



Integrated Maritime Operations System

Multi-Grade Guide

April 15, 2008

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Introduction to Multi-Grade Bunkers

To meet requirements for low sulfur fuels in environmentally restricted regions, IMOS supports tracking multiple fuel types, or grades. In addition to Intermediate Fuel Oil (IFO) and Marine Diesel Oil (MDO), you can extend the list of fuel types and configure your vessels to use them. IMOS maintains pricing, speed-consumption, ROB, and stemming data independently for each bunker grade. With Multi-Grade Bunkers, IMOS also supports tracking nonfuel vessel liquids, such hydraulic fluid and lubricating oils.

The IMOS Distances database includes an accurate geographic representation of lowsulfur regions. This information enables the Voyage Estimator to automatically project accurate cost estimates based on the consumption of low-sulfur and/or full-sulfur fuels.

This document describes the changes to the forms and functions of IMOS related to Multi-Grade Bunkers.

The primary tasks affected by Multi-Grade Bunkers include:

- Defining Fuel/Lube Types, on page 7
- Configuring Vessels to Use Grades, on page 7
- Estimating a Voyage, on page 13
- Fixing a Voyage, on page 16
- Managing a Voyage, on page 17
- Bunker Planning and Invoicing, on page 18
- Time Chartering, on page 23

Data Center

To configure multiple grades of fuel in IMOS, click the **Data Center** tab to begin in the Data Center. Define all the fuel/lube types you will use and then configure your vessels to use them.

Defining Fuel/Lube Types

The first step in using multiple grades of fuel is to define the fuel and lubricant types.

1. In the Data Center Term Lists table, under Other, click Fuel/Lube Types.

📑 Fuel	/ Lube Type	25	×
	🛃 Report		
-		1 .	
Type	Name	Description	
HFO	HFO	Heavy Fuel Oil	<u> </u>
IFO	IFO	International Fuel Oil	
MDO	MDO	Marine Diesel Oil	
MGO	MGO	Marine Gas Oil	
HYD	HYD	Hydraulic Oil	
LSO	LSO	Low Sulfur Oil	
LSD	LSD	Low Sulfur Diesel	
		Click here to add a row	
			-
Descripti	on of fuel or lu	ubricant.	

- 2. In the Fuel/Lube Types form, complete the fields:
 - Type: Three characters representing the type of fuel or lubricant.
 - **Name**: Up to seven characters representing the name of the fuel or lubricant. The name defaults to the same value as the Type, but you can change it.
 - **Description**: A description of the fuel or lubricant.
- 3. To save the information, click \blacksquare .

Configuring Vessels to Use Grades

General Vessel Information

After defining fuel and lube types, you can configure your vessels to use the different types on the General Vessel Information form. If multiple vessels use the same configuration of grades, you can configure one vessel and then copy it to configure the other, similar vessels.

- 1. In the Data Center, click Vessels.
- 2. In the Vessels list, do one of the following:

- To update an existing vessel, click its name.
- To add a new vessel, click New Vessel and complete at least the following required fields:
 - Vessel Code: A unique, four-digit code.
 - **Type Code**: Code for the vessel type: B = Bulk; L = LNG Carrier; T = Tanker.
 - Speed Laden: Vessel speed when fully laden.
 - Vessel Name: Name of the vessel.
 - Vessel Type: Vessel type.
 - Vessel DWT: Deadweight of the vessel, in metric tons.
- To copy the data from an existing vessel, click either between or a vessel or a vessel

name to open the General Vessel Information form. Click and retrieve the information for the vessel you want to copy. Complete at least the required fields listed above.

