Introduction

- Challenge (Information)
- Solution (System)
- Detail of types of info shared

- Conference Themes
XVIII Latin American Themes

- Collaboration, Cooperation & Communication – the 3 C’s

- Economic Depression – what now?
  - Strategize
  - Prepare & Plan
  - Invest x 3 for future market share

- Conference Themes
Global Customer Base
Over 25 Years Experience
Port System

- Challenge
Operational Breadth of a Port

- Agents & Port Community
- Traffic Management
- Pilot Scheduling
- Boat and Launch Scheduling
- Tug Scheduling
- Lock Management
- Port Services Planning
- Waste Control
- Container, Cargo & Yard Management
- Cargo & Dangerous Goods
- Warehouse Management
- Billing & Accounting
Repetition

- A lot of Information
- Various types of users
- Information Dispersed
- Different Information Formats
- Different views of information (data, graphical)
- Dispersed locations of input and reporting
- Extensive Reporting (Detailed, General, Formal)
- Integration of all port activities (vessels, cargo, billing, property)
3rd Party Information

- Lloyd's Registry
- Coast Guard
- Customs
- Ports America
- SafeSeaNet
- Agency / Shipping Line
- EDI Message
- Cruise Line
- Long-Term Schedule
- Pilot Association
Different Information Records

Same Information is gathered and used in different ways

- Paper, carbon copy, fax, notes
- White boards
- Magnetic boards
- Rulers
- Sticky notes
- Cargo manifest
- Agent request, confirmation
- Service providers, request, confirmation, change
Operational Challenge

- Integrate information from Silos of Information
- Communicate and share all data and information
- Operate more efficiently with accurate & timely information
Solution

- Port MIS: Management Information System
Solution - expanded

- Manage flow of info from various sources
- Enable community collaboration
- Info sharing not replication
- Accurate and timely info
- Automation of port rules
- Access rights
Port System – Detailed Results

- Information Integration (eg.)

- 3 main components of a port system interconnected
Vessel Related Info

- Web Booking
- Berth Planning
- Resource Planning
- Conflicts Resolution
- Traffic Control
- Maritime Community Collaboration

- Reports

Passage Route

VTS

AIS

BILLING
Billing Related Info

Billing Task → Tariff / Rate Table → Auto Fee Generation → Discount Contract → Approval / Review → Invoicing → Credit / Debit Note → A/R – G/L
Property Management Info

- Properties
- Tenants
- Agreements
- Billing Schedule
- Rent Roll Generation

Government Website

GIS System
Port System

- Summary
- Interconnectivity
- Integration
- Communication
Example of a Port Environment

- VTS / AIS
- Operator
- Financial backoffice
- Agents
- Marine Exchange
- Harbor Police
- Ports
- Service providers
  - Pilots
  - Tugs
  - Linesman

Communication protocols:
- XML/SOAP
- HTML
- EDI
Info Entered Once and Shared
3rd Party Information

- Lloyd's Registry
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- Customs
- Manifest
- System
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  EDI Message
- Cruise Line
  Long-Term Schedule
- Pilot Association
Integration

Lloyd’s Registry

Coast Guard

Customs

Ports America

Manifest

KleinPort

SafeSeaNet

Agency / Shipping Line

EDI Message

Cruise Line

Long-Term Schedule

Pilot Association
Communication

- Info in -> record
- Record -> report
- Report -> communicate
Problem Solved

- Integrate information from Silos of Information
- Communicate and share all data and information
- Operate more efficiently with accurate & timely information
Solution Architecture

Enterprise Service Bus

3rd Party Services

Web Server

Application Server

MS SQL Server

Messaging/Notifications/Alerts

Web Clients

Windows Clients

Administrator
• Thank you