CAISSAT PRIME

Imani Prima
we're simple

GLOBAL CONNECTIVITY IS IN OUR HAND

PORT PRIME

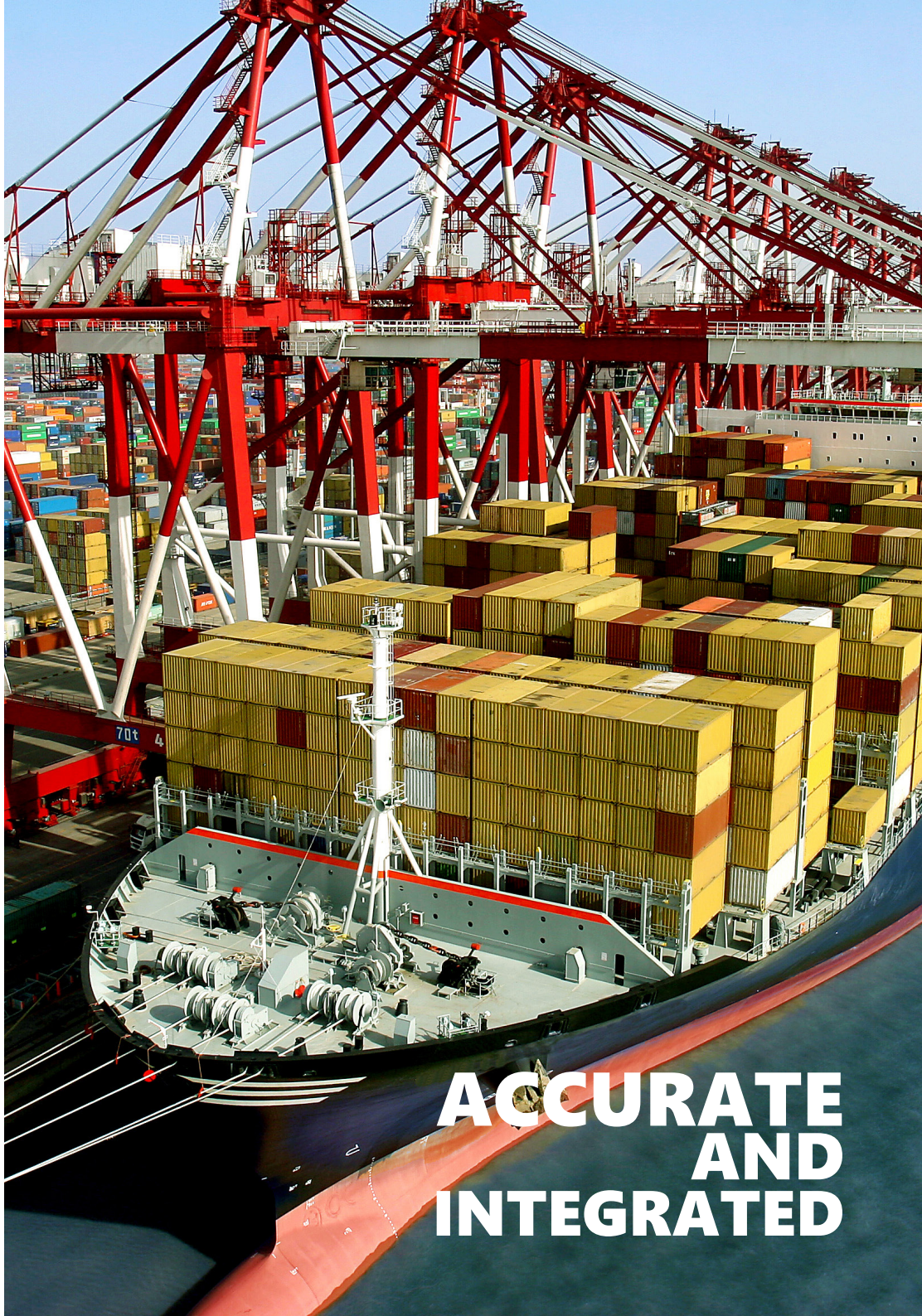
PortPrime is a product part of AISSAT Prime, a real-time vessel tracking of every vessel around ports area with range around 30 nautical mile from AISSAT's terrestrial AIS receiver stations network coverage.

KEY FEATURES

- 40+ AIS stations spread across major waterways and ports throughout Indonesia
- User-friendly web-based map view
- Vessel search
- History vessel tracks
- Data statistic for every port
- Weather (wind conditions)
- Interactive distance measurement feature
- Client selected vessel with geofence, route and alert features
- Export record data into csv or xls format
- No more equipment installation for vessels that meet SOLAS Chapter V
- No software installation on client side

We developed the hardware ourselves. Here's a sneek peek specification of AISSAT PortPrime Station:

- Brand : AISSAT PortPrime Station
- Model : AIS Station
- Type : AS-RJ45/AS-GPRS
- Received sensitivity : -112 dBm @ PER ≤ 20%
- Power Supply : 110 - 220 VAC Frequency : 156.025 ~ 162.025 MHz
- Connectivity : RJ45 or GPRS (choose one)
- Battery Backup : 20 AH, 7 days
- Support Solar Panel Input power

