

POWERING THE DATA AGE

BlueTraker VMS Solutions for Fisheries Management



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BlueTraker customers get nothing less than state-of-the-art engineering, advanced technology, flawless user experience, and stellar customer care.

Welcome to the family.



Authorities need to choose an optimal VMS system which strikes the right balance between the investment and expected benefits while making sure they are future-proof. With advanced features, technology and references, **BlueTraker VMS** system is

THE PERFECT CHOICE



ACTIVE TRANSPONDERS AND COUNTING

BlueTraker is a trusted partner and VMS provider to numerous governments and their respective fisheries authorities around the World. Our common goal is to eradicate illegal, unreported and unregulated commercial fishing.

ADVANTAGES of BlueTraker VMS

VMS is a fisheries authorities' tool based on satellite technology that helps protect the sensitive marine environment and fragile fish population. It is a crucial tool in fighting illegal, unregulated, and unreported fishing (IUU).

HYBRID COMMUNICATION, GLOBAL COVERAGE

BlueTraker VMS transponder is a hybrid device that uses GSM and satellite communication channels thereby enabling the Fisheries Monitoring Centres (FMCs) to get the data in real-time. At any given time, they can monitor vessel/fleet data on position, bearing, speed, time etc. The vital advantage of BlueTraker VMS transponder is that the geozones are embedded on the device itself, providing true real-time notifications of geozone crossings. This allows specific operational rules (e.g. reporting intervals, alerts).

INSIGHT INTO FISHING EFFORT AND IUU

BlueSenz range of sensors enables monitoring of the fishing gear by automatically detecting when the gear is in use. This data combined with the data from VMS transponder helps calculate the FISHING EFFORT which is instrumental for sustainable management of any fisheries. FMCs can also quickly establish if a particular vessel is breaching the geofence, fishing over quota, using blacklisted gear, transshipping, or using a prohibited technique (e.g., use of trawl nets and hydraulic dredges).

SOCIAL + ECONOMIC BENEFITS = CREW WELFARE

BlueTraker VMS provides a secure two-way communication system and emergency beacon for the fishing crew. Fishermen will benefit by increasing communication with markets, family members, vessel owners, and Coast Guard. It can increase revenues by allowing less burdensome regulations and more fishing time.



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BlueTraker VMS **OVERVIEW**

BlueTraker VMS system is a robust, cost effective and intelligent turn-key solution for monitoring commercial fishing fleets. It is the only proven solution for true global satellite coverage and comes with a plethora of unique features. One of them is the ability to adapt to the needs of the end customer. In general, BlueTraker VMS system operates in four key stages.



VESSEL DATA COLLECTION

BlueTraker VMS transponder collects vessel data using GPS/GLONASS satellite signal and sends it along with speed, heading and BlueSenz sensor data via the GSM/GPRS terrestrial network, or the satellite network at predefined intervals.



DATA PROCESSING AND DELIVERY

Collected data is aggregated and processed at BlueTraker proprietary TDS communication Server. The process seamlessly enables reliable and near real-time data delivery to selected database, server or application.



COMMUNICATION CHANNELS

BlueTraker VMS technology is engineered as a hybrid solution. Switching between data delivery channels (satellite or GSM) is automatically applied, depending on the vessel's position and location.



DATA REPORTING AND APPLICATION

On the front-end, national Fisheries Monitoring Centres can use any third party VMS monitoring software application to display and analyze the data. BlueTraker offers state-of-the-art SecondScreen and ScreenONE application for BlueTraker devices management and fast overview of the fleet.

BENEFITS OF CHOSING BlueTraker

LOW OPERATING COST



BlueTraker VMS is an affordable, running-cost economical and lowmaintenance system. For example, the embedded 'authorized port' function ensures that the devices transmit reduced positional messages.

IP68 Rated



BlueTraker VMS transponder's unique double-shell housing protects the components against anything that the hostile marine environment can throw at it: extremes of temperature, windchill, humidity and salt.

UNMATCHED SECURITY FEATURES



Several mechanical and electrical security measures protect data integrity and security from tampering or fraud. Hardwired security codes prevent swapping of embedded modules. Transponder is additionally equipped with tamper-evident uniquely marked security seals.

