



FMT-MAT-V1
Marine Λsset Tracker



Scan to browse



Index

		Page
1	About Company	3
2	Hardware Specification	4
3	FMT Architecture	5
4	Overview	6
5	Key Benefits	6
6	Technology	7
7	Satellite Coverage	7
8	Track by Distance	8
9	V-Mail	10
10	FMT Control Panel	12
11	Automatic Position Report	14

About Company



Falcon Mega Solutions (FMS) is a leading service provider, and offers a state-of-the-art Tracking, Monitoring, and Security Solutions to Offshore, Marine and Fishing Industry.

We have a strong commitment for the continuous Research & Development and Improvement of our Solutions and Services. We aim to be the dominant Service Provider in the Maritime Security, Asset Monitoring, Tracking and Surveillance worldwide.





Our mission is to provide reliable and efficient technology to assist in making the Safe & Secure Sea for the vessels and their crew.

Hardware Specification

Satellite Communication

Make: Orbcomm

Inmarsat, Two-way, ISatData

Satellite: Pro Satellite Service, Global

Coverage

Electrical

Input 12 to 30V DC

Rx: 45mA, with GPS: 60mA

Power: Tx: 0.75A

Sleep: 100 micro A

Certification

Type Germanischer Lloyd, Approval: Inmarsat, IP67

CE (R&TTE, RoHS 2), FCC,

Regulatory: IC, Anatel, MSS Russia, SRRC, RCM Mark, IEC

60945. C1D2

GPS / Glonass

Elevation
Angle: -15 to +90 Deg

Acquisition Hot: 1 second;

time: Cold: 29/30 seconds

Accuracy: 2.5m/4.0m CEP-Horizontal

Environmental

Operating -40C to +85C

Dust/Water

Ingress: IP67

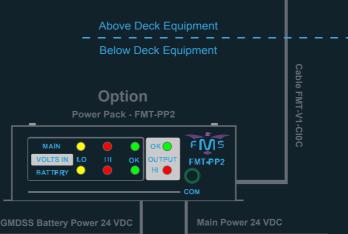
SAE J1455

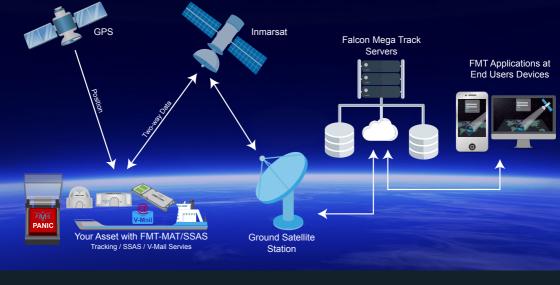
Vibration: (Sec 4.9.4.2 fig 6-8);

MIL-STD-810G (Sec 514.6)

Shock: MIL-STD-810G (Sec 516.6)















Overview

FMT-MAT-V1 is a Satellite ISatData Pro Terminal, programmed with Marine Asset Tracking, enables companies to track and monitor their vessels and boats, giving them increased visibility of business operations, enhanced efficiency, and greater safety and security for their vessels and boats, while lowering operational costs.

Secure HTTP encryption and password-protected identification ensure that sensitive data remains safe.

Key Benefits

- Inmarsat Type Approve, CE Mark, FCC, RoHS, Anatel; Perfect for harsh marine environment;
- 2. Global Coverage of Inmarsat;
- 3. Quick Activation;
- 4. User Friendly Control Panel;
- 5. Prepaid Airtime System FMT Units
- 6. Airtime usage report;
- 7. Distance and Bearing from 5 nearest Ports;
- 8. Two Years Tracking History;
- Astronomical Calculations e.g. Sun Rise, Sun Set, Dawn, Solar Noon, Dusk, Day Light Period, Night Period;
- 10. Global Weather and Forecasting;
- 11. All standard tracking feature available;

Applications

















Technology

- ISatData Pro Satellite Terminals, by Orbcomm, one of the leading company in the world for the development of M2M Satellite Terminal of Maritime Industry. IDP terminals are highly reliable and high efficient;
- 2. Robust hardware to stand with harsh marine Environment;
- Highly Reliable Servers, 99.99% up time, running 24/7
 with FMT Control Panel, the core application is the back
 bone of SSAS & Tracking system;
- 4. Secure Web Access to FMT Control Panel through HTTPS, powered by Professional SSL Certificates;
- 5. 24/7 Technical Support;
- 6. Continuous development and Improvement;
- 7. Prepaid Billing System, with 2 years billing and usage history online;
- 8. V-Mail Software specifically designed for IDP terminals, and with additional support of FleetBroadband and Terrestrial or Satellite Internet, to enhance Routine and Emergency Communication.