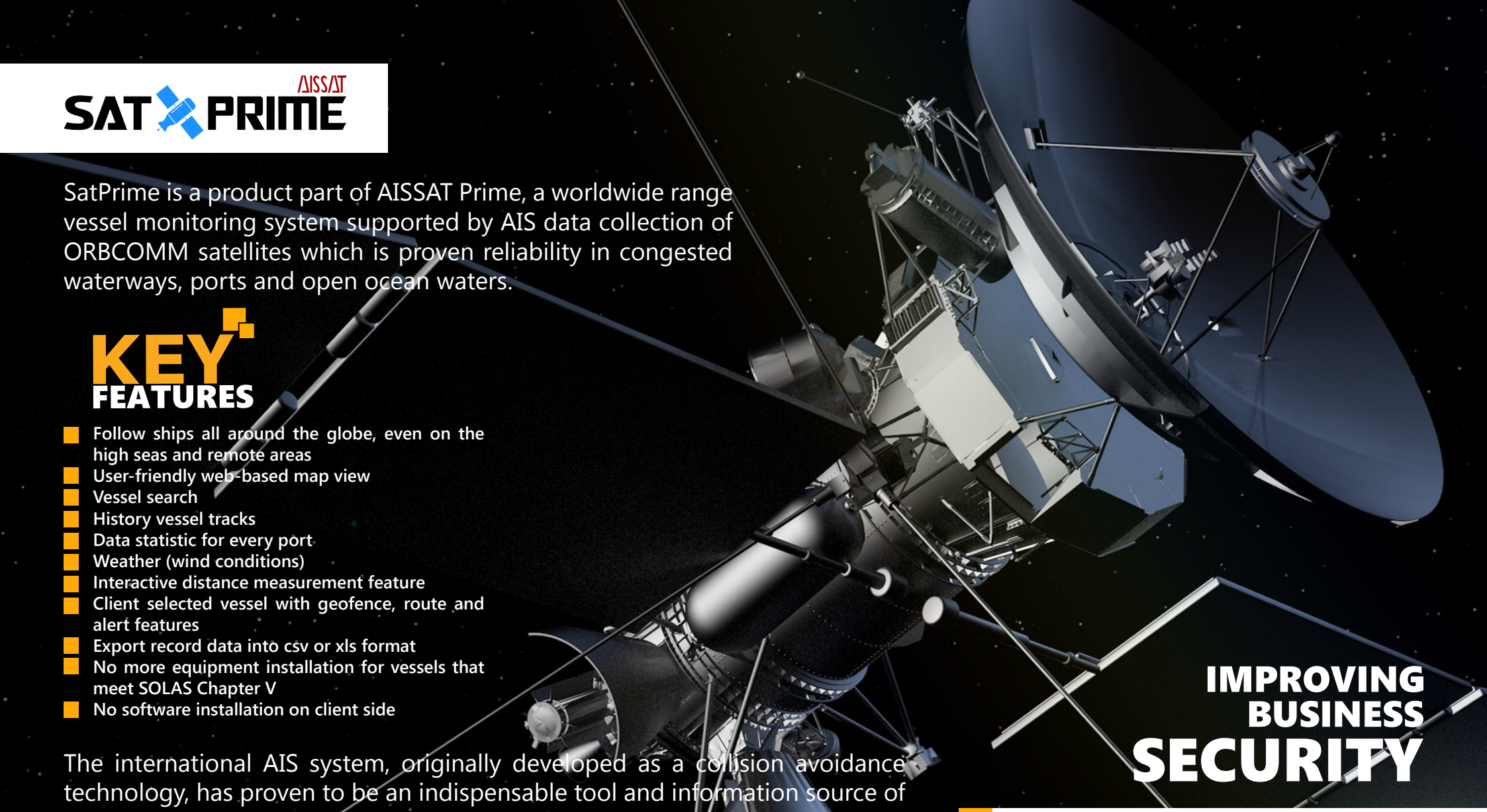


SAT PRIME AISSAT

SatPrime is a product part of AISSAT Prime, a worldwide range vessel monitoring system supported by AIS data collection of ORBCOMM satellites which is proven reliability in congested waterways, ports and open ocean waters.

KEY FEATURES

- Follow ships all around the globe, even on the high seas and remote areas
- User-friendly web-based map view
- Vessel search
- History vessel tracks
- Data statistic for every port
- Weather (wind conditions)
- Interactive distance measurement feature
- Client selected vessel with geofence, route and alert features
- Export record data into csv or xls format
- No more equipment installation for vessels that meet SOLAS Chapter V
- No software installation on client side



IMPROVING BUSINESS SECURITY

The international AIS system, originally developed as a collision avoidance technology, has proven to be an indispensable tool and information source of unrivaled quality for the maritime world.
Additionally, AISSAT has teamed up with partner ORBCOMM, enabling you to track and follow vessels sailing the open seas through satellite AIS technology. ORBCOMM satellites process 28 million messages daily from 300,000 AIS transponders, 86% with an average latency of less than one minute, AISSAT brings you the best in today's AIS tracking!

PARTNERS

ORBCOMM™

- User-friendly web-based map view
- Vessel search feature
- Tracking vessel activity feature
- Data statistic for every port
- Interactive distance measurement feature
- Geo fence and alert features
- Export record data into csv format
- No more equipment installation for vessels that meet SOLAS Chapter V
- No software installation on client side

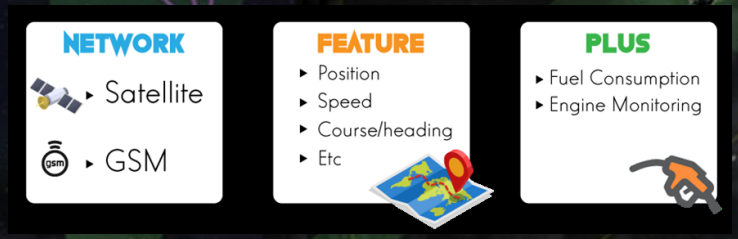
- High user-friendly web-based map view
- World-wide range covered area
- Monitoring data statistic for every port
- Vessel search feature
- Tracking vessel feature
- Interactive ruler feature
- Geo fence and alert features
- Export record data into csv format
- No more equipment installation for vessels that meet SOLAS Chapter V
- No software installation on client side

THE LARGEST **AIS STATION** NETWORK **IN INDONESIA**

M2PRIME

AISSAT

M2Prime is a product part of AISSAT Prime, a vessel monitoring system not only for its position but can also monitor fuel, engine, and other possible parameters just like what presented on the dashboard.



MONITORING PARAMETERS

- Fuel Consumption
- Fuel Bunkering, Fuel Tank Level
- RPM Main Engine, RPM Secondary Engine, RPM Auxillary
- Fuel Supply Bypass Status
- Fuel Supply Maintenance Status
- Fuel Return Bypass Status
- Alarm (Main Box, Flowmeter Box, Tampering, Power Disconnect, etc)
- Alarm Geofence (out of zone/in of zone)
- Length of time on each of geofencing area

TRUSTED GUIDANCE FOR LOGISTICS PLAYERS

SOFTWARE SPECIFICATION

MAP TRACKING FUNCTION

- Globally Accessible
- Zoom In & Zoom Out
- Vessel location & Tracking
- Playback of Previous Vessel Position
- Support Offline Tracking in Google Earth
- View Raw Data Tracking, Fuel Consumption, RPM and Data Sensors (optional)

WEB BASED SOFTWARE

- Globally Accessible
- User Access Control (Admin, Operator)
- Redundance Reliable Servers
- Linux Based Server
- Full Security Server

DATA PROCESSING

- Hourly, Daily, Monthly display of fuel usage, RPM and Data Sensors (optional)
- Alert Display
- Geofence Area Configuration

DOCUMENT EXPORT

- Export to excel or csv document
- Auto Transmission Report: Email, SMS, FTP
- XML-Web-API (Application to Application)

HARDWARE SPECIFICATION

CORE MODULE: M2PRIME MODULE

- 5 Analog Input (DC Current 4-20 mA)
- 5 Analog Input (AC Current)
- 5 Analog Input (AC/DC Voltage up to 24V)
- 16 Digital Input
- 6 digital interrupt
- Up to 20 Relay output (Customize)
- SD Card 8GB for up to 1 Year RPM Log data
- Wide Range Supply Input power 9 - 32 Volt
- RS-232
- RS-485 (Modbus)

ENCLOSURE/PANEL

- ATEX/Marine Standard
- IP-66 Standard (Dust Proof, Water Proof)
- Door Sensor/Tamper sensor
- Magnetic Sensor
- Battery

SATELLITE MODEM

- Compatible with Multi Platform Satellite
- Compatible with Multi mode modem (GPRS, HSPA, Satellite)

FLOW METER SENSOR

- Positive Displacement (PD) Flow meter
- Corioliss Mass Flow meter
- Turbine Flow meter
- Piston Flow meter

RPM SENSORS

- Proximity Sensor (Not using existing RPM sensor)
- Tapping data from existing RPM sensor

ENGINE STATUS

- Auxiliary & Main Engine Hour Sensor
- Auxiliary & Main Engine ON/OFF detection

ANEMOMETER SENSOR (OPTIONAL)

- Anemometer sensor used for overview weather condition

DAILY TANK LEVEL SENSOR

- Measure remain daily fuel tank level

VESSEL MONITORING SYSTEM

- Highly user-friendly web-based map view
- World-wide range covered area monitoring
- Tracking vessel feature
  Statistic data reporting feature
- Client's customized data monitoring system
- Export record data into csv format
- Geo fence and alert features