INSIGHT INTO FISHING EFFORT



BlueSenz range of sensors enables monitoring of the fishing gear by automatically detecting when the gear is in use. This data combined with the data from VMS transponder helps calculate the fishing effort which is instrumental for sustainable management of any fisheries.



SIMPLE Installation



BlueTraker is one of the most straightforward terminals to mount and set-up. We provide easy to understand user manuals and a how-to videos for a quick and easy installation process. BlueTraker VMS transponder is enclosed in a double shell housing for unprecedented environmental protection and has no external parts or antennas.

DISTRESS Alerting



ConBox incorporates emergency beacon technology with messaging function. In case of distress (or other assistance required according to the situation at sea), fishermen activate the alert (SOS) button, and FMC is instantly alerted. By receiving more frequent reports on vessel position, FMC can efficiently coordinate their response to distress.

FUTURE-PROOF ENGINEERING



Fully upgradable for the next generation of fisheries monitoring techniques. Can be upgraded with IoT fishing gear sensors. Firmware is updated over-the-air with no vessel boarding required. BlueTraker transponders only draw an average of 2W at 12V DC.

FAMILY SNAPSHOT



MEET OUR AFFORDABLE, RUNNING-COST ECONOMICAL AND LOW-MAINTENANCE VMS SYSTEM

BlueTraker VMS IS THE MOST EXTENDABLE, UPGRADABLE AND FLEXIBLE PRODUCT FAMILY ON THE MARKET With state of the art technology and comprehensible solutions for vessel tracking and monitoring, BlueTraker sits firmly at the forefront of global industry leaders. Vessel Monitoring System for Fisheries is the core of our expertise based on hybrid GPRS/Satellite tracking.

We engineered our VMS product family to be technologically future-proof, expandable and upgradable in functionality and localized per respective customer requirements. We offer bespoke VMS solutions based on local legislation and client needs.

With no exception, all BlueTraker VMS equipment is built to withstand harsh marine environment. Rest assured: BlueTraker hybrid solutions (via satellite and GSM signal) are designed for unprecedented accuracy, safety, scalability, and performance.

UNPARALLELED AND UNIQUE FUNCTIONALITIES

Turn to the next page to for in-depth description of the unique functionalities of our VMS solutions and optional equipment expansions.

VMS ON-BOARD -Connection Diagram

Intelligent Scalability

From the most basic to the most advanced BlueTraker setups, all on-board hardware installations consist of three key components: the BlueTraker VMS transponder, the ConBox (connection box for power supply) and the appropriate cable set.

Optionally, every installation can be extended and upgraded with advanced connection boxes, a range of BlueSenz sensors and state-of-the-art monitoring software.

3 Basic Setups

INFINITE POSSIBILITIES

Depending on the requirements of the respective fisheries authorities, BlueTraker VMS system can be installed in numerous configurations.



BlueTraker VMS TRANSPONDERS

FULLY COMPLIANT WITH THE REGULATIONS COVERING VMS BASED SOLUTIONS. WE GAIN EXPERIENCE FROM THE FISHERIES INDUSTRY.

BlueTraker VMS transponders are the latest generation of marine graded communication terminals developed for global vessel tracking and monitoring. BlueTraker VMS transponders are known for their integrated design with no external antennas, incorporating all the electronics inside a single terminal housing. Robust and maintenance-free transponders offer reliable and cost-efficient operation with low investment and a long lifespan.



BlueTraker VMS transponder

BlueTraker VMS transponder is a communication terminal specifically developed to monitor fishing vessels globally. It uses hybrid satellite and GSM/GPRS communication channels to intelligently transmit position, speed and heading in real-time at predefined intervals to the fisheries management authority. BlueTraker VMS transponder can also send catch reports as well as fishing effort data from our BlueSenz range of sensors. Moreover, BlueTraker VMS transponder offers bidirectional communication between vessel and FMC.

BlueTraker iVMS transponder

BlueTraker iVMS (inshore vessel monitoring) transponder is an efficient and, at the same time, affordable solution for VMS vessel tracking and monitoring optimised for smaller fishing boats and artisanal vessels which are fishing close to the coast (in the inshore areas). BlueTraker iVMS uses inexpensive GPRS communication exclusively (rather than satellite) to transfer data and commands, and comes with embedded sim card with no additional roaming cost. BlueTraker iVMS comes with the same range of functionalities and security features for the fishermen as well as for the authorities in helping them to better map traditional fishing grounds.





