

This document is presenting you a solution
for Satellite based Tracking

Fishing Trawler Tracking System(FTTS)

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DIGITEC SYSTEM:

INTRODUCTION

The company was registered as DIGITEC SYSTEMS in 1992 with soul proprietorship with a view to concentrate more on HIGHTECH PRODUCTS, SYSTEM & SOLUTIONS . From the beginning DIGITEC endeavors and strives for high-end technological implement and its uses throughout the country. We successfully fulfill the genuine needs of the Industry's standard test, measuring & calibration equipment & latest technological tools. Basically, DIGITEC is providing a wide range of Office automation, Data communication, Network Services, Security systems to Govt. Semi Government, financial & research organizations, private and corporate sectors as well.

The head office of the company is located at Karachi with representative in Islamabad & Lahore, which covers the Punjab and N.W.F.P area. The company has well equipped maintenance shop both in Karachi and up-country to provide after sales service and support facilities. The company is registered supplier to all government, semi-government public corporation and private industries.

DIGITEC GROUPS:

Associated firms and sister concern of DIGITEC Group are as under:

DIGITEC SYSTEMS

178 Sector 24, Korangi Industrial area Karachi

DIGITEC SYSTEMS Sales/Marketing

29E Kyaban-e-jami.DHA Phase II Ext.

OUR PROFILE AND CATALOG:

PROFILE LINK:

<http://digitecsystems.com/brochure/profile.pdf>

CATALOG LINK:

<http://digitecsystems.com/brochure/catalog.pdf>

Need:

Pakistan is fortunate of having a very Large coastline. This is providing a sizeable contribution to the economy in terms of export of Fish and providing employment . Fishing Industry is providing a very profitable means of living for a large population attached with it . Like all sector of society there are individual who like to exploit the situation for personnel gain. The fishing Industry is no exception and the following mal practices are being committed.

- Smuggling of goods from neighboring countries,
- Illegal Fishing during Off seasons.
- Fishing beyond authorized area,
- Human trafficking to Gulf countries.

These illegal activities are bringing bad name for the country as our fisherman are being captured by the neighboring countries .There is therefore a very immediate need for a System by which the fishing activity can be monitored.

Unlike Land which is covered by GSM network the sea does not provide any low cost communication infrastructure the only available means of communication is by using LEO (low Earth orbit) satellite networks.

Fishing Trawler Tracking System (FTTS) :

Ever since its inception Digitec has worked to provide low cost innovation to meet the customer requirements. With the same spirit we have developed a solution for Maritime Security Authority so that it can control the shore line more efficiently and reliably. Digitec has already developed a GSM based tracking system with its own web server, using this experience Digitec has developed the FTTS system.

The system is a sealed waterproof casing that can be installed in the room of the fishing trawler with the device facing the sky. As satellite signals are prone to interference it is important that it should be facing the sky without any obstruction in front of the device. The system is designed to send a packet with the GPS coordinates to our web server through the satellite network. In order to reduce the operating cost the system only sends the packet when there is a change in position of the trawler. The location update is made after every 5-10 minutes.

The Digitec web server provides the means by which the location can be monitored. The locations are displayed on Google maps along with tags for the time marker. To access the database the user has to enter the login ID and password. The following screen shots show the various options that are correctly available on the server. Further enhancement can be made according to the requirements given by MSA.

Product Details:



- ✦ A very reliable and cost effective solution for the security of vehicles .
- ✦ Easy to operate with advance features that provides the user a complete ease real time self monitoring with its effective instant accurate information
- ✦ Light weight ,resistant with internal rechargeable battery. If the vehicle battery is removed the unit will still be operational for one whole day (If power Saving Mode active).
- ✦ Each unit is provided with a user ID and Password, which can be used to monitor the location through our web server <http://www.goftrack.com/> The location can in any case be viewed on [maps.google.com](https://www.google.com/maps) if the online mode is not activate.