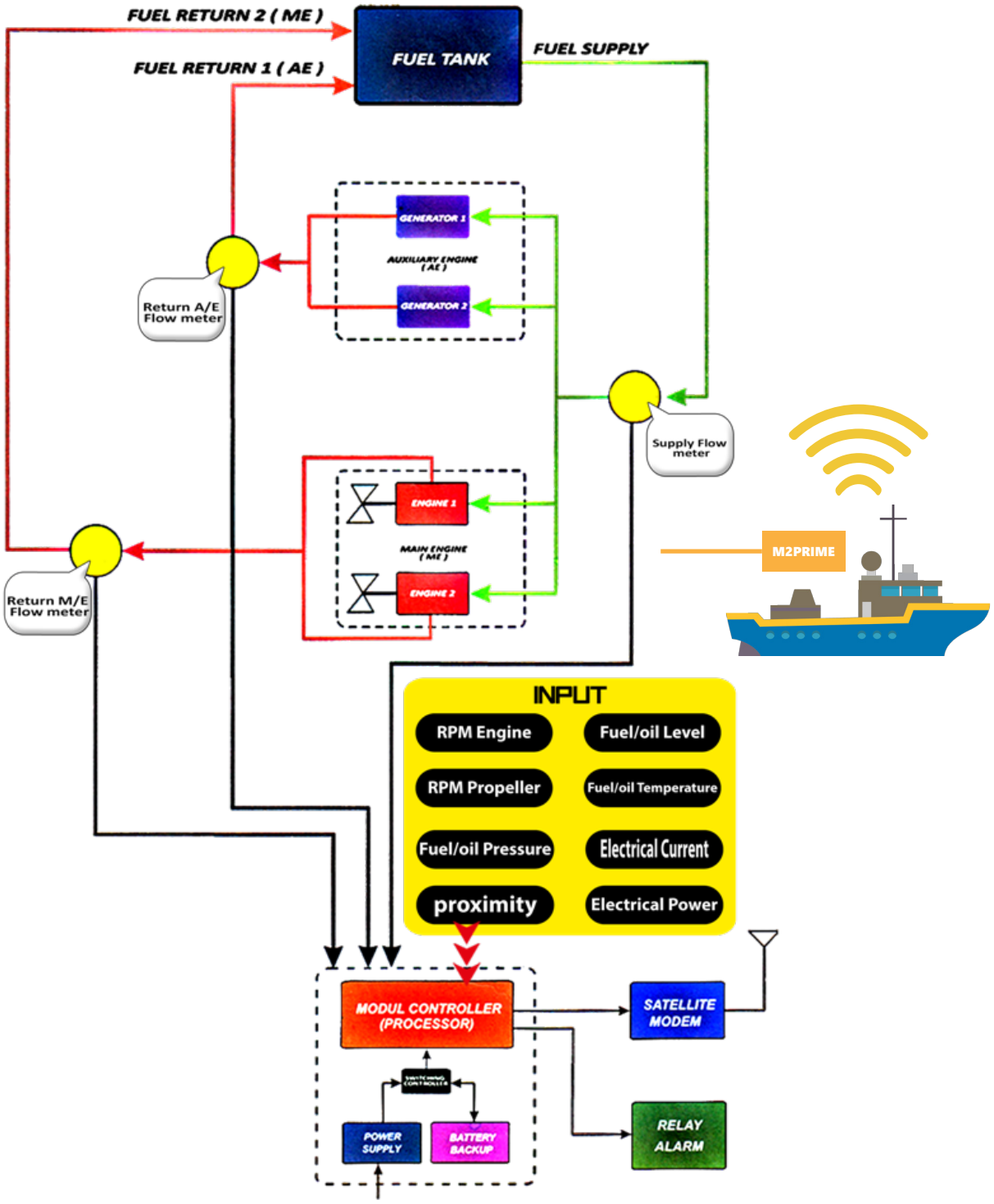
SEARCH AND **TRACK** **VARIOUS VESSEL**

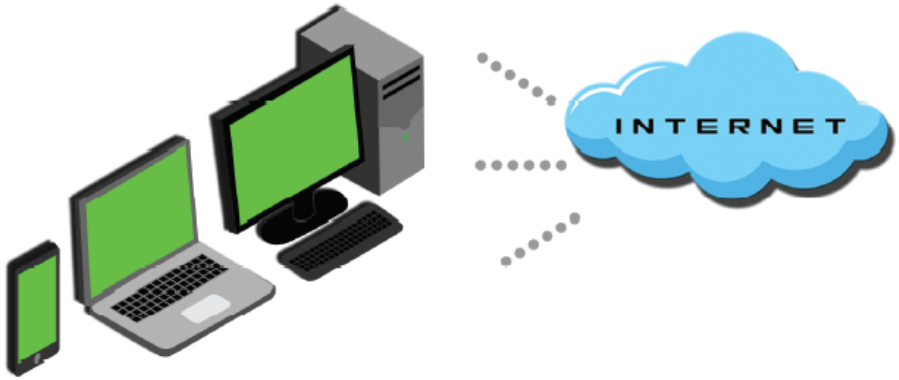
www.aissat.com

FUEL MONITORING SYSTEM

- Fuel Consumption
- Fuel Bunkering, Fuel Tank Level
- RPM Main Engine , RPM Secondary Engine, RPM Auxillary
- Fuel Supply Baypass Status
- Fuel Supply Maintenance Status
- Fuel Return Bypass Status
- Alarm (Main Box, Flow meter Box Tampering, Power Disconnect, etc)
- Alarm geofence (out of zone / in of zone)
- Length of time on each geofencing area

KEY FEATURES





HOW IT WORKS

- Tracking Monitoring system which made reference to applicable standard (IMO; Solas Chapter V Reg 19.1 LRIT, etc)
- Data tracking is sent realtime using Satellite with worldwide coverage
- Monitoring parameters are vessel identity, time stamp, position, speed, course/heading, distance
- Alarm inside/outside of geofencing area implementation
- There is no blank spot anytime and anywhere

ST 6100

The next generation satellite terminal—more powerful, more versatile, more coverage.

Reliably track, monitor and control assets in some of the word's most isolated regions.

PRODUCT OVERVIEW

What You Get

SATELLITE COMMUNICATION

- Satellite service: two-way, Global, IsatData Pro
- From-mobile message: 6,400 bytes
- To-mobile message: 10,000 bytes
- Typical latency: <15 sec, 100 bytes
- Elevation angle: -5° to +90°
- Frequency: Rx: 1518.0 to 1559.0 MHz;
  Tx: 1626.5 to 1660.5 MHz;
  1668.0 to 1675.0 MHz
- EIRP: <7.0 dBW

GPS/GLONASS/BEIDOU

- Acquisition time: Hot: 1 second; Cold: 29/30/36 seconds
- Accuracy: 2.0m CEP
- Sensitivity:
  - »»Acquisition: -148 dBm
  - »»Tracking: -163 dBm

CERTIFICATION

- Regulatory: CE, FCC, IC, Anatel, RCM Mark, IEC 60945, C1D2, SRRC, IFT, ICASA, FFA;Pending: MSS Russia
- Others: Inmarsat Type Approval, IP67

ELECTRICAL

- Input voltage: 9 to 32V; Load dump protection: +150V; SAE J1455 (Sec. 4.13)
- Power consumption (typical average @12V DC, 22°C):
  - »» IDP Receive: 65 mA;
  - »» GPS/Glonass/Beidou Receive: 22 mA;
  - »» Transmit: 0.65 A;
  - »» Sleep: 100 µA