BlueTraker VMS Solar transponder

The BlueTraker VMS Solar is a solar-powered device designed to track and monitor smaller fishing vessels. Powered by an integrated photovoltaic module, the BlueTraker VMS Solar requires no external power source. Its solar cells and backup battery ensure continuous tracking, even at night or during adverse weather conditions. When solar energy is unavailable, the device can operate for up to one week with hourly reporting, making it highly resilient in various environmental conditions. A wireless emergency button lets the crew send a distress message to the Fisheries Monitoring Centre (FMC) when needed. The BlueTraker VMS Solar is resistant to water, dust, vibration, and shock. It offers global coverage, ensuring that even smaller vessels remain visible to fishing authorities.

DESIGNED FOR UNPRECEDENTED **ACCURACY**, **SAFETY, SCALABILITY, AND PERFORMANCE**.

ALL THE FEATURES MAKE THE DIFFERENCE

True Global Coverage

BlueTraker VMS transponder can report its position, send alarms and transfer data from anywhere on Earth. This offers an

unprecedented advantage to Fisheries Authorities tracking globally dispersed fishing fleets. BlueTraker takes full advantage of Iridium's 66 low earth orbit satellites - even in the A4 Sea Area!

Embedded Geozones



Up to 1000 geographical geozones & boundary lines can be remotely uploaded, edited, activated and deactivated for every BlueTraker

VMS transponder. Precise geographical areas can be defined and specific operational rules can be put into effect (reporting interval change, visual/audio onboard vessel warning, alert message, etc.).

eLogbook Compliance



The worldwide e-Logbook initiative is gathering pace in helping to eradicate illegal, unregulated and unreported fishing. With

built-in data-pass functionality for transferring reports, only approved Electronic Reporting Systems (ERS) can be integrated as authentication is required.

Encrypted Data



To prevent unauthorized data modification, a symmetric AES 256-bit key authentication method is used. In addition to encrypting data

before transmitting it, BlueTraker VMS transponder also prevents sending unauthenticated external data (e.g. Catch reports) to FMC with the purpose of deceiving the authorities.

Compass Heading



BlueTraker VMS features an advanced digital magnetic compass with a self-calibration algorithm that adjusts magnetic distortions.

Heading information is typically calculated from GNSS data; however, the magnetic compass ensures accurate readings when the vessel is traveling at low speeds, is stationary, or when GNSS data is unavailable.

Hybrid Communication

BlueTraker VMS transponder dramatically reduces operational costs by using two communication channels. Switching between channels depends



on vessel location. Beyond the reach of a GPRS signal, data is transferred via the Iridium satellite communication channel. In coastal waters it switches to a low cost mobile network automatically.

Position Reporting

Our transponder intelligently sends navigation reports via either the GSM or the Iridium communication satellite network at the



predefined interval (set for each network individually). How the GSM and the satellite channels are used depends on network availability, channel priorities, and the external power supply availability.

Tamper Detection

BlueTraker VMS transponder is designed with a high level of mechanical, electrical and electromagnetic security features. In order to



avoid any tampering or fraud, we have integrated tamper detection and antenna blockage detection. Unique serial number is laser engraved into the housing with security seals.

Remote Gear Monitoring

BlueTraker VMS can be upgraded with BlueSenz technology allowing FMCs to easily monitor the precise fishing effort of their fleets. BlueSenz



is family of on-board sensors mounted directly to the fishing gear for accurate and precise assessment of the fishing effort for every vessel in the fleet.

Ultra-long Power Autonomy

Equipped with a powerful Li-lon battery, BlueTraker VMS provides up to 23 days of autonomous operation with a 1-hour reporting



interval (5-minute intervals for HRDR). This ensures uninterrupted tracking and data transmission even during extended periods when the vessel's main power is unavailable.