	🔲 Ge <u>ne</u> i	ral Ves	sel Inf <u>orn</u>	nation									
	🖻 🔒		\times	Copy 🖻	View Details	FT Con	vert 🛃 F	leport					
	Vessel C	ode: S	AME	Vessel N	ame: AMERIC	AN EAGLE		Ve	essel DW1	r:	75,000.00	МТ	AMERICAN EAGLE
	Туре С	ode: T		Year	Built:			SW Sum	mer Draf	t:	14.35	M	ြာက်မိုက်ဦ Voyages
	Owners	ship: O	V	Vessel 1	ype: MMTA				TPC	1:	67.00		• 1 (07/15/2007)
	IMO Num	ber:		E	leet:				Capacity	4	86,350	MЗ	NONAME: 10.000 MT
	Daily C	lost:	25,000.00	Trade /	<u>vrea:</u>				Capacity	/1	543,126	вЫ	GASOLINE: 1.020 MT
	Speed La	den:	15.50	Vessel Ov	iner:								Attachments
	Bal	last:	16.00	Class Soc	iety:								
	In Port C	lonsump	tion Table	(Per Day)		1						_	
	Туре	Name	Unit	Capacity	Margin	Loading	g Dischg	Idle	Hotel	Heat	Clean G		
rt	IFO	IFO	MT	2,300.00	0.00	12.0	0 24.00	7.50	0.00	28.00	8.50 G	-	
imption:	MDO	MDO	MT	110.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00 G		
to add a	LSO	LSO	MT	1,000.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00 L		
700	HYD	HYD	MT	0.25	0.00	0.0	0.00	0.00	0.00	0.00	0.00 G		
/pc	Speed C	onsumn	tion Table (Per Dav)	Click	here to ac	id a row					•	
l	Speed	TE	രസ	TEO (B)	MDO (L)	MDO (B)	150 (1)	150	(B)		HVD (B)		
imption:	15.50		27.00	26.00	0.00	0.00	27.00	25	.00	0.00	0.00	-	
to add a	16.00		28.00	27.00	0.00	0.00	29.00	27	.00	0.00	0.00		
					Click	here to ac	id a row						
•													
												-	
				Canal	Cost: B	allast	Laden		Variables	And Safe	ety Margins		
	🗖 Vesse	Not Ac	tive	Pan	ama: 100,00	0.00 1	50,000.00	0	Constants	51	0.00	MT	
				-	iuez: 100,00	0.00 1	50,000.00	Fre	esh Water	r:	0.00	MT	
	Draft N	1arks / I	Pertinent	Mag	ellan: 100,00	0.00 1	50,000.00		Others	51	0.00	MT	
	Deadw	eight So	ale Table	Bosph	orus: 100,00	0.00 1	50,000.00		Tota	d:	0.00	MT	

- 3. In the General Vessel Information form, add any relevant information, including the multi-grade fields:
 - **In Port Consumption Table**: Click in the last row of the table to add a fuel type row and complete the fields:
 - **Type**: Press **Enter** to open the Fuel Type selection list, select a fuel type, and click **OK**.
 - Name: The name defaults to the same value as the Type.

- Unit: Press Enter to open the Units selection list, select a unit of measure, and click OK.
- Capacity: Fuel capacity of the vessel.
- Margin: Safety margin of fuel held.
- Loading: Loading fuel consumption.
- **Dischg**: Discharge fuel consumption.
- o Idle: Idling fuel consumption.
- Hotel: Hotel fuel consumption.
- Heat: Heating fuel consumption.
- Clean: Cleaning fuel consumption.
- **G** (Grade): G = General purpose, which doesn't alternate. H = High sulfur; L = Low sulfur. High- and Low-sulfur grades alternate with each other.
- **Speed Consumption Table**: If necessary, click in the last row of the table to add a speed row so the table includes consumption amounts for all of the vessel's normal operating speeds. Complete the fields:
 - Speed: A normal operating speed for the vessel.
 - For each fuel type:
 - **Fuel** (L): Fuel consumption when laden at the listed speed.
 - **Fuel** (**B**): Fuel consumption when in ballast at the listed speed.
- 4. To save the information, click \blacksquare .

Unit Information

The Unit Information form includes most of the same Bunker Information and the same Speed Consumption table as the General Vessel Information form.

Type Code: Vessel Type: Vetted Date: / Daily Cost: 0.00 Service Area: Fleet: Unit Owner: Boat Name In (GMT) In Lub Out (GMT) Click here to add a row In (GMT) La
In type cost 0.00 Service Area: Fleet: Unit Owner: Boat Name In (GMT) In Lub Out (GMT) Click here to add a row
Boat Name In (GMT) In Lub Out (GMT) Click here to add a row Click here to add a row La Barge Name In (GMT) Out (GMT) La Click here to add a row Barge Name In (GMT) Barge Name
Boat Name In (GMT) In LUD Out (GMT) Barge Name In (GMT) Out (GMT) L Click here to add a row End a row Barge Name
Barge Name In (GMT) Out (GMT) Lt Click here to add a row Ba
Bunker Information
add a Type Name Unit Capacity Loading Discharge Idle Hotel Heat Clean
Click here to add a row
otion: Speed Consumption
ption: Speed Consumption add a Speed

Boat Information

The Boat Information form also includes separate information for each fuel type in Bunker Information.

	Boat 1	Information							2
	28	× 🛚	Fit Convert	🗋 New L	Init 📔 🛃 R	eport			
	Boat Co	ode:	Service Are	a:			Da	ily Cost:	0.00
	Owners	hip:	Vessel Typ	e:			Speed	Laden:	0.00
	Official	No:	Flee	et:			Speed	Ballast:	0.0
	Year B	uilt:	Phone N	lo:			Horse	epower:	0.0
			Fax N	lo:			Registere	ed Tons:	0.0
						To	w Capacity	(BBLs):	0.0
	Boat Nar	me	Own	er	Eff	Date			
			Click here to a	idd a row		A	Lub (G	al/day):	0.00
inker	Bunker In	formation			Lo	< W × H (Ft):	0.00	0.00	0.00
formation:	Туре	Name	Unit	Capacity	Loading	Discharge	Idle	Avg Cons G	ial/Hour
ick to add a				0.00	0.00	0.00	0.00		0.00
el type				Click h	ere to add a	row			
	Remarks								

Inland Barge Information

The Inland Barge Information form lists capacities by fuel type.