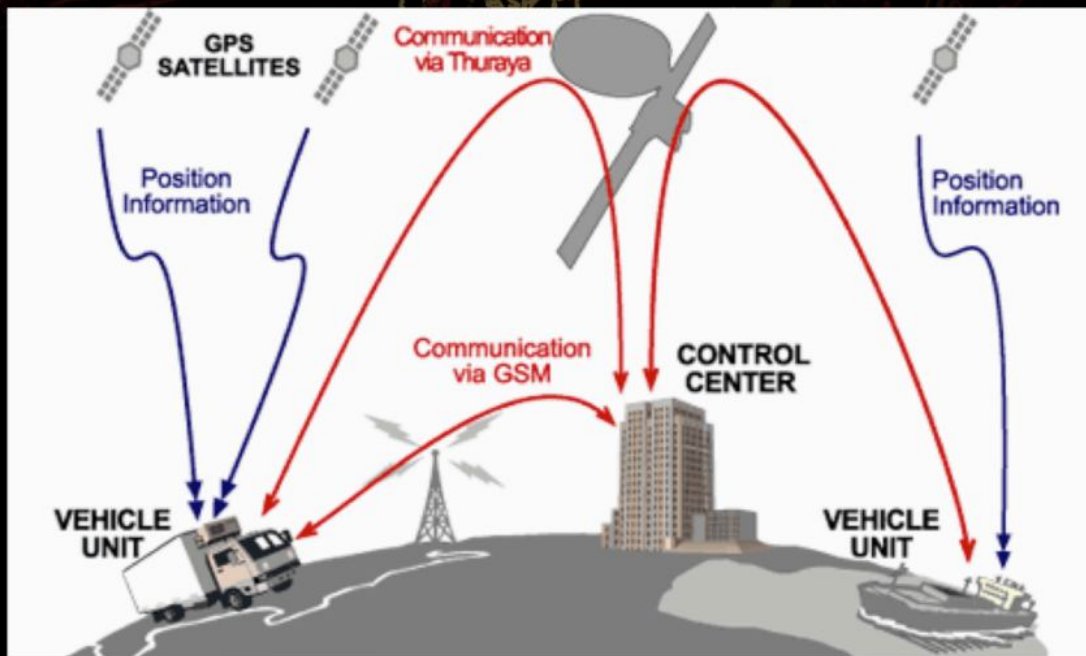
Why Digitec GPS Tracking system ?

- ✦ self monitoring from the clients end over their own server
- ✦ in house development , warranty of one year of the hardware and very effective after sales services
- ✦ rigged to operate in extreme environmental conditions which aiding durability
- ✦ any unusual coordinates and time can be indicative of malpractice
- ✦ the location of the tracked vehicle can be directly monitored on the clients monitoring screen accessible through a unique confidential ID and Password to detect the position of their vehicles assigned to each unit



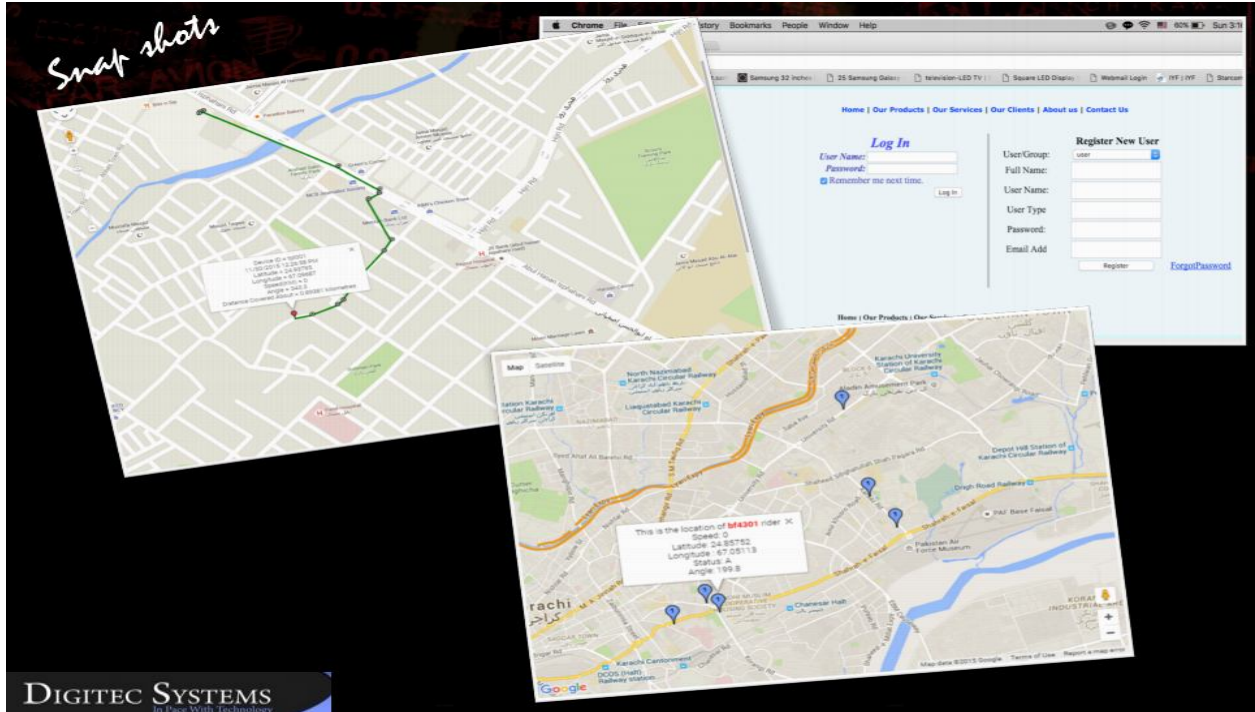
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How does Digitec GPS Tracking System work?

