

Infrastructure: Innovative Technology & Programs

Virtual Container Yard

Presented by:

eModal

FASTER FREIGHT CLEANER AIR 2006 Conference
Long Beach, California
January 31, 2006



Technology Addressing Congestion

VCY Provides Another Tool

- Internet-based information systems
- Appointment systems
- PierPASS second shift program
- RFID management systems



Virtual Container Yard

The ability to interchange containers at a nontraditional location.

- Off-dock container yard or depot
- Participating trucking company facilities
- Rail yard
- Importer or exporter facility with interchange information made available from nontraditional means.
- Internet



Relevant Agency and Authority Involvement

- Port of Long Beach
- Port of Los Angeles
- Alameda Corridor Transportation Authority
- Southern California Association of Governments
- Gateway Cities Council of Governments

Identifying the Stakeholders

- Ports
- Government/Agencies
- Ocean carrier
- Motor carrier
- Container/chassis owner
- Marine terminal operators
- Off-dock depots
- Driver/contractors
- Railroads
- Shippers/Consignees
- 3PL's
- Community



VCY Target Market

2005 POLA/POLB Stats

- 7+ million import TEUs = 3.9M loads
- Approximately 50% local imports
- 300 working days (PierPASS off-peak Saturdays)
- 6,500 loads for local each day
- 3:1 import/export ratio = 2,165 containers at 100% per day.



By The Numbers...

Year	At 100%, Annual VCYS
2006	650,000
2010	935,000
2015	1,200,000
2020	1,580,000



Addressing Environmental Challenges

Each VCY street turn should reduce NOX levels by 300g ~ Tons add up quickly!



Reduced Vehicle Miles Driven

Each VCY is projected to result in
a 15 mile trip saving.

EMPTY OCEAN CONTAINER LOGISTICS STUDY,
THE TIOGA GROUP, MAY 8, 2002



Team Efforts To Create The VCY

- Port of Long Beach
- Port of Los Angeles
- Alameda Corridor Transportation Authority
- International Asset Systems
- eModal

Using the Web Sites



**Why Register?
It's FREE!**

eModal registration is free. Registered users create Activity Folders to view status and other important information at the participating marine terminalson both coasts of the UnitedStates. Registered users can also pay fees on-line, schedule appointments with the Scheduler, and use the eModal Trucker Check

[Register Now!](#)

ATTENTION

IF YOU HAVE TRUCKS CALLING AT MARINE TERMINALS IN THE **PORTS OF LOS ANGELES & LONG BEACH** [Click here](#)

Questions about the PierPASS RFID tag Program? [Click here](#) 



YARD STORAGE AVAILABLE
Los Angeles | Long Beach
For information call **562 490-3800**

[Click to Advertise with eModal](#)

[Questions about logging in?](#)
[Click here for eModal demos!](#)

[Click for Participating Terminals](#)



(310) 835-7231
Logistics Services
Foreign Trade Zone
Transportation
Warehouse and
Container Storage

[Click to Advertise with eModal](#)

Single Portal, A Lot of Information
The eModal Port Community System brings the entire transportation industry together within a single, working portal. Registered members can:

- > Query container and booking status at [participating terminals](#) from the [eModal Activity Folders](#).
- > Save valuable time and money by paying demurrage, US Customs and other fees due at many marine terminals online using the eModal . Pay terminal fees online using the [Fee Payment tool](#).
- > Register truckers in [Trucker Check](#). Comply with Marine Terminals Security Facility Plans.

Virtual Container Yard Street Turns In Southern California
[Details](#) [Click here](#)

Community News

Virtual Container Yard Underway at So. Cal. Ports

OffPeak: A PierPASS Program
Do you use the Los Angeles Long Beach? [PIERPASS](#) [CLICK HERE!](#)



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Click on an announcement for more details.

Logoff
Activity Folder
Scheduler
Fee Payment
Trucker Check
EDO
My eModal

Contact Us

Virtual Container Yard in Southern California

We all know that the shortest distance between two points is a straight line.

With the Virtual Container Yard, that logic is put to good use in Southern California!