	🔜 Inland Barge Informa	ition					×
		🖞 Convert 🛛 🗋 Ne	w Unit 📗 🛃 Re	eport			
	Barge Code:	Service Area:			Vetted Date	:	11
		1			Ownership	:	
	Barge Name	Owner	Eff Da	te	Official No	:	
	Click	here to add a row		<u>^</u>	Year Built	۱ <u> </u>	
					Daily Cost	1	0.00
					OPA Date	:	11
				0	Calibrated BBLs	:	0.00
				R	egistered Tons	1	0.00
				▼ F	leating (Gal/Hr)	1	0.00
Capacity: Click to add a fuel type.	© Tanker □ Vapor F C Bulk □ Heat	uel Type Cap	acity a row 📥 Hull Ar	Hull Typ rangemer	e:		
	🔽 Steam		Lx	₩×H(F	:): 0.00	0.00	0.00
	Dock Exceptions:						
	Port	Berth	Reason				
		Click.	here to add a ros	A.			*
							*
	Barge Notes:						
	Barge service area.						

Chartering

You can specify prices for different fuels for IMOS to use in calculating estimates. The Voyage Estimator also uses data from IMOS Distances to recognize low-sulfur zones and use the correct grade in consumption figures.

Estimating a Voyage

When you estimate the cost of a voyage, you can specify prices for different fuels to use in the calculations. The Estimator also recognizes when a vessel is in a Low Sulfur zone and calculates fuel consumption accordingly.

When you begin creating an estimate in the Column view, you can specify all the fuel prices per metric ton to be used in the calculation.



The Details view shows the information for all the fuels in a table: fuel type; price; and ballast, laden, loading, discharging, and idling consumption.

