### Case Study 1: BI / DWH Tool to analyze Performance of Terminals across Globe

<table>
<thead>
<tr>
<th>The Client</th>
<th>Dubai Ports World, Dubai</th>
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</thead>
<tbody>
<tr>
<td>The challenge</td>
<td>Build solution to analyze performance of business across various container terminals over a common measurable parameter</td>
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<tr>
<td>The Solution</td>
<td>Architect methodology to assess the performance of business through various parameters; Designed program to capture data from existing sources in the desired format; Developed web based application using OO techniques and implemented in ASP.Net over Oracle 10G platform; Incorporated What-If scenarios to support decision making over improvisation of business across various modalities; Deployed and trained users across 49 container terminals spread all across the globe.</td>
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<tr>
<td>Benefits</td>
<td>Decision making tool supporting information gathering from various container terminals to assist in common method of analyzing performance</td>
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Case Study 2: Solution for Multi Model Business Operations of CFSs / ICDs

• The Client: APM Terminals, India

• The challenge: Replace existing application software designed to independently manage operations of various CFS’s and ICD’s with centralized solution

• The Solution: Design and development of distributed application using Microsoft technologies. Used OO design techniques and implemented in ASP.Net. The product could be deployed over Touch screens at Kiosks for customers and Hand Held Terminals for Real Time data capture. Implemented the business logic desired to analyze performance of multiple locations operating with multiple business modalities through common platform.

• Benefits: Reduced TCO (Total Cost of Ownership); improved Truck Turn Around time and effective resource management; delivered crucial MIS reports.
Case Study 3: Enterprise Application for Transportation Operations – Road / Rail / Sea

- **The Client**: Adani Logistics, India
- **The Challenge**: Consolidate business operations of CFS / ICDs, Rake Operations and Fleet Operations; Automate processes to minimize manpower
- **The Solution**: Designed the application using ASP.Net technology over Oracle 11g; built interface with third party tools – SAP, Navis Express and Automation application tool. The solution manages operation of four ICDs, Rake movements, Rake Planning, Yard Planning, Warehouse Planning, Fleet Planning and allocation, KPIs, Dashboards.
- **Benefits**: Decision making tool supporting information gathering from various container terminals to assist in common method of analyzing performance
# Case Study 4: Replace Navis Express Billing solution with CTS TOS Billing Module

**The Client**  
APM Terminals, Algeciras, Spain

**The challenge**  
Study knowhow / behavior of Express and IFS database designed for customer tariff and replace through mapping CTS TOS billing solution

**The Solution**  
Studied the database structure of Navis and IFS application, analyzed the tariff structure to be inbuilt, suggested the appropriate means to bill for events. Application module is designed using ASP.Net technology over Oracle 11g; Now having rolled out for Navis Express, the commitment has been made to upgrade same to integrate with Navis N4 on rollout which is likely in next two months.

**Benefits**  
Improper billing against activities performed has been rectified and facility to address billing for activities performed but not captured in Express or N4 is resolved