The ports of Long Beach and Los Angeles and the Alameda Corridor Transportation Authority are sponsoring a way to facilitate street turns of empty containers in Southern California. To be a part of this exciting program, please [contact us](#).







Marketing Survey

COMPANY INFORMATION



On average, how many truck trips does each trucker with your company make to the harbor each week?

Please Select

Do you currently perform street turns?

Yes No

How many Import moves on average does each trucker with your company haul per week to the harbor?

Please Select

How many Export moves on average does each trucker with your company haul per week to the harbor?

Please Select

Are you a house trucker for a steamship line?

Yes No If so, which one? Please Select

Do you contract to haul directly with the customers?

Yes No

Continue

Promotional Material

Fact Sheet For Ocean Carrier Outreach



Virtual Container Yard

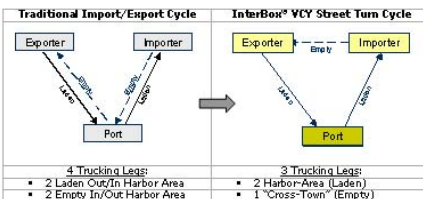
The Challenge

The combined ports of Los Angeles and Long Beach handled an estimated 14 Million TEU in 2005. Container throughput is expected to exceed 36 Million TEU by 2020. The related growth in truck traffic is causing congestion, pollution and numerous inefficiencies in the transportation supply chain. These problems are impacting port users as well as adjoining residential communities.

The Solution

The Ports of Los Angeles, Long Beach and ACTA have commissioned IAS in conjunction with eModal to develop and deploy a **Virtual Container Yard (VCY)** solution as part of a comprehensive work program to address these issues.

The VCY solution will reduce empty truck miles by increasing the potential for container reuse and street-turn opportunities in Southern California. To achieve this objective, the VCY will leverage the eModal portal and utilize the IAS InterBox® neutral platform to facilitate equipment exchanges away from the harbor areas.



The Benefits

The VCY delivers value to the Ocean Carrier community in several ways:



Benefits

- Ocean Carrier savings
 - Reduce fleet maintenance costs
 - Improve equipment turn times
 - Reduce overall fleet size



Benefits

- Terminal operating savings
 - Eliminate empty gate costs
 - Eliminate empty handling costs
 - Eliminate empty storage costs



Benefits

Motor Carrier savings

- Eliminate runs to the harbor
- Eliminate on-terminal delays
- Average vehicle miles saved



Supplier Accesses the eModal Activity Folder

LBCTI Daily Terminal Update Tuesday, Aug 9th, 2005

Logoff | Activity Folder | Scheduler | Fee Payment | Trucker Check | EDO | My eModal

PCT Home Scheduler Pay Fees Send Page Print **VCY**

Container: Add Add List Delete Customize Notifiers **VCY**

If container is this color, it means that we have not received a feed from the terminal today.

Select All Unselect All

OffPeak & PierPASS Program
Do you use the Ports of Los Angeles or Long Beach? **PIERPASS** [CLICK HERE](#)

Select	Container	Terminal	Available	Customs	Fees	PierPASS	Freight	In Yard	Last Free Day	Valid as of	USDA	Lloyds No.	Vessel
<input type="checkbox"/>	AMFU3111716	PCT	NO	RELEASED		Click	PAID	QG		8/9 10:26 PST		8912742	CITY OF ISTANBUL
<input type="checkbox"/>	AMFU8463520	PCT	YES	RELEASED		PAID	PAID	G	8/11/2005	8/9 10:26 PST		9285677	LONGBEA
<input type="checkbox"/>	AMFU8505116	PCT	NO	RELEASED		Click	PAID	QG		8/9 10:26 PST		9289128	MSCMAEV
<input type="checkbox"/>	AMFU8730713	PCT	NO	RELEASED		Click	PAID	QG		8/9 10:26 PST			
<input type="checkbox"/>	BSIU2021571	PCT	YES	RELEASED	\$1,320.00	Click	PAID	W	7/29/2005	8/9 10:26 PST		9286255	Pacific Link
<input type="checkbox"/>	BSIU2021571	PierA	NO			Click		OV		8/9 10:20 PST			
<input type="checkbox"/>	CARU9630626	PierA	NO			Click		OV		8/9 10:20 PST			
<input type="checkbox"/>	CARU9630626	PCT	YES	RELEASED	\$6,523.00	PAID	PAID	W	7/6/2005	8/9 10:26 PST		9286231	CMA Hugo
<input type="checkbox"/>	CAXU6269393	PCT	YES	RELEASED		Click	PAID	G	8/11/2005	8/9 10:26 PST		9285677	LONGBEA