														£	ESTIMATE SUMM	ARY
Vessel:	MERICAN EA	GLE		Ballast po	t:		IFO	350.0	0 27.00	27.00					Estimate Id:	MG-1
Deadweight (mt):			75,000	Reposition po	t:		MDO	700.0	0		12.00	12.00				
DlyCost/Addr:	25,000.	00	0.00	Ballast Boni	IS:	0.00	LSO	600.0	0 27.00	27.00					P&L SUMMARY US	iD
MVE (per day):			0	DWthr Factor(%):	0.00	HYD	10.0	0						Freight:	1,016,367.29
Spd Bal/Ldn(kts):	16.00		15.50				×								Demurrage:	0.00
ARGOES							/								Gross Income:	1,016,367.25
ACME - 1 : CRUDE O	IL.			_											Less Comm/Rbt:	20,327.35
50000 MT @ 20.327 - QUOIN ISLAND 50000 @ 1.20 days	USD/MT (2.00 SHINC	1%)		Fu	el Tabl	le /									Less Tax:	0.00
D - STOCKHOLM															Misc Income:	0.00
50000 @ 40.00 day	s SHINC			Dı	aft/Res	striction	s Vie	w tah).						Net Income:	996,039.95
				21											Vessel Exps:	561,586.02
d										~				p.	Less Address:	0.0
											*			-	Canals:	150,000.00
YOYAGE ITINERARY							Cargo Vi	ew Port	/Date View	Draft,	Restrict	ions Vie	w		Port Exps:	0.0
Port	Berth	F	DraftB	asis Draft	Cargo	L/D Qty	API	SG	MaxLift	Bnkr Arr	LS SDay	LSPD	ay		Bunker Exps:	199,819.52
	C11037	L	m.ss		NO NAME	50,000		1.08	74,463	536.51	0.00	0.	00	4	Misc Exps:	0.00
QUOIN ISLAND	QUAY	1.7														
QUOIN ISLAND SUEZ CANAL	TRANSIT	I	m.ss	16.00				1.08	74,671	328.25	0.00	0.	00		Total Expenses:	911,405.54
QUOIN ISLAND SUEZ CANAL STOCKHOLM	TRANSIT	I D	m.ss m.ss	16.00	NO NAME	50,000		1.08	74,671 74,980	328.25 20.00	0.00	0.0.	00		Total Expenses:	911,405.54
Quoin Island Guez Canal Stockholm	QUAY TRANSIT QUAY	I D	m.ss m.ss	16.00	NO NAME Click her	50,000 re to add a row		1.08 1.08	74,671 74,980	328.25 20.00	0.00	0 0.	00		Total Expenses: Profit:	911,405.54 84,634.41
QUOIN ISLAND GUEZ CANAL STOCKHOLM	TRANSIT	I D	m.ss m.ss	16.00	NO NAME Click her	50,000 re to add a row		1.08	74,671 74,980	328.25	0.00	0.0.	00		Total Expenses: Profit: Daily Profit:	911,405.54 84,634.41 3,767.65
Quoin Island Suez Canal Stockholm	QUAY TRANSIT QUAY	I D	m.ss m.ss	16.00	NO NAME Click her	50,000 re to add a row		1.08	74,671 74,980	328.25 20.00	0.00	0.0.	00		Total Expenses: Profit: Daily Profit: Breakeven:	911,405.54 84,634.41 3,767.65 18.6001
QUOIN ISLAND SLIEZ CANAL STOCKHOLM	QUAY TRANSIT QUAY	ID	m.ss m.ss	16.00 Low Su	NO NAME Click her	50,000 re to add a row	and H	1.08 1.08 Port E	74,671 74,980	328.25	0.00	0.0.	00		Total Expenses: Profit: Daily Profit: Breakeven: Frt Rate (USD/t):	911,405.54 84,634.41 3,767.65 18.6001 20.3273
QUOIN ISLAND SUEZ CANAL STOCKHOLM	QUAY TRANSIT QUAY	I	m.ss	Low Su	NO NAME	so,000 re to add a row ea Days	and I	1.08 1.08 Port E	74,671 74,980 Days	328.25 20.00	0.00	0.0.	00		Total Expenses: Profit: Daily Profit: Breakeven: Frt Rate (USD/t): TCE (USD/d):	911,405.54 84,634.4) 3,767.65 18.600 20.327 28,767.65
QUOIN ISLAND SUEZ CANAL STOCKHOLM	QUAY TRANSIT QUAY	ID	m.ss	Low Su	NO NAME Click be	so,000 reto add a row ea Days	and I	1.08 1.08	74,671 74,980	328.25	0.00	0.0.	00		Total Expenses: Profit: Daily Profit: Breakeven: Frt Rate (USD/t): TCE (USD/d): VOYAGE DAYS	911,405.5- 84,634.4 3,767.6 18.600 20.327 28,767.6
QUOIN ISLAND SUEZ CANAL STOCKHOLM	QUAY TRANSIT QUAY	I	m.ss m.ss	Low Su	NO NAME Clock he	so,000 re to add a row ea Days	and I	1.08 1.08	74,671 74,980	328.25	0.00	0.0.	00	-	Total Expenses: Profit: Daily Profit: Breakeven: Frt Rate (USD/t): TCE (USD/d): VOYAGE DAYS Commence On:	911,405.5 84,634.4 3,767.6 18,600 20.327 20,767.6 10/05/07 04:5
QUOIN ISLAND SUEZ CANAL STOCKHOLM	QUAY TRANSIT QUAY	I D	m.ss m.ss	Low Su	NO NAME Clock he	so,000 ee to add a row	and I	^{1.08} 1.08 Port E	74,671 74,980	328.25 20.00	0.00	0.	00	+	Total Expenses: Profit: Dally Profit: Breakeven: Frt Rate (USD/t): TCE (USD/d): VOVAGE DAYS Commence On: Complete On:	911,405.54 84,634.41 3,767.65 18,6000 20.327 28,767.65 10/05/07 04:55 10/27/07 16:00

The Voyage Itinerary has different views located on tabs. Click the **Draft/Restrictions View** tab to enter Low Sulfur Sea Days and Low Sulfur Port Days for the estimate.

Vessel Details for Estimate

You can adjust information about the vessel for this voyage on the Vessel Details for Estimate form by clicking the <u>Vessel</u> link.

Vessel Name:	AMERICAN E	AGLE		SAME		Canal	Costs (L	JSD)
Daily Cost:	25,000	Vettin	g Rate:	0		Balla	ast La	den
Vessel DWT:	75,000	Cargo Ca	apacity:	86,350	Panama:	100,00	0 150),000
iummer Draft:	14.35				Suez:	100,00	0 150),000
Winter Draft:	0.00	Weather Fact	or (%):	0.00	Magellan:	100,00	0 150),000
TPC:	67.00	Tot	al Vars:	0	Bosporus:	100,00	00 150),000
MDO	30.0	0 27.00	0.00	0 0.00	0.00 0	.00	0.00	2,300.0
Name	Pric	e Ballast	Lader	Load	Disch	Idle M	Margin	Capacity
MDO	30.0	0.00	0.00	0.00	0.00 0	.00	0.00	110.00
LSO	0.0	0 27.00	27.00	0.00	0.00 0	0.00	0.00	1,000.0
Contract Typ	e: OVOV.							
conservyp								

Ballasting Cost Details and Repositioning Cost Details

Ballasting Cost Details (click the <u>Ballast port</u> link) and Repositioning Cost Details (click the <u>Reposition port</u> link) also include information for the fuel types separately.