DIMENSIONS

- 12.6 cm x 12.6 cm x 4.9 c

EXTERNAL INTERFACES

- Inputs/outputs: 4 analog or digital in/out
- Serial: RS-232; RS-485

ENVIRONMENTAL

- Operating temperature: -40°C to +85°C
- Dust and water ingress: IP67
- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G (Sec 514.6)
- Shock: MIL-STD-810G (Sec 516.6)

Programming

- Lua scripting engine with core services. SDK with GUI development tools available. Lua software application upgradable over the air (SOTA).
- Core services: Geofence, data logger, position reporting, accelerometer events, serial communications.
- Optional configurable device-level applications, including:
  - »» Analytics Agent - Notifications and reports for driver behaviour and vehicle/asset performance.
  - »» AVL Agent - Facilitates integration of ST 6100 terminals into fleet management solutions.
  - »» Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices.
  - »» Garmin FMI Agent – Fleet management support for two-way text messaging, stops, driver ID, hours of service, file-transfer, custom forms, and speeding alerts

ACCELEROMETER

- 3-axis accelerometer

MEMORY

- Lua Code RAM: 4MB
- Lua Code NVM: 6M

OPTIONS

- Side or bottom connector variant

ORDERING CODES/RELATED PRODUCTS

ST6100-SXX ST 6100 Terminal, Side Connector
ST6100-BXX ST 6100 Terminal, Bottom Connector
ST6100-BXXC ST 6100 Terminal, Bottom Connector, C1D2
ST100679-001 ST 6100 Development Kit
ST100030-001 Mating Cable Connector Kit with Solder Cups

IDP-782

Cellular and satellite-cellular terminals for fleet management applications

The fully programmable, feature-rich IDP-782 delivers connectivity to assets over cellular and satellite networks.

SATELLITE COMMUNICATION

- Satellite service: Two-way, Global, IsatData Pro
- From-mobile message: 6,400 bytes
- To-mobile message: 10,000 bytes
- Typical latency: <15 sec, 100 bytes
- Elevation angle: +20° to +90° (remote antenna); -15° to +90° (low elevation antenna)
- Frequency: Rx: 1525.0 to 1559.0 MHz; Tx: 1626.5 to 1660.5 MHz
- EIRP: <7.0 dBW

CELLULAR COMMUNICATION

- GPRS frequencies: 850/900/1800/1900 MHz
- HSPA frequencies: 800/850/900/1900/2100 MHz
- SIM: 3.3V/1.8V SIM
- Security: jamming detection

GPS

- Acquisition time: hot: 1 second; cold: 27 seconds
- Accuracy: 2.5m CEP-horizontal
- Sensitivity: acquisition: -148 dBm; tracking: -159 dBm
- Security: GPS signal jamming detection

CERTIFICATION

- Regulatory: CE (R&TTE, RoHS 2), FCC, IC, PTCRB (HSPA only)
- Other: Inmarsat type approva

EXTERNAL INTERFACES

- Inputs/outputs: 4 x config. Analog/digital inputs/outputs 2 x dedicated outputs (sink-ground)
- Serial: 2 x RS-232; 1 x RS-485; 1-CAN bus; 1-Wire
- Accelerometer: 3 axis

ELECTRICAL

- Input voltage: 9 to 32V; load dump protection: +150V; SAE J1455 (Sec. 4.13)
- Battery backup: >12 hours operation with 1-minute cellular reporting or 10-minute satellite reporting

ENVIRONMENTAL

- Operating temperature: transceiver and antenna: -40°C to +85°C; back-up battery: -10°C to +60°C;
- Dust and water ingress: transceiver: IP40 (IP65 with optional shroud); satellite antenna: IP67; GPS antenna: IP67
- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD-810G
- Shock: MIL-STD-810G (Sec 516.6)

PROGRAMMING

- Lua scripting engine with core services. SDK with GUI development tools available. Lua software application upgradable over the air (SOTA).
- Geofencing: 128 Polygons
- Data Logger: 50,000 position reports; auto-upload in cellular coverage
- Optional, configurable device-level applications:
- AVL agent - facilitates integration of IDP terminals into fleet management solutions.
- Garmin Dispatch Agent - tracking, navigation, driver communication and dispatch using Garmin devices.
- J1939 Agent - vehicle CAN bus connectivity for monitoring driver behavior and vehicle/asset performance.
- ARC Agent - asset alarms, periodic reports and remote control.
- Analytics Agent - notifications and reports for driver behaviour and vehicle/asset performance.

STARTER KIT: Scan the QR code for complete details of the IDP-782 Starter Kit. It's everything you need to evaluate your IDP-782 in one box

ORDERING CODES/RELATED PRODUCTS

SM201329-HNU IDP-782 Transceiver with cellular antenna (HSPA)
SM201329-HBU IDP-782 Transceiver with cellular antenna (HSPA, Battery)
ST901065-AFA IDP Remote antenna
ST901066-AFA IDP Low elevation remote antenna
SM201361-001 IDP-782 Starter Kit (USA)
SM201361-002 IDP-782 Starter Kit (Rest of World)
SM201361-003 IDP-782 Starter Kit (Canada)

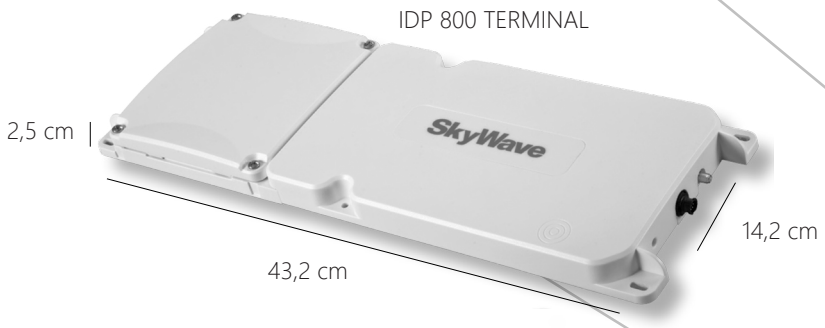
ST100340-001 IDP-782 Development Kit
ST100382 IDP-782 terminal shroud, IP65
SM201455 - HBA IDP-782 cellular, battery, AT&T
SM201455 - HNA IDP-782 cellular, AT&T
SM201455 - HBV IDP-782 cellular, battery, Vodafone
SM201455 - HNV IDP-782 cellular, Vodafone
ST100445 - 001 IDP-782 cellular antenna kit
ST100446 - 001 IDP-782 cellular external gps/gsm combo antenna

HIGHLIGHT THE SPECIFICATION

What You Get

IDP 800 SERIES

Satellite Communication Terminals



SATELLITE COMMUNICATION

- Satellite Service: Two-way, Global, IsatData Pro
- From-Mobile Message: 6,400 bytes
- To-Mobile Message: 10,000 bytes
- Typical Latency: <15 sec, 100 bytes
- Elevation Angle: +20° to +90° (Integrated or remoteantenna); -15° to +90° (Low elevation antenna)
- Frequency: Rx: 1525.0 to 1559.0 MHz;Tx: 1626.5 to 1660.5 MHz
- EIRP: 7.0 dBW

GPS/GLONASS

- Acquisition Time: Hot: 1s; Cold: 29s/30s• Accuracy: 2.5m/4.0m CEP-Horizontal
- Sensitivity (Tracking): -162 dBm/-158 dBm

CERTIFICATION

- Regulatory: CE (R&TTE, RoHS 2), FCC, IC, Inmarsat Type
- Approval
- Others: IP67