BlueTraker VMS transponder **TECHNICAL SPECIFICATION**

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Antenna

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External dimensions	198 mm (width) x 198 mm (length) x 67 mm (height)	
Weight	1.140 g (including one back-up battery)	
Housing	Double shell housing, light colour outer shell, resistant to UV solar radiation	
Environmental		
Operating temperature	-40°C to +60°C (Arctic version) -25°C to +60°C (Standard version)	
Storage temperature	-25°C to +70°C	
Humidity	From 10% to 100% Relative Humidity including condensation	
Dust and water ingress	IP68 protection class (depth 6 m, duration 30 min.)	
Vibration	IEC 60945:2002, 5 Hz - 13.2 Hz sweep sine, displacement 0.001 m,	
	sweep rate 0.5 oct/min; 13.2 - 100 Hz sweep sine,	
	acceleration amplitude 7 m/s ⁻² , sweep rate 0.5 oct/min	
Electrical		
Input voltage range	9 V DC to 36 V DC (max. supply cable length: 50 m)	
Nominal supply voltage	24 V DC or 12 V DC	
Energy consumption (average)	2 W @ 12 V DC	
Input protection	Resettable fuses, Level 4 ESD protection according to ISO 61000-4-2,	
	Overvoltage protection above 36 V DC, Load Dump protection according to	
	ISO 7637-2:2004(E) (pulse 5a), ISO16750-2:2002 (load dump)	
Backup battery	Li-lon rechargeable battery / 5300 mAh	
Autonomy with backup battery	Standard battery: 7 days with 1 hour reporting interval at +23°C	
	Larger capacity battery: 21 days with 1 hour reporting interval at +23°C	
Satellite data communication		
Network	Iridium, Low Earth Orbit (LEO)	
Satellites	Low earth orbit, total globe coverage, 66 satellites, mesh network	
Frequency	1616 MHz to 1.626,5 MHz	
Average radiated power	<1W	
Antenna	Integrated, low profile, low elevation, optimised, high gain, custom designed antenna	
GSM/GPRS channel (For Firmward	e Upgrades and Servicing)	
Supported bands	Quad Band 850/900/1800/1900 MHz	
SIM card	Global SIM, supplied with the transponder	
Data features GPRS	Embedded TCP/IP and UDP/IP protocol stack Embedded FTP SSL - Secure Encrypted Connection	
Antenna GSM	Integrated, omnidirectional	
Interface		
Wired	USB (ConBox with USB interface must be selected)	
Wireless	WiFi, Bluetooth (optional items)	
GPS/GLONASS positioning receiver		
Channels	33 tracking, 99 acquisition	
Acquisition	Cold start 28 s, Hot start < 1 s, sensitivity -167 dBm @ tracking	
Accuracy	5 m CEP	

Integrated patch antenna

MULTIPLE LAYERS OF **SAFETY AND SECURITY**

BlueTraker internal tamper alert sensor

Integrated design with no antenna cables

Double shell housing

Tamper-evident security seals with serial numbers

Impossible to remove BlueTraker or UniMount without first disconnecting main cable set

LED indicator displays current device status

Laser engraved serial number

Cable break detection

IRREGULAR EVENTS DETECTION AND REPORTING

BlueTraker irregular events detection messages are automatically transmitted upon the occurrence of certain events. Such events are for example: when the device switches to backup battery due to external power failure, when the power is restored, when the cover of transponder is open, when the GNSS signal is unavailable for a certain period, when the unit is relocated, etc.

BlueTrak

BlueSenz

THE FUTURE OF FISHERIES MONITORING

GearSenz

BlueSenz range of sensors enables monitoring of the fishing gear by automatically detecting when the gear is in use. This data combined with the data from VMS transponder helps calculate the **FISHING EFFORT** which is instrumental for sustainable management of any fisheries.

HOW THEY WORK TOGETHER

GearSenz is a wireless sensor attached directly to the fishing gear winch. It detects its rotation and decides whether this activity represents a deployment of a fishing net or it is just a minor manoeuvre of a ship in a stormy sea. An equally smart detection of the gear-up procedure marks the finishing moment of the activity called "Gear Immersion".

NetSenz is a wireless sensor that can be easily mounted on almost any type of fishing net (on the headline or footrope). It detects the positions and time of the start and end of the fishing session and also records the exact time-depth profile that the net passed.

WirelessGateway collects the data and sends it over BlueTraker VMS transponder to a cloud-based server for processing. Based on the results, authorities can better understand fishing activities and adapt national fisheries policy accordingly.



NetSenz Model: NIY2C1 P/N: 16690 | S/N: 20103

BlueSenz **Discovery Kit** world-first 3D Near Real-Time Fishing

EFFORT ANALYTICS SYSTEM

The BlueSenz Discovery Kit—a complete, ready-to-use platform **designed to trial the innovative BlueSenz technology**. This all-in-one set provides an unmatched **measurement near-real time 3D fishing efforts in marine environments**. The kit comes fully equipped for hassle-free deployment, providing everything required to set up and start monitoring right away.