Posted containers are brought over to the VCY Home Page

Suppliers select the posted container(s), and clicks the VCY button.

VCY Container Selection

Step 1)
Select 1 or more containers

<input type="checkbox"/>	NYKU5498734
<input checked="" type="checkbox"/>	COSU8795435
<input type="checkbox"/>	APLU5498731
<input type="checkbox"/>	NYKU2288653
<input type="checkbox"/>	ZIMU7789433
<input type="checkbox"/>	HANU4593792
<input checked="" type="checkbox"/>	NYKU1657354
<input checked="" type="checkbox"/>	COSU8573248
<input checked="" type="checkbox"/>	APLU4457885
<input type="checkbox"/>	NYKU6792245
<input checked="" type="checkbox"/>	OOCU5498765
<input checked="" type="checkbox"/>	OOCU9846375
<input type="checkbox"/>	ZIMU5578452
<input type="checkbox"/>	HANU4987322
<input type="checkbox"/>	APLU356234

Step 2)
Enter VCY



Providing Container Detail

VCY Container Details

*"All meaningful and lasting change starts first in your imagination and then works its way out. Imagination is more important than knowledge."
- Albert Einstein, 1879-1955*

Selected Containers:

OOCU5498765
OOCU9846375
NYKU1657354
COSU8573248
APLU4457885

COSU8573248

Size / Type: 40' Dry Highcube


LOCATION

Address: 12300 Riverside Drive

City: Mira Loma

State: CA

Zip Code: 91752



eModal-captured data is sent to IAS

XML messages
are sent
via secure http.

```
<?xml version="1.0" ?>
<-VCYPost>
  <TimeStamp />
  <MessageId />
  <-Requestor>
    <SCAC />
    <IASUserId />
    <eMUserId />
  </Requestor>
  <-Location>
    <Address1 />
    <Address2 />
    <City />
    <StateProvince />
    <PostalCode />
  </Location>
  <-Containers>
    <-Container>
      <ContainerId />
      <SizeType />
    </Container>
  </Containers>
</VCYPost>
```

Data elements include:

- User ID
- Authentication key
- Location
- Quantity
- Size/type
- Unit number



InterBox VCY Posting from eModal data

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Bulk Posting

[Search & Post](#) / [Current Postings](#) / [Current Activities](#) / [Completed Activities](#) / [Records & Reports](#)

Container Availability Summary (as of 03-Jan-06 11:32 AM) Page 1 of 1

(rows 1 - 5 of 5)

Location(s) to Display:

Inventory		Field Availability		InterBox Postings			
Location	Type	Qty Now	Pst/ User	Posted (CST)	Qty	Latest PU	Res for
Artesia Maersk	20' Std	14 / 5	dsp	03-Jan-06 12:00 AM	18	17-Jan-06	[Master] <input type="button" value="Edit"/>
		Move Empty Adjust Inventory		Create Deal Reserve Boxes			
Artesia Maersk	40' Std	(no inventory currently available)		0	17-Jan-06	[Master]	<input type="button" value="Edit"/>
Artesia Maersk	40' HC	(no inventory currently available)		0	17-Jan-06	[Master]	<input type="button" value="Edit"/>
Artesia Maersk	45' HC	(no inventory currently available)		<input type="button" value="Add Posting"/>			
Artesia Maersk	53' Dom	(no inventory currently available)		<input type="button" value="Add Posting"/>			

VCY System Flexibility

VCY street turn postings are made by both those with containers and those in need of containers.