Bunker Planning

On the Options menu, click **Bunker Planning** to work with bunkers for the estimate.

Init Quantity:	0.00	Init Price:	350.00			
Port Name	Sea Cons	ROB Arr	Port Cons	Receive	Price	ROB Dpt
UOIN ISLAND	0.00	502.11	0.00			502.11
UEZ CANAL	193.86	308.25	0.00			308.25
TOCKHOLM	308.25	0.00	0.00			0.00
Tatala	502 11		0.00	0.00		

Each fuel type has a tab with its information. You can enter an initial quantity and price and update the amounts.

Fixing a Voyage

When you fix a voyage, the Fixture Note also includes the tabbed views on the bottom. Not only does it look similar to the Voyage Estimate, but the data is also integrated between them.

PIATORE INFORMA	ATION														20070016
Fixture No: 20	0070016		C/P I	Form:				Perfo	rming Vessel:	AMERICAN	EAGLE	S	AME		Commission (Cargo: CRUDE OIL BOND: 2 00 %
Date:	11/13/200		C/P	Date:	-	11 50	Scheduled		Voyage No:	701	Commence	: 10/05/07	04:55		Attachments
VOY EST Id: M	G-1 UNV	000	Coorde	Id by:							Pallart Done		0.00		
oh ilber o	101	ops	coorda	iduur.							Daliast Durits	*	0.00		
CP Terms Details	5														
N Cargo		C/P (aty U	nit	Opt %	Opt Type	T	Frt Rate	Lumpsum	Charterer	Curr	ExchRab	5		
1 CRUDE OIL		50,0	000 M1	r.	0	NOOPT	F	26.0000	25,000.00	ACME	USD	1.00000	0	-	
							lick here to	add a row							
														×	
	Tota	1: 50,0	000						6 10	Kaur				-	
Itinerary	Tota	50,0	000						Cargo Vie	w Port/C	ate View	Draft/Restrict	ions View	-	
Itinerary Port	Tota Miles	50,0	000 SDay	XS	F Ca	rgo	L/D Qty	L/D Rate	Cargo Vie Terms	Port/D PDay X	P PortExp	Draft/Restrict OExp\$/t	ions View Dem St	*	
Itinerary Port QUOIN ISLAND SIFT CANAL	Tota Miles	50,0 Spd 16.0	000 SDay	XS	F Ca	ude oil	L/D Qty 50,000	L/D Rate 25,000.00	Cargo Vie Terms SHINC	Port/D PDay X 2.00	P PortExp	Draft/Restrict OExp\$/t	ions View Dem St	×	
Itinerary Port QUOIN ISLAND SUEZ CANAL STOCKHOLM	Tota Miles 2,671 4,247	Spd 16.0 15.5	5000 5Day 7.18	XS	F Ca L CR I		L/D Qty 50,000	L/D Rate 25,000.00	Cargo Vie Terms SHINC SHINC SHINC	Port/D PDay X 2.00	P PortExp 150,000	Draft/Restrict OExp \$/ t	ions View Dem St	×	
Itinerary Port QUOIN ISLAND SUEZ CANAL STOCKHOLM	Tota Miles 2,671 4,247	Spd 16.0 15.5 15.5	5000 5Day 7.18 11.42	XS	F Ca L CR I D CR	ude oit	L/D Qty 50,000 50,000	L/D Rate 25,000.00 25,000.00	Cargo Vie Terms SHINC SHINC SHINC	2.00	P PortExp 150,000	Draft/Restrict OExp\$/t	ions View Dem St.	×	
Itinerary Port QUOIN ISLAND SLIEZ CANAL STOCKHOLM	Tota 2,671 4,247	k 50,4 Spd 16.0 15.5 15.5	000 SDay 7.18 11.42	XS	F Ca L CRI I D CRI	INDE OIL	L/D Qty 50,000 50,000 30, here to	L/D Rate 25,000.00 25,000.00 add a row	Cargo Vie Terms SHINC SHINC SHINC	2.00	P PortExp 150,000	Draft/Restrict OExp\$/t	ions View Dem St 	×	
Itinerary Port QUOIN ISLAND SUEZ CANAL STOCKHOLM	Tota Miles 2,671 4,247	k 50,0 Spd 16.0 15.5 15.5	5000 5Day 7.18 11.42	XS	F Ca L CRI I D CRI	UDE OIL	L/D Qty 50,000 50,000 Gid: here to	L/D Rate 25,000.00 25,000.00 add a row	Cargo Vie Terms SHINC SHINC SHINC	Port/D PDay X 2.00 2.00	P PortExp 150,000	Draft/Restrict OExp\$/t	ions View Dem St 	N N	
Itinerary Port QUOIN ISLAND SUEZ CANAL STOCKHOLM	Tota Miles 2,671 4,247	Spd 16.0 15.5 15.5	5000 50ay 7.18 11.42	XS	F Ca L CR I D CR	ude oil	L/D Qty 50,000 50,000	L/D Rate 25,000.00 25,000.00 add a row	Cargo Vie Terms SHINC SHINC SHINC	W Port/D PDay X 2.00 2.00	P PortExp 150,000	Draft/Restrict OExp\$/t	ions View Dem St 	×	
Itinerary Port QUOIN ISLAND SJEZ CANAL STOCKHOLM	Tota Miles 2,671 4,247	k 50,4 Spd 16.0 15.5 15.5	5000 5Day 7.18 11.42	XS	F Ca L CRI I D CRI	ingo UDE OIL C	L/D Qty 50,000 50,000	L/D Rate 25,000.00 25,000.00 edd a row	Cargo Vie Terms SHINC SHINC SHINC	Port/C PDay X 2.00 2.00	P PortExp 150,000	Draft/Restrict OExp\$/t	ions View Dem St 	N	