Satellite Coverage





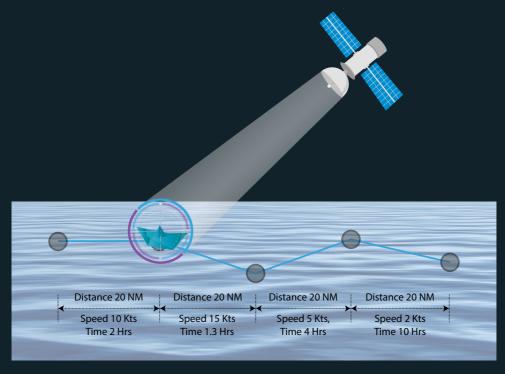
Track by Distance ™

Track by Distance [™] (TBD), developed by FMS, is an Application for Orbcomm IDP Terminal to economize the use of prepaid Airtime Units for the benefit of the customers of FMS. In addition to Time based Automatic Position Reports (APR), TBD Application enables IDP Terminals to sends the APRs at set distance travelled, and that is really a true tracking of a vessel.

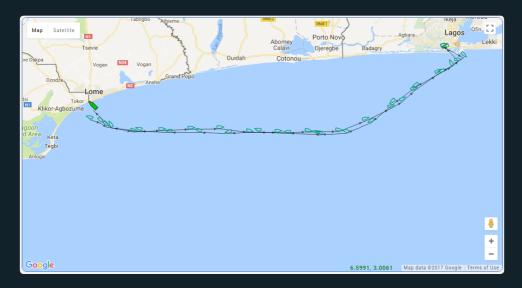
For Example, a Vessel is set on 2 APR per day, and 20 mile distance, the vessel will just send 2 APR/day while she is not moving, i.e. in port or at anchorage; and automatically starts APRs every 20 miles while she is moving, i.e. making way for the voyage.



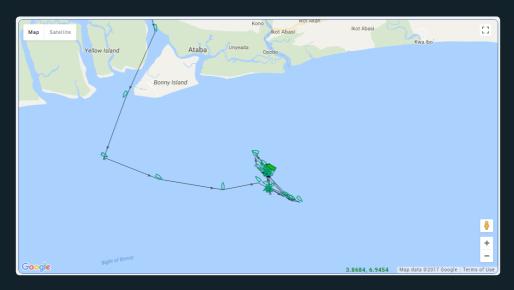
This feature not only helps avoiding unnecessary APRs for CSO's time saving, but also saves the Airtime Units while vessel is not moving, and ALERTS the CSO / managers of the vessels against unauthorised movement of the vessel.



Track by Distance ON



Track by Distance OFF





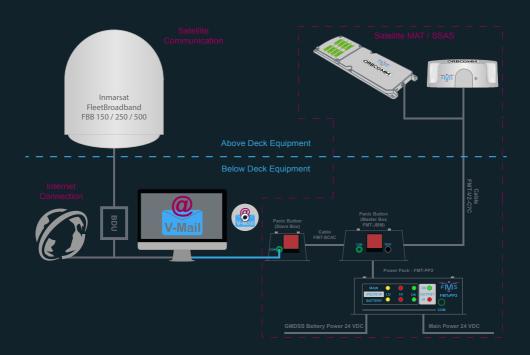
V-Mail

V-Mail Client is an email client that allows the vessels to send and receive short email messages through various FMT-SSAS/MAT terminals, and full functionality through Inmarsat FleetBroadband or any other INTERNET connection available. Vessel may use one or both connectives simultaneously.

Benefits of V-Mail

- 1. User Friendly; Low Cost Satellite Email Solution;
- 2. Two Connection, Two Email addresses but one email client; Ability to use two email address simultaneously, one for FMT IDP Terminals (Email Messaging only, without file attachment) and one for FBB/Internet emails (with file attachment support);
- 3. Much simple and user friendly as compared to major marine email clients e.g. Amosconnect, SkyFiles, GT Mail Plus etc.
- 4. Lowest License fee;
- 5. Full Functional Free Trial is available for customer satisfaction before purchasing of License;
- 6. Free License to use with FMT Terminals; e.g. FMT-SSAS-V1, FMT-SSAS-V2, FMT-MAT-V1, FMT-MAT-V2;
- 7. High cost saving on FBB airtime bills;
- 8. Perfect solution with use of FMT Email Servers and V-Mail Client to control over the data usage and SPAM filtering;

