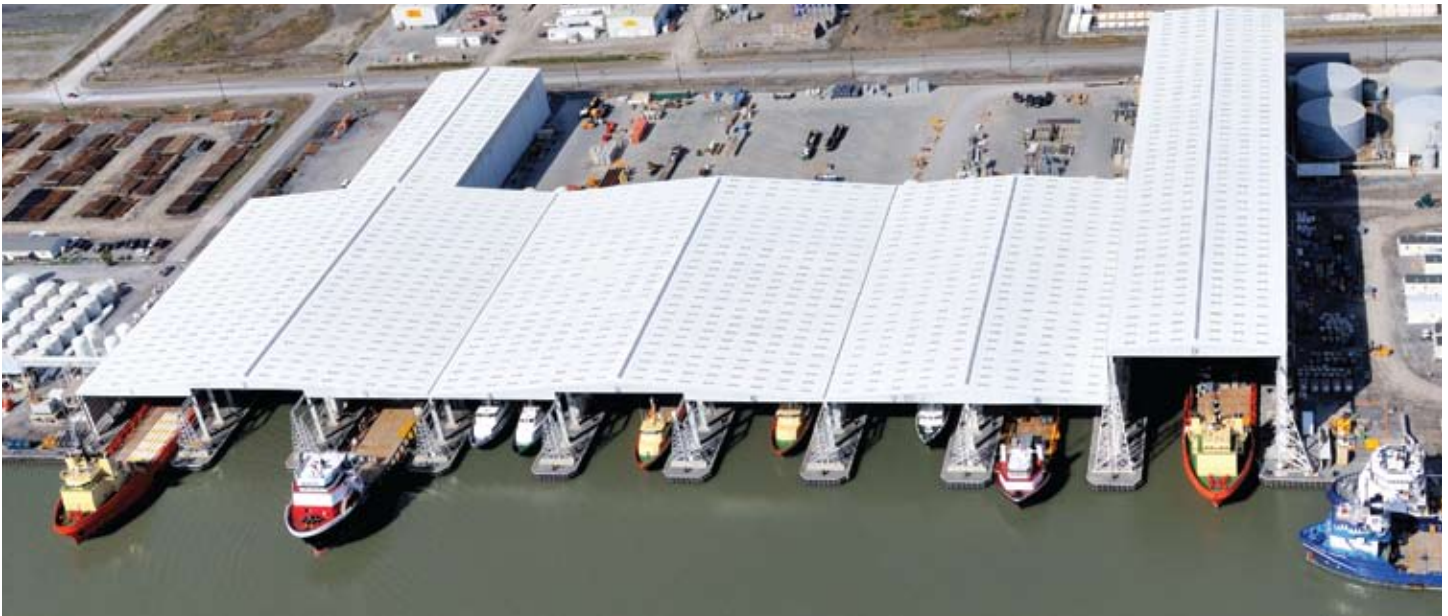
- Lost or misplaced pallets, containers, rental equipment, drill equipment
- Inventory accuracy for vendor staging areas
- Improved customer service delivery and time of processing through the port



## Challenges of Visibility to Flow of Materials and Goods

A passive RFID assessment was defined with the goal of demonstrating that tagged assets could be tracked to pre-determined zones reliably, to enhance the visibility and understanding of material flow and improve ship loading in asset staging and loading areas. Testing determined that tagged assets could be identified entering a slip, staged in the slip, being loaded onto a ship, and leaving the slip. Tagged assets were tracked and located at entry until the assets were either loaded aboard ships or left in the coverage area.





### **Mojix Enables Real-Time Location with Passive RFID Tags**

The Mojix STAR receiver was deployed at C Port 2 during the assessment to read and locate tagged assets in a coverage area that included the entire 9 slips, and since has been expanded to a full deployment of 18 slips across C Port and C Port 2. Mojix eNodes are placed to provide energy to passive RFID tags in the primary staging and loading areas, which serve as exits and entrances to the slips. Several tag types are used including metal mount existing passive tags, next generation passive tags, and battery-assisted tags mounted to assets.

The Mojix STAR system enables excellent asset visibility throughout the slip operation, delivering several key capabilities:

- Assets can be tagged in such a way as to be readable and excitable
- Tagged assets can be read as they enter or exit a slip through doors
- Tagged assets can be read as they are staged and loaded onto ships
- STAR receiver read range performs at specification, reading tags at 600 feet
- The STAR system can be installed quickly and scales easily
- A Mojix enabled RFID Real Time Locating System (RTLS) can be utilized using low cost passive tags

### **Automatic Inventory Management**

The Mojix solution is well suited to Port operations. Real time location capabilities throughout the port operation allow for automatic data collection of inventory. Combining the capabilities of real time location systems, with the unique ability to utilize passive and battery assisted passive tags, Mojix provides a system which:

- Provides the location of all tagged assets within the coverage area
- Reduces total cost of ownership as compared with other tracking systems due to the economics of Mojix solutions and the architectural advantages of a centralized receiver with distributed excitation
- Reduces the cost of ownership as compared with other real time location systems
- Provides an RFID environment that can be scaled from basic large zone coverage to very accurate location information

Data collected by the Mojix system is passed to the C-Logistics proprietary software, Triton, a cargo and logistics application, which is used for services to multiple oil and gas customers. Real-time and past reporting of inventory, movement history, vendor and ultimate consuming customer location is provided by Triton and data is backed up and stored indefinitely. Expansion is also planned to develop and incorporate documented manifests that are required for over-the-road and ocean going vessel movements.



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