ELECTRICAL

- Input Voltage: 9 to 32V; Load dump protection: +150V; SAEJ1455 (Sec. 4.13); Auto Switchover
- Power Consumption (Typical @12V DC, 22°C):
  - »»Average receive: 8.3 mA;
  - »»Receive with GPS/GLONASS: 40 mA;
  - »»Transmit: 0.75 A;
  - »»Sleep: 100 µA;
  - »»Power off: 12 µA
- Battery Cells: 12 AA Cells
- Battery Chemistry: Rechargeable: NiMH;Nonrechargeable: LiFeS2

CHARGING

- Current: 1.33 A (at 12V

DIMENSIONS

- IDP 800: 43.2 cm x 14.7 cm x 2.5 cm
- IDP Remote Antenna: 12.6 cm x 9.3 cm x 7.4 cm
- IDP Remote Antenna Low Elevation: 12.6 cm x 9.3 cm x2.5 cm

MASS

- With batteries: 1.3 Kg (with integrated antenna

EXTERNAL INTERFACES

- Inputs/Outputs: 3 x Analog or Digital In/Out
- Serial: 1 x RS-232
- Accessories: 1-Wire adapter via RS-232 port

ENVIRONMENTAL

- Operating Temperature: -40°C to +85°C (batteries notincluded) ; -40°C to +60°C (Non-rechargeable) ; -10°C to+50°C (Rechargeable)
- Dust & Water Ingress: IP67
- Vibration: SAE J1455 (Sec 4.9.4.2 fig 6-8); MIL-STD- 810G(Sec 514.6)
- Shock: MIL-STD-810G (Sec 516.6)

PROGRAMMING

- Lua scripting engine with core services. SDK with GUIdevelopment tools available. Lua software applicationupgradable over the air (SOTA).
- User Data Memory: 3.5 MB
- Geofencing: 128 Polygons
- Data Logger: 50,000 Position Reports
- Optional, Configurable Device-Level Applications:
  - »» Analytics Agent - Notifications and reports for driver behaviour and vehicle/asset performance.
  - »» AVL Agent - Faciliates integration of IDP terminals into fleet management solutions.
  - »» Garmin Dispatch Agent - Tracking, navigation, driver communication and dispatch using Garmin devices

ORDERING CODES/RELATED PRODUCTS

SM201225 - CXX Integrated AntennaBatteries: Not Included/Non-Rechargeable
SM201225 - DXX Integrated AntennaBatteries: Included/Non-Rechargeable
SM201226 - CXX Integrated AntennaBatteries: Not Included/Rechargeable
SM201226 - DXX Integrated AntennaBatteries: Included/Rechargeable
SM201227 - CXX Remote AntennaBatteries: Not Included/Non-Rechargeable
SM201227 - DXX Remote AntennaBatteries: Included/Non-Rechargeable
SM201228 - CXX Remote AntennaBatteries: Not Included/Rechargeable
SM201228 - DXX Remote AntennaBatteries: Included/Rechargeable
ST100325 - 001 1-Wire Adapter
ST100231 - 001 Development Kit (Airtime, training and support included. Terminal purchased separately)

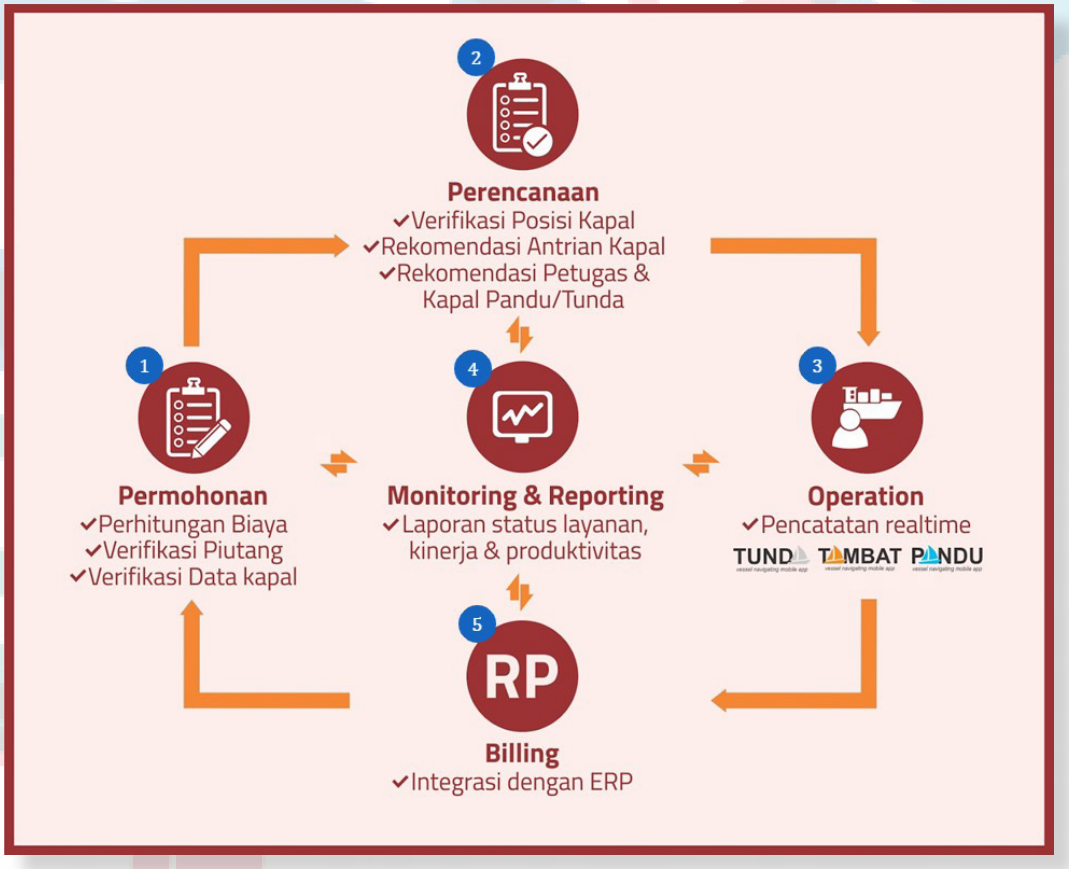
HIGHLIGHT
THE SPECIFICATION

What You Get

START TRACKING
TODAY!

The IDP - 800 development kit has everything you need to start experiencing the benefits of Skywave - enabled satellite tracking an monitoring solution.

PMPrime is a product part of AISSAT Prime, an integrated port management system, supports port operations and administrations of port authorities in managing and reporting all activities occurring at port (vessel arrival, anchoring, berthing, towing, and piloting services, till generate invoices).