Operations

Managing a Voyage

After you schedule the voyage, you can see that the Voyage Profit/Loss includes the costs for the various types of fuel. The costs are also included in the Profit & Loss reports and tracked throughout the voyage.

The Voyage Manager and Fixture Note are closely integrated: When you add something to the Voyage Manager in Operations, it is also added to the Fixture Note, and vice versa. You can add or change information in either place, and IMOS keeps it all synchronized.



Bunker Planning and Invoicing

Bunkers for Voyage

Repor	t 🛛 🚺 Add S	urvey Costs							
Sumn	nary IFO M	0 150 1	HYD						
[ype	Init Qty	Init Prc	Sea Cons	Port Cor	ns Rece	eived	Last Prc	End Qty	End Prc
0	2,500.00	300.00	496.05	0.0	00	0.00	0.00	2,003.95	300.00
DO	900.00	400.00	0.00	48.0	00	0.00	0.00	852.00	400.00
50	1,500.00	500.00	0.00	0.0	00	0.00	0.00	1,500.00	500.00
/D	0.25	800.00	0.00	0.0	00	0.00	0.00	0.25	800.00
					1 martine and the		1		
iurveyo	r	Port			Inv No		INV Da	ite Curr	Amount

🖬 Rupkara

The Bunkers for Voyage form has the same fuel tabs for doing bunker planning, reporting bunkers received, and prices. The Summary tab shows overall information for the vessel.

Initial Bunkers

When you create a voyage from scratch, you can also enter quantities and prices for the different fuel types on the Initial Bunkers form.

Туре	Qty (MT)	Price
IFO	0.000	0.00
MDO	0.000	0.00
LSO	0.000	0.00
	0.000	0.00
Lube Oil (Ltr):	0.00	

Bunker Inquiry

Multiple grades can also be captured in bunker inquiries and price binding.

	Vessel: VIC Port: ALG Inspector:	uiry En Copy TORY ;ECIRAS	Bunker	Invoice	 Select Ve Voyage: ETA: Delivery: 	endor D14 5014 11/12/2005 11/12/2005	urchase order Window Fron Window To	n: 		Bunker IFO MDO	r Type	Req Qty 500.000
Multiple	Vendor PENINSULA	IFO 294.0000	Base MDO 635.0000	Rate	0.000 Cli	Barg Rate 0 0.0000 ck here to add	ing Cost 0 a row	Other 0	P Cost 0	Sub Ttl 195,375	Tax % 0.00	Total 195,375
grades	Port name.											T

Bunker Invoice

When a vendor charges different prices for different amounts of the same type of fuel, with the price going down after a certain quantity, line items can be broken down into those subprices. That means that you can include more than one price for the same grade on the same invoice, rather than having to create separate invoices for the different prices.

	🔤 Bunker II	nvoice							2	×
	2 🔒 🗌	🛎 🗙 i	Report	🔋 Attachm	ents					
	Vessel:					Voyage No:	F	Port:		
	Berth:		Invoice	e No:	1	erms (Days):	0	Account No:]
	Vendor:		Curre	ency: USD	Exchan	ge Rate:	0.0000	Invoice Date:	11	
	Broker:							Delivery Date:		
	Paying Co:		Remit	tance Bank:				Due Date:		_
Invoice	Туре	Inv Qty	Opr Qty	Basic Prc	Barging Prc	Other Prc	Oth Cost	Sales Tax	Total Cost	
Ouentity	1	➡ 0.000	0.000	0.0000	0.0000	0.0000	0.00	0.00	0.00 🛓	-
Quantity					Click here to a	add a row				
									,	-
			Total Cost:	0.00	0.00	0.00	0.00	0.00	0.00	
							F	Port Charges:	0.00	
	🔽 Actual		GST %:	0.00	PST %:	0.00		Grand Total:	0.00	
	Fuel type.									-

On the Bunker Invoice, right-click the Invoice Quantity and click **Base Price Breakdown**.