- 9. Capability to Send and Receive emails through Inmarsat FleetBroadband (FBB) and any other Internet Connection available onboard, in addition to FMT IDP (SkyWave/Orbcomm) Terminals;
- 10. 24/7 Connectivity through FMT IDP terminals without any stand-by cost of airtime;
- 11. 27/7 Connectivity, manual connection or on demand connection for FBB/Internet:
- 12. Full control by Vessel Management through FMT Control Panel at www. falconmegatrack.com control email text size, attachment size, black list and white list email recipients,
- 13. Remote Communication Monitoring by Vessel Management; functionality of auto CC and auto BCC to particular email address for communication control and backup purpose;
- 14. Future Plan for Android V-Mail Client for Mobile Phone and Tablets via Wi-Fi Connection, to eliminate the use of PC; useful for small boats where computer is not available wheel house;



FMT Control Panel

FMT Control Panel provides versatile features to control over the entire Fleet of the Company, with secure web access at https://www.falconmegatrack.com

FMT Control Panel Features



Asset Details



Customer Account Details



Notification Setting



Change Password



Set Position Report Interval



V-Mail



Poll Position Report



V-Mail Message Settings



Ship Security Alert System



V-Mail Message Filters



Place Markers



Assets NOT Reporting



Maps



SSAS Test (Warning)

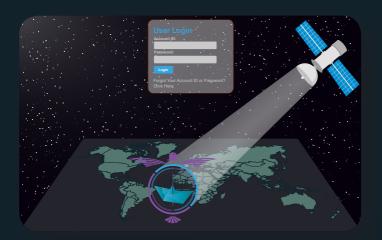


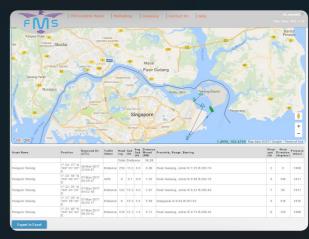
Register Vessel



Customer Billing (Airtime)
Detail

Online Map & History







Sample Position Report

Position Report [Sample Vessel]

Sender: Tracking-NoReply
Received: sample@yourdomain.com

Date: 26-Sep-17 01:29:28





Position Report [Time]



Map history from 19-Feb-2016 06:29:46 to 26-Sep-2017 00:28:28 (UTC)

Asset Detail					Help	
Asset Name:	me: Sample Vessel					
Mobile ID:	01039997SKY1234					
Transceiver:	FMT_MAT_V1					
IMO:	1234567					
MMSI:	123456789					
Call Sign:	AV1234					
Received On:	26-Sep-2017 00:28:28 (UTC)					
Position:	Lat: 1° 13' 19" N, Long: 103° 44' 36" E					
Heading:	0 degrees					
Speed:	0 knots					
Average Speed:	0.0 knots					
Distance Moved:	0.1 NM from last position (1° 13' 19" N, 103° 44' 29" E) in 14015h-59m.					
Proximities He						
Proximity: Singapore; Range: 06.0 NM Bearing: 063.6 Degree						
Well Known Nearest S # Country P	cea Ports ort	Lat	Long	Range (NM)	Bearing	
0 1	ingapore	01.27	103.83	06.0	63.6	
,	anjung Pelepas, Johor	01.35	103.53	14.7	301.4	
,	asir Gudang, Johor	01.43	103.90	15.7	36.5	
	ort Dickson	02.52	101.78	140.6	303.5	
5. Malaysia K	uantan (Tanjong Gelang)	03.97	103.43	164.6	353.6	

Astronomical Calculations				
Description	UTC (start-end)	Calculated Time Zone Offset +8		
Dawn:	22:33	06:33		
Sunrise:	22:54 - 22:56	06:54 - 06:56		
Solar Noon:	04:57	12:57		
Sunset:	10:58 - 11:00	18:58 - 19:00		
Dusk:	11:21 19:21			
Day Light:	22:56 - 11:00	06:56 - 19:00		
Night:	11:45 - 22:09	19:45 - 06:09		
Weather			Help	
Temperature:	82.2 F (27.9 C)			
Wind:	Calm			
Wind Direction:	254 degrees			
Pressure:	1010 mbar			
Visibility:	6.2 miles			
Weather:	Mostly Cloudy			

Regards,

Customer Support: support@falconmegasolutions.com
Phone: +92 49 2723682 [09:00 ~ 18:00 (UTC+5)]
Emergency Contact 24/7: +92-322 4163545
web: www.falconmegastrack.com
skype: falconmegasolutions
twitter: falconmegasols

© Copyright Falcon Mega Solutions



Falcon Mega Solutions

www.falconmegasolutions.com

Sales Team

sales@falconmegasolutions.com +92 49 2723682 / +92 322 4163545

[08:00 ~ 17:00 (UTC+5)]