System user enters VCY from eModal or InterBox.
Search is initiated in area where a street turn unit is needed.

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Search & Post

interbox

Search & Post | Current Postings | Current Activities | Completed Activities | Records & Reports

Search for Available Street Turns

Location (required)

Container Type (optional)

Common Los Angeles Area Locations

Location	Code	State	Region	Location	Code	State	Region
Artesia	US.ATM	US.CA	Gateway Cities	Lakewood	US.LQQ	US.CA	Gateway Cities
Avalon	US.CKI	US.CA	Gateway Cities	Long Beach	US.LGB	US.CA	Gateway Cities
Bell	US.BQC	US.CA	Gateway Cities	Lynwood	US.LYG	US.CA	Gateway Cities
Bell Gardens	US.BLG	US.CA	Gateway Cities	Maywood	US.MYA	US.CA	Gateway Cities
Bellflower	US.BFX	US.CA	Gateway Cities	Montebello	US.MTB	US.CA	Gateway Cities
Carson	US.CRU	US.CA	Gateway Cities	Norwalk	US.NAQ	US.CA	Gateway Cities
Cerritos	US.CEK	US.CA	Gateway Cities	Paramount	US.PMQ	US.CA	Gateway Cities
Commerce	US.CCF	US.CA	Gateway Cities	Pico Rivera	US.PQU	US.CA	Gateway Cities
Compton	US.CPM	US.CA	Gateway Cities	Santa Fe Springs	US.UYR	US.CA	Gateway Cities
Cudahy	US.CUY	US.CA	Gateway Cities	Signal Hill	US.SII	US.CA	Gateway Cities
Downey	US.JDY	US.CA	Gateway Cities	South Gate	US.SGC	US.CA	Gateway Cities
Hawaiian Gardens	US.HGN	US.CA	Gateway Cities	Yernon	US.YCA	US.CA	Gateway Cities
Huntington Park	US.HNG	US.CA	Gateway Cities	Whittier	US.WHR	US.CA	Gateway Cities
La Habra Heights	US.LHB	US.CA	Gateway Cities	Wilmington	US.WTN	US.CA	Gateway Cities
La Mirada	US.LMI	US.CA	Gateway Cities				









An acceptable candidate is found among search results

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Search & Post

Search & Post / Current Postings / Current Activities / Completed Activities / Records & Reports

The following units are available for immediate street turn.

Search Results						
Qty Type	Carrier Location	Earliest Latest	Facility Name	Posting Trucker	Drayage Rate	
RESERVED						
 6 20' Std	APL Artesia	03-Jan-06 17-Jan-06	UWDC	Pac Rim Trucking	Per contract	
RESERVED						
 1 20' Std	MAERSK Artesia	03-Jan-06 17-Jan-06	Universal Whse	ULS Express	Per contract	
 18 20' Std	MAERSK Artesia	03-Jan-06 17-Jan-06	Universal Whse	ULS Express	Per contract	
 3 20' Std	CMA Artesia	03-Jan-06 17-Jan-06	California Multimodal	California Multimodal Inc	Per contract	
 6 40' Std	K LINE Artesia	03-Jan-06 17-Jan-06	Total Intermodal	Total Intermodal Services	Per contract	
 3 40' Std	CMA Artesia	03-Jan-06 17-Jan-06	California Multimodal	California Multimodal Inc	Per contract	



Posting details are examined - quantity selected

Search & Post 

Search & Post / Current Postings / Current Activities / Completed Activities / Records & Reports

Street Turn Posting Detail	
Location	Artesia
Origin Code	US.ATM
Container Type	20' Std
Container Type	20' Std
Container Quantity	1
Container Quantity	<input type="text"/>
Posting Trucker	ULS Express
<input type="button" value="Reserve Street Turn Unit"/>	
Additional Details	
Carrier	Maersk
Carrier	<input type="text" value="Maersk"/>
Facility Address	876 Oak Street Valencia, CA 87676
Facility Address	<input type="text" value="876 Oak Street"/> <input type="text" value="Valencia, CA 87676"/>
Earliest Pickup Date	03-Jan-06
Earliest Pickup Date	<input type="text" value="03-Jan-06"/>
Latest Pickup Date	17-Jan-06
Latest Pickup Date	<input type="text" value="17-Jan-06"/>
Return Date	per contract
Return date	per contract
Facility Name	Universal Whse
Facility Name	<input type="text" value="Universal Whse"/>
Drayage Rate	Per contract
Drayage Rate	<input type="text" value="Per contract"/>
<input type="button" value="Reserve Street Turn Unit"/> <input type="button" value="Cancel"/>	