On the Price Breakdown For form, enter the **Quantity Up To** which you pay the first price and the **Price**. For each additional level, enter the **Quantity Up To** which you pay the price and the **Price**.

Survey Costs

To enter survey costs, on the Bunkers for Voyage form, click



Enter the surveyor, invoice date, and banking details, and it creates the payable. These costs become a line item on the Bunkers form and are included in the P&L and in reporting.

Delay Information

The Delay Information form differentiates between the different types of fuel. Click

in the Voyage Manager.



Extra Information For Activity Report

The Extra Information For Activity Report form also differentiates between the different types of fuel. In the Voyage Manager, right-click a port name and click **Activity Reports**. On the Activity Reports for Voyage form, right-click a report line and click **Bunker/Technical/Weather/Remarks**.



Time Chartering

The Bunker Section in the Time Charter In Manager and Time Charter Out Manager has columns for the quantities and prices of all the fuel types that are configured for the vessel in the Data Center.

Time Charter In Manager

Vessel: ORJ Ref No: Duration: Laycan Fr: Laycan To:	0.0000	Rebill	ORIO 1 Hire C Billing able Admin F	C Code: urrency: g Period: Fee (%): TC Trip Redelin	USD 0 0.00 vered	CP I Exchange F Fixed I Ballast Bo Ballast I Closed	Date: 1. Date: 1. Date: 3 Inus: 3 Bonus Commi	/// ⊆ .000000 /// 0.00 issionable	<u>Hartered Fr</u> Gratuities Gratuitie TC A	Company: Fixed By: (30 Days): es Monthly: djustment:	0.00 0.00 0.00	Paid AB Broker(s) C Voyage(s) Attachment(s)
Del Port: CP Del GMT: Act Del GMT: Diff (Hours):	0.00	Re CP Re Prj Re Diff	edel Port: edel GMT: edel GMT: (Hours):		0.00	Broker	Click here b	Rate Typ o add a row	De F	ILOHC: Int HC:	0.00	
 Bunker Section Description Purchased By C CP Delivery	I I harterer	=O qty	IFO prc N	1DO qty	MDO prc	LSO qty	LSO prc				×	
Delivery Differe CP Redelivery Purchase For O Project Redelivery Redelivery Diffe	nce wner ery erence											

Time Charter Billing: Prepaid Fuels

IMOS includes support for payments for prepaid fuels, when you buy only the bunkers you estimate you'll need, paying for consumption, rather than paying for inventory on redelivery. To select prepaid amounts, in the Operations Center, under Time Charter, click **Billing**.



On the Time Charter Billing form, click

Item Select

	Item Select						×
	Time Charter Hire	Additional TC Hire	Description	IFO	MDO	MGO	
Prepaid Fuels —	Broker Commission(s)	Hire Adjustment	Pre-paid				-
1	Address Commission	Misc Adjustments 0	Cost On Delivery	Г			
	Gratuities For Period	Voyage Expenses 0	Adj On Delivery				
		Hire Adjustment On Delivery	Cost On Redelivery				
	🗖 Repr. Exp. / Allowances	🗖 Hire Adjustment On Redelivery	Purchased For Owner				
	Victualling	LOHC	Adj On Redelivery	Г	Г		
	Lashing And Stowage	🗖 Intermediate HC	Off Hire				
		🗖 Ballast Bonus	Off Hire Adj				
	Off Hire						
	Voy From GMT H	Hours IFO gty IFO prc MDO gty M	DO pre MGO gty MGO pre	% S			
							<u></u>
							-
	Voyage Rebillables				Г	Off Hire	Off Hire Adj
	Voyage Rebillables	Amount T S			Г	Off Hire	Coff Hire Adj
	Voyage Rebillables Voy Description	Amount T S	A.		Г	Off Hire	Off Hire Adj
	Voyage Rebillables Voy Description	Amount T S	-		г	Off Hire	Off Hire Adj
	Voyage Rebillables Voy Description	Amount T S			г	Off Hire	♥ Off Hire Adj
	Voyage Rebillables Voy Description	Amount T S	Ă		г	Off Hire	Cff Hire Adj
	Voyage Rebillables Voy Description	Amount T S	A		г	Off Hire	Coff Hire Adj
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	Voyage Rebillables Voy Description	Amount T S			г	Off Hire	Off Hire Adj

On the Item Select form, select the check boxes for the fuels you want to prepay and click OK.