The BlueSenz Discovery Kit uses **NetSenz** (sensor mounted on fishing gear) and **GearSenz** (sensor mounted on the winch) to track fishing operations by detecting gear deployment, retrieval, and depth-time temperature profiles. Sensor data is wirelessly and automatically collected by WirelessGate and transmitted onshore via VMS Transponder to an onshore storage unit.

The BlueSenz Discovery Kit offers an efficient and accurate tool for monitoring various fishing gears and provides a cost-effective solution with comprehensive support and services.

ueTraker

SUPPORTING FMC'S PRIMARY MISSION: Fighting illegal, unreported and Unregulated Fishing.

IUSTAINABLE FISHERIES MANAGEMENT

LANDING DECLARATION KIOSK

A DISRUPTIVE INNOVATION IN THE SMALL-SCALE FISHERIES DOMAIN

The Landing Declaration Kiosk (LDK) serves as an input terminal for declaring a catch at the point of its first landing. It enables artisanal fishermen to **weigh and photograph their catch, record necessary data, and receive a legally recognized Landing Declaration** printout. Simultaneously, this information is wirelessly transmitted to the national Fisheries Information System. As an added benefit, LDK provides ice with an **integrated ice-generating and dispensing function** to help preserve the fisherman's catch.

The Landing Declaration Kiosk (LDK) is a crucial component of the **Landing Declaration System (LDS)**, which helps empower fishing authorities in coastal states with tools to streamline and digitize their small-scale fisheries

> management efforts. Likewise, LDS supports fishermen to comply with the fishing authority's monitoring, control and surveillance regulations and requirements, relieving them of tedious paperwork at the same time.

SecondScreen, FLEET MANAGER'S CHIEF MATE

Your fleet's every move

With a range of diagnostic and navigation controls, centralized device and fleet monitoring and geofence management, SecondScreen is every Fleet Manager's Chief Mate. We have created an advanced interface that makes real-time tracking and monitoring a breeze. There is no extra software to install or maintain; simply log in with BlueTraker ID and start managing the fleet.

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Everything in one application

Voyage data replay, fishermen subaccounts and more - BlueTraker VMS system allows bidirectional communication between FMC and vessel captain in the form of short text messages. Texting is possible when vessels are either equipped with a ConBox 2023 LCD wiring box, or a transponder with Bluetooth technology paired with BTApp mobile phone application..

Synchronized activities

SecondScreen is loaded with a variety of tools and functionalities. The map view offers fleet's activities and current diagnostic status. Message view comes handy when communication history is needed, while geozones management gives FMCs everything they need: either to easily add, remove or edit geozones or to synchronize them to individual vessels, groups or the entire fleet.

SecondScreen

- Advanced reporting and in-depth analytics
- Real-time geofence management and communication
- Device management with map, message and command view
- Customizable functionalities, configuration and global access
- Geozones management
- Fast, simple and efficient communication with messaging

ScreenONE, Advanced monitoring software for fmc

ScreenONE is an **event driven monitoring software** designed for large fleets, enabling users to focus on the most important events. Its alert management module centralizes incoming alerts for individual vessels, entire fleets, or custom groups. It offers advanced



cartography with standard and optional ENC (Electronic Navigation Charts) layers.

The integrated **Fleet Register** contains vessel information and fishing licenses, while a user-friendly Reporting Module offers quick data views that can be exported to PDF or Excel. Built-in user role management ensures that each user sees only relevant data, with comprehensive work logs for audit trails.

ScreenONE works with **BlueTraker VMS while also integrating 3rd party transponders**. The geozone feature lets you create, edit, and upload maritime zones directly to transponders, enabling dynamic zone-based behaviors.

Available in multiple languages, ScreenONE also supports vessel communication on ConBox LCD, a Harbour Manager to track ports, and a Certificate feature for emergency or incident documentation. A one-click "Surveillance Mode" boosts reporting to every three minutes for 24 hours, while vessels can activate "Emergency Reporting" themselves. With dual-monitor support and automated fishing effort recording via BlueSenz sensors, ScreenONE offers the modern, user-friendly solution fishing authorities need for compliance, efficiency, and resource protection.

These modules empower authorities to maintain a **fully up-to-date record of fleets**, reducing administrative overhead and simplifying the oversight of fishing activities.

State-of-art map overlays

Experience next-level situational awareness and operational efficiency with state-of-the-art ENC features and map server. Overlay detailed electronic charts, environmental layers, and real-time weather data to stay ahead of changing conditions and make informed decisions.

Alert & event certifications

A dedicated Certificate Module streamlines the creation and administration of official documentation whenever an emergency or incident arises. Authorized users can quickly fill out and validate key details—such as vessel name, date, time, and type of incident—ensuring that any event is accurately recorded and archived for future reference. Certificates can be searched, retrieved, and exported at any time (for instance, as PDF or Excel files) to be shared with relevant authorities or stakeholders.

Vessel register and & fishing permits

ScreenONE offers a comprehensive Vessel Registration feature that centralizes critical data, from vessel identity details to ownership, gear, and communication settings. With streamlined editing tools, administrators can add and update vessel entries quickly, ensuring accuracy and consistency for any size fleet. Simultaneously, integrated Fishing Permits management keeps track of licenses, from type and status to date-based restrictions, making it easy to verify valid authorizations and monitor compliance.

BlueSenz technology ready

ScreenONE seamlessly integrates BlueSenz sensor data, providing in-depth reports and analyses for enhanced monitoring and decision-making.

e-Logbook ready

ScreenONE supports full e-Logbook functionality, enabling the display and analysis of electronically submitted e-Logbook data.

Conbox More than just a **wiring box**

ConBox is a wiring box (connecting BlueTraker VMS transponder, vessel power supply, and optionally other devices and sensors) purposely designed for fisheries monitoring applications. ConBox comes in three versions:

LET'S TALK USER Experience

BUTTON FUNCTIONALITIES, DISPLAY MESSAGES AND FRONT LABLES CAN BE CUSTOMIZED AND LOCALIZED TO SPECIFIC CLIENT OR COUNTRY REQUIREMENTS.

← ConBox LED

The ConBox LED provides a wide range of features, including alert triggering and fishing activity reporting, on-board VMS system and other system statuses, etc.

ConBox LCD \rightarrow

The ConBox LCD includes everything available in the LED version with the addition: LCD display with interactive user interface, texting with FMC, current geo-location information, and much more.





← ConBox Sardine

Our basic connection cabinet is as simple as it gets. While power indicator is self-explanatory, alert button sends a message to FMC of a fishing crew in distress.

ConBox' WebServer and Bluetooth upgrade

ConBox LCD and LED were upgraded with **Bluetooth technology** and **WebServer functionality**. This allows users (fishing boat captains) to connect to the ConBox via Bluetooth or USB cable with any mobile device (such as smartphone or laptop).

WebServer allows the users to fill and send **eLogBook** and other data to FMC (using only web browser). This connection also enables 3rd party application to use the BlueTraker data transfer capabilities (intended for eLogBook, diagnostics, etc.).

Also, a software called "HMI application" can be installed on any Windows application which is intended for monitoring vessel data and communication with FMC.



BlueTraker VMS **GLOBAL FOOTPRINT**

References

BlueTraker is a trusted partner and turn-key service provider for numerous national fisheries authorities around the world. Our products and solutions are applicable to a broad range of industries, appropriate for service providers, end customers and system integrators. BlueTraker VMS global footprint along with a list of our VMS reference countries is growing stronger day by day.



COMPLIANCE APPROVALS, CERTIFICATES AND STANDARDS

- IEC 60529/IP68 Water and dust ingress protection
- **IEC 60945** Maritime electronic navigation and communicatation equipment and systems
- MIL-STD-810G Operating temperature test

- ISO 7367-2:2004 Electrical transients
 along supply lines load dump
- ISO 16750-2 Environmental conditions and testing for electrical and electronic equipment - part two; electrical loads - load dump
- IEC 60068-2-1 Low temperature functional test

- Iridium ICE certified
- Russian Maritime Register of
 Shipping Type Approved
- US Coast Guard Certified
- DNV Type Approved
- VTU Conformance Certificate













ARCTIC **

We are the world's first and only certified manufacturer of tracking systems for A4 sea area where harsh polar conditions prevail.

For details visit: www.bluetraker.com/solutions/arctic-solutions/



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