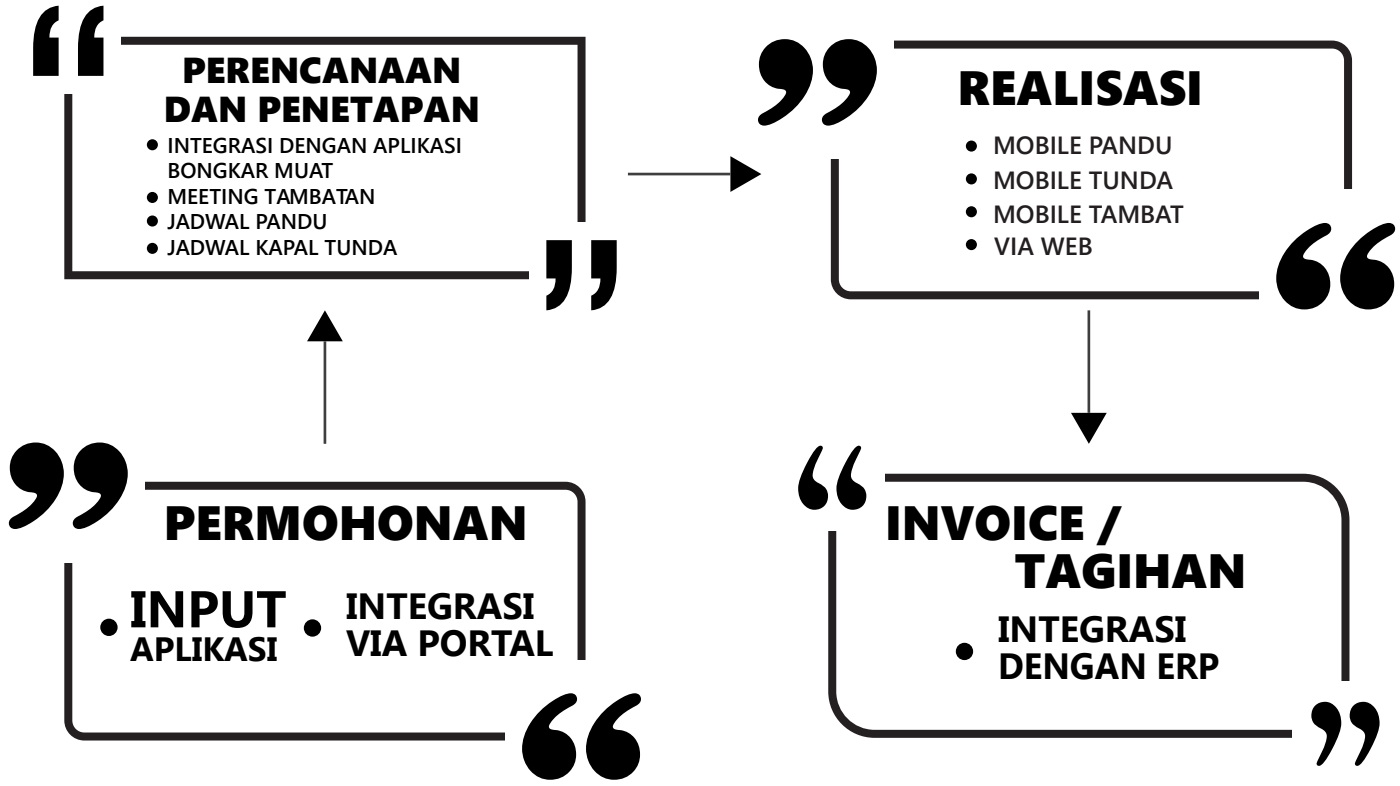


WORKFLOW PROCESS

The Mechanism

WORKFLOW PROCESS

The Mechanism



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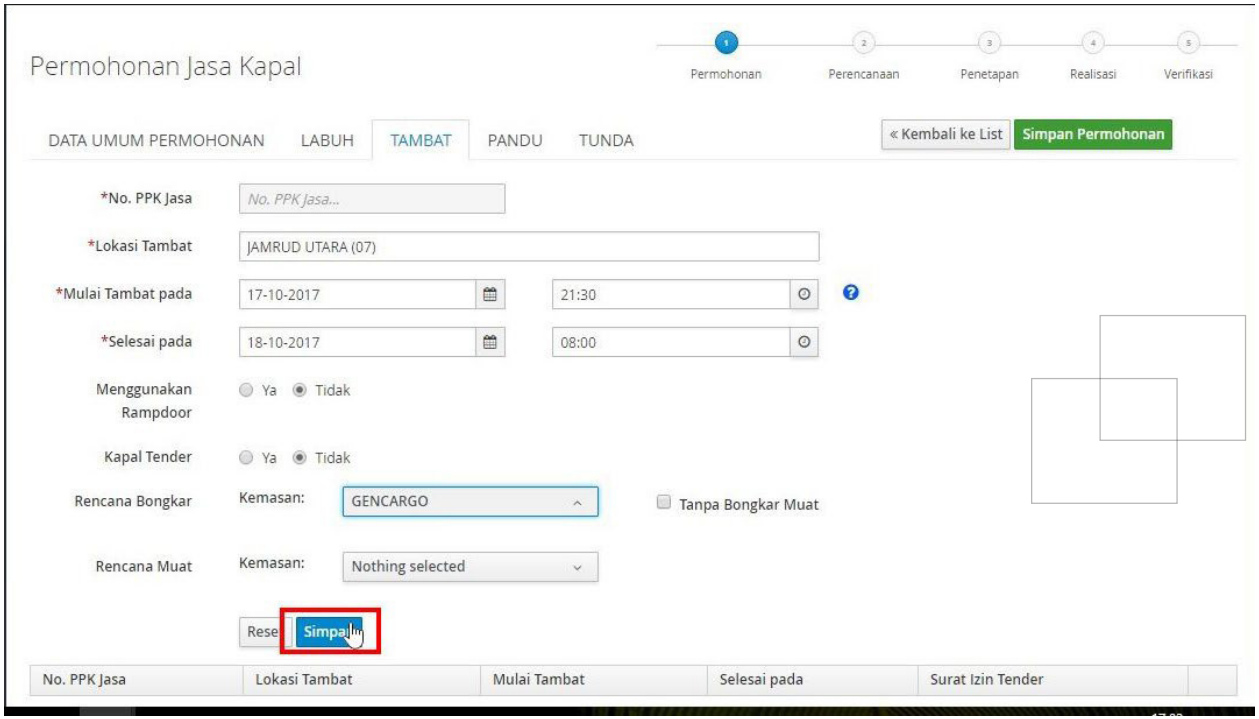
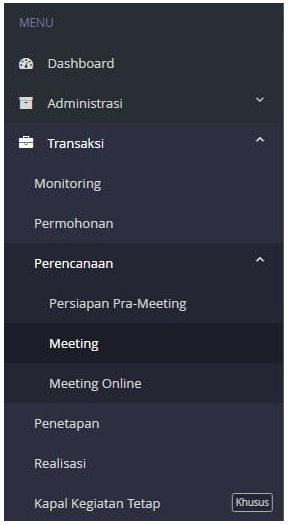
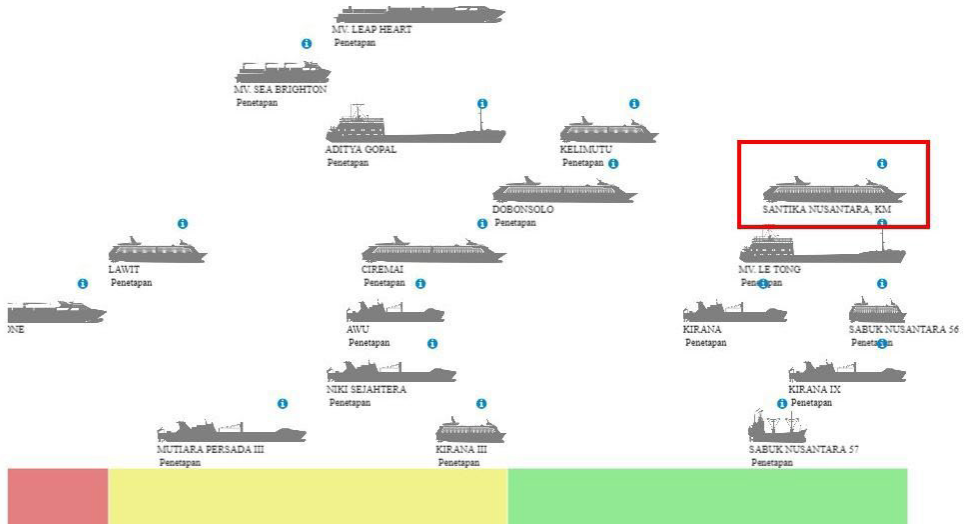


SCREEN CAPTURE

The Mechanism

PERENCANAAN (TAMBAT)

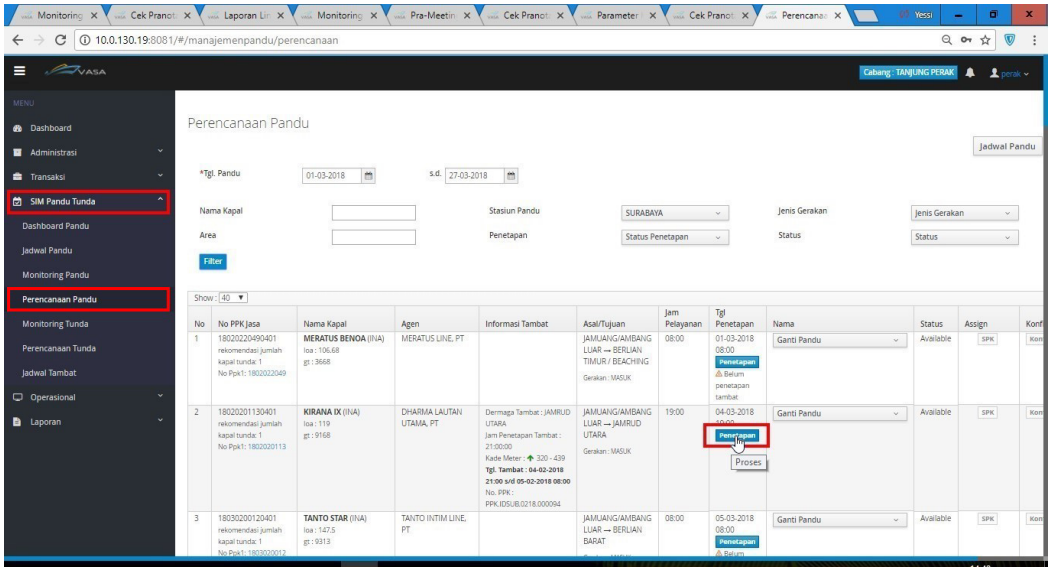


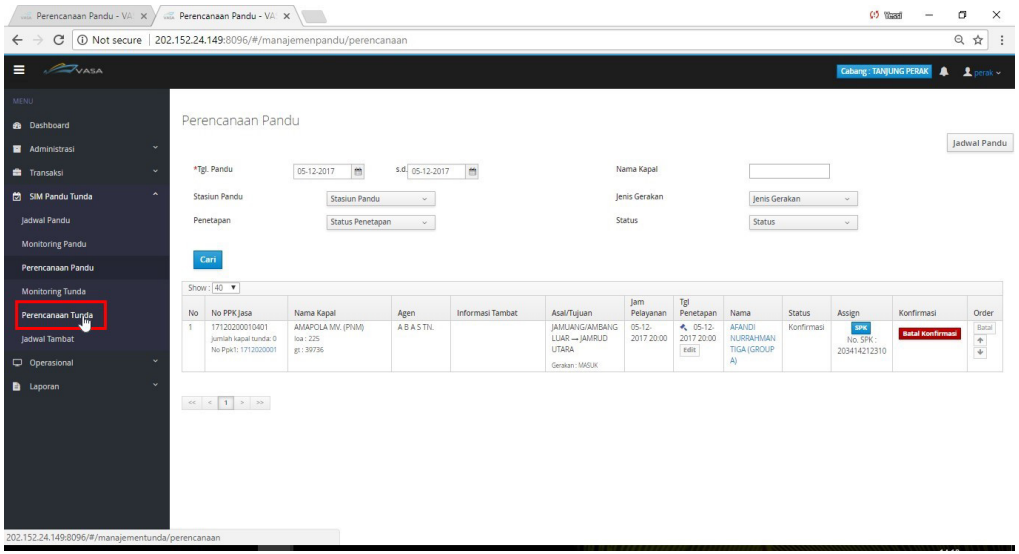


SCREEN CAPTURE

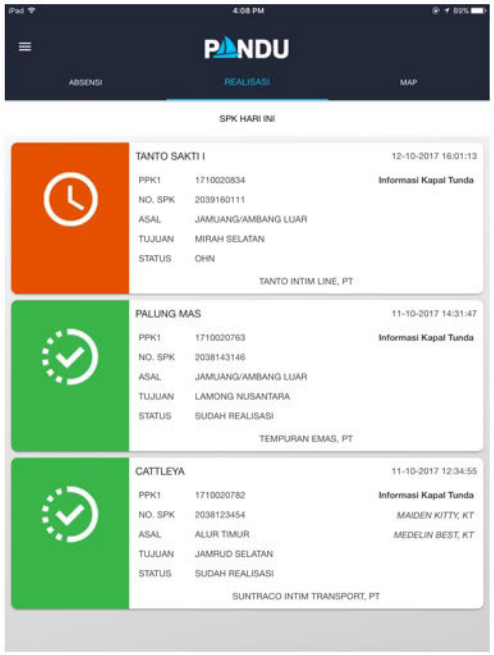
The Mechanism

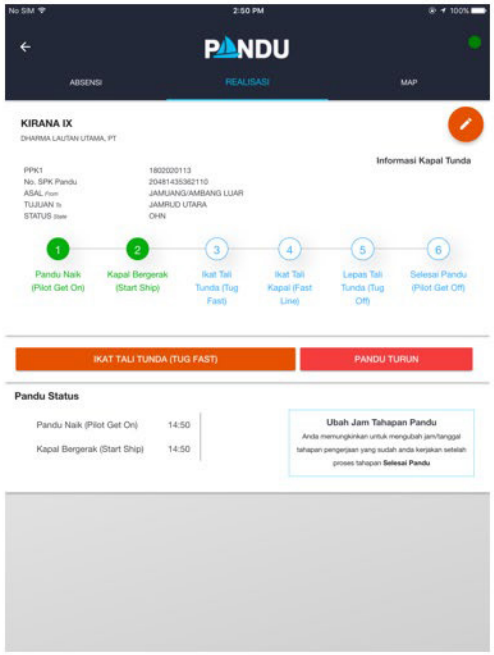
PERENCANAAN (PANDU)

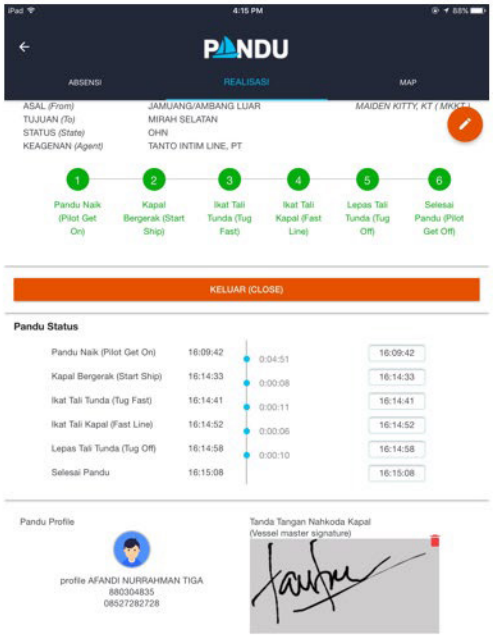




PERENCANAAN (TAMBAT)

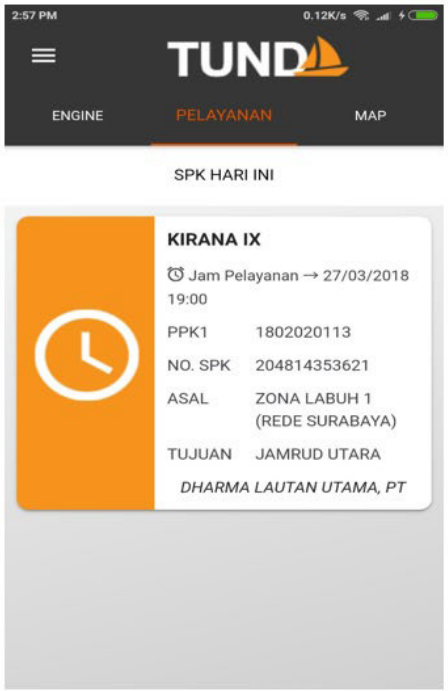


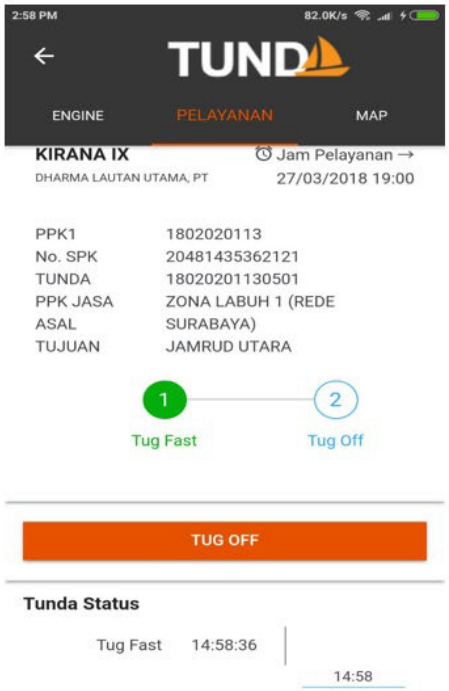


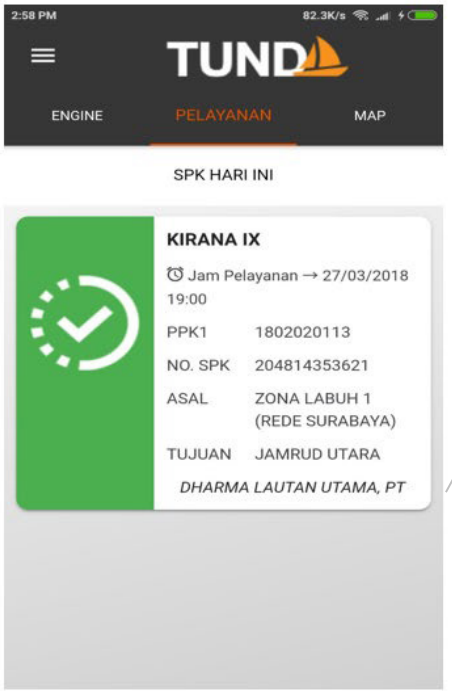


REALISASI PANDU

The Mechanism





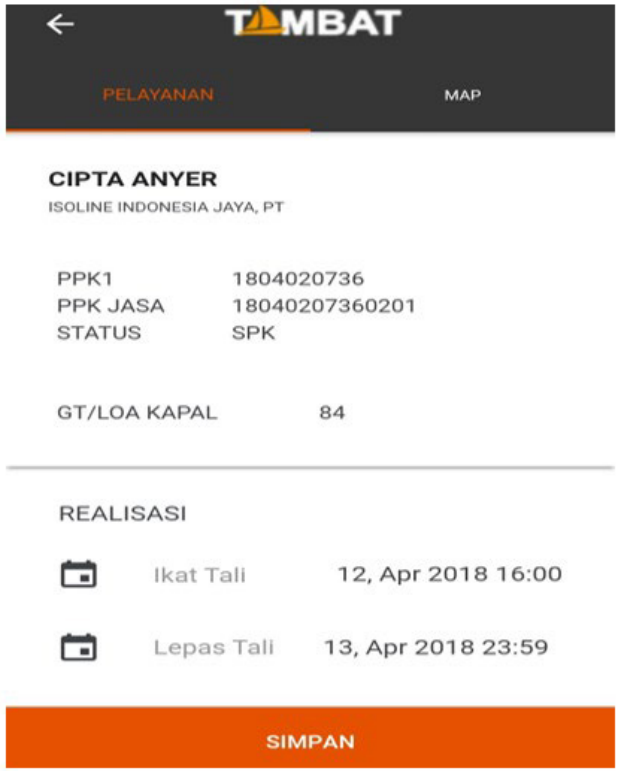


REALISASI TUNDA

The Mechanism

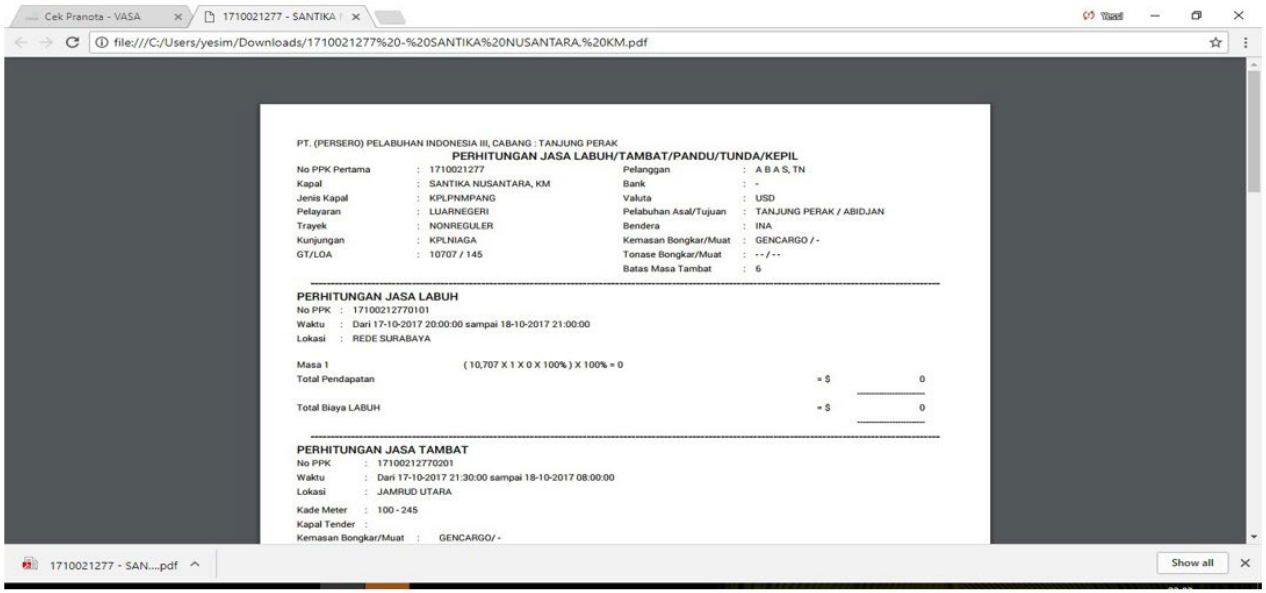
REALISASI TAMBAT

The Mechanism



INVOICE / TAGIHAN

The Mechanism



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