On the Time Charter Billing form, in the Days|Qty column, enter the amount of bunkers that you want to prepay.

IMOS reverses the prepaid amount from the Bunkers on Redelivery.

Other Information: Speed Consumption Table

To work with the Speed Consumption Table on the Other Information form, click

Definition in the Time Charter Manager. Consumption is differentiated by fuel type.

	🔲 Other 1	Information	t.									×
	Lashing Ar	nd Stowage (3	30 Days):	0.00	Victualling (30 Da	ays);	0.00	Repr. Exp. /	Allowa	rces (30 Days):	0.00	-
	Lashing	And Stowage	Monthly:	0.00	Victualling Mon	thly:	0.00	Repr. Exp.	/ Allow	vances Monthly:	0.00	
		Fuel Generat	or / Day:	0.00	Diesel Generator / I	Day:	0.00	Beaufort:	0	Job COA No:		
Speed	Speed Cor	nsumption Tab	le (Per Day)									
Consumption	Speed	IFO (L)	IFO (B)	MDO (L)	MDO (B)							
	13.00	17.00	0.00	1.30	0.00							-
Click to add a	13.50	0.00	17.00	0.00	1.30							
speed.					Click	here to add a	won e					
												-
			1.35 555									
	01		Descriptio	n								
	Other Com	iments										-
	Increment											
	Cargos											_
	Pumping											
	Heat/Clear	n										
	Delivery											
	Delivery Fi	uel/Price										
	Redelivery	'										
	Redelivery	Fuel/Price										
	Clean/Dirty	у										
	Off Hire											
	On Hire											
	Drydocking)										
	Trade Limit											
	Lay OP											
	Ship Ship											
	Next Emple	oyment										
	Next Caro	0										-
			10									- Contraction of the second
												4

Time Charter Out Manager

Rather than using the Tramper or Average methods to calculate bunker prices for ballasting and repositioning costs, you can use FIFO on a Time Charter Out and calculate the costs based on the inventory prices used in the Voyage Manager. (Enter the Bunker Calculation Method in the Voyage Manager; see page 17.)

			.ger										
	28	• × •	D Other		on Lifting Opti	on 📑 Hire Sta	tement [Issue Bil	Ez Sch		pe 🔂 T		🖬 Report 👻
	Vessel:			TC C	Iode:	CP Dat	e:	11	Charterec	By:		æ	
	Ref No:			Hire Curre	ency: USD	Exchange Rat	te: 1.0	000000		Company:		Billed	
	Duration:	0.0000		Billing Pe	eriod: 0	Fixed Dat	e:	11		Fixed By:		B [®] Broke	r(s)
	Laycan Fr:		Rebilla	ible Admin Fee	(%): 0.00	Ballast Bonu	JS:	0.00	🕫 Gratui	ities per 30 D	ays	t _o l voya	je(s) bment(c)
	Laycan To:					📕 Ballast Bor	nus Commis	sionable	C Gratui	ities Average	Monthly	() Accor	finicine(3)
		Delivered		E F	Redelivered	Closed			C Gratui	ities Monthly			
	Del Port:		Red	del Port:		Broker	Ra	ate Type	F	Gratuities:	0.00		
	CP Del GMT:		CP Rec	del GMT:		Cli	ck here to	add a row	<u> </u>	TC Adj:	0.00		
	Act Del GMT:		Prj Rec	del GMT:						ILOHC:	0.00		
	Diff (Hours):	0.0	Diff ((Hours):	0.00				Ψ.	Int HC:	0.00		
	Hire Informal	on			I		-		-		-		
	# Fr	om GMT	To GMT	Duration	Rate/Hour	Rate/Day	TCL Ins	Bonus/Ho	our Comn	nents	1000	-	
					Click here b	add a row					-	1	
											100	-1	
	Bunker Sectio	1									Y	<u>r</u>]	
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The line item Purchased by Charterer applies to bunkers purchased before the vessel is delivered. As you stem the bunkers on the previous voyage, you can indicate how much was prepurchased by the charterer before the vessel is delivered; that amount will be deducted from the price at which you sell the bunkers on delivery. Quantities remaining on board are synchronized with the voyage.

You can also indicate that bunkers on the charterer's account are being paid on a consumption basis (see page 23) and select the following bunker purchase options:

- Bunker On Owner: For the time charter contract, the owner will pay for bunkers, rather than the charterer.
- Bunker Rebillable: Bunkers are on the owner's account, but some are rebillable to the charterer.
- Bunker Purchase Paid By Owner: Bunkers are purchased on the owner's account.

IMOS tracks the difference between bunker inventory price and sale price and does a different FIFO calculation to adjust the Profit & Loss for money made or lost on the purchase and sale of bunkers in the time charter.