Transactions are confirmed and submitted

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Current Postings

Search & Post / Current Postings / Current Activities / Completed Activities / Records & Reports

Verification of Offer 03-Jan-06 11:28 AM CST

By clicking 'Submit' below, I agree to be bound by the terms shown.

Posting Details

Location	Artesia	Container Quantity	1
Earliest Pickup Date	03-Jan-06	Container Type	20' Std
Latest Pickup Date	17-Jan-06		
Return Date	per contract		
Facility Name	Universal Whse	Drayage Rate	Per contract



Transactions are confirmed with notifications

Current Activities

Transaction Confirmation 03-Jan-06 11:29 AM CST
 Creation Date: 03-Jan-06 Transaction ID: P165718

This is your authorization to pick up the contracted containers from the Supplying Member. This screen provides a detailed description of the Transaction including Pickup, Authorization ID(s), Billing Information and Billing and Operational Contacts.

Pickup Authorization ID(s)	
ULSExpress342	
Description of Transaction	
Location	Artesia
Earliest Pickup Date	03-Jan-06
Latest Pickup Date	17-Jan-06
Return Date	per contract
Facility Name	Universal Whse
Container Quantity	1
Container Type	20' Std
Drayage Rate	Per contract
Carrier Information	
Carrier	Maersk
Facility Address	876 Oak Street Valencia, CA 97676
Contact	George Washburn
Email	lczaron@interasset.com
Phone	510 555 1212
Fax	510 555 1212
Transaction Members	
Supplying Member	SUPPLA
Receiving Member	RECOVER
ULS Express	ABC Trucking
Contact	David Ferguson
Contact	Heidi Regier
Email	lczaron@interasset.com
Email	hregier@interasset.com
Phone	510 555 1212
Phone	415 555 1212
Fax	510 555 1212
Fax	415 555 1414
Billing Contacts	
SUPPLA	David Ferguson
RECOVER	Heidi Regier
ULS Express	ABC Trucking
540 Main Street	34 Oak Street
Oakland, CA 94611	SE, CA 94611
Email	lczaron@interasset.com
Email	hregier@interasset.com
Phone	510 555 1212
Phone	415 555 1212
Fax	510 666 1223
Fax	415 555 1414

It is the responsibility of the member receiving the incentive to invoice and collect from the member paying the incentive, if an incentive is payable.

-----Original Message-----

From: admin@interasset.com
 [mailto:admin@interasset.com]
 Sent: Wednesday, January 04, 2006 10:17 AM
 To: David Ferguson
 Cc: George Washburn
 Subject: IBX P165718 - Maersk - ULSExpress356 - RECOVER

INTERBOX TRANSACTION CONFIRMATION - 04-Jan-06
 10:16 AM CST

The following authorization to pick up the contracted containers has been sent to the Receiving Member on your behalf:
 Authorization : ULSExpress356

TRANSACTION DETAILS

Supplying Member : ULS Express (SUPPLA)
 Supplying User : David Ferguson
 email : dfergi@ulsexpress.com
 phone : 310 555 1212
 fax : 310 555 1212

Receiving Member : ABC Trucking (RECOVER)
 Receiving User : Heidi Regier
 email : hregier@abctruck.com
 phone : 949 555 1212
 fax : 949 555 1414

Transaction Type : Street Turn



Next Steps

- February '06 facilitate first public VCY program and promotional workshops
 - Motor carriers
 - Ocean carriers
 - Importers/exporters
- February/March '06 complete IT structure and launch Web site.



Thank you
Questions?/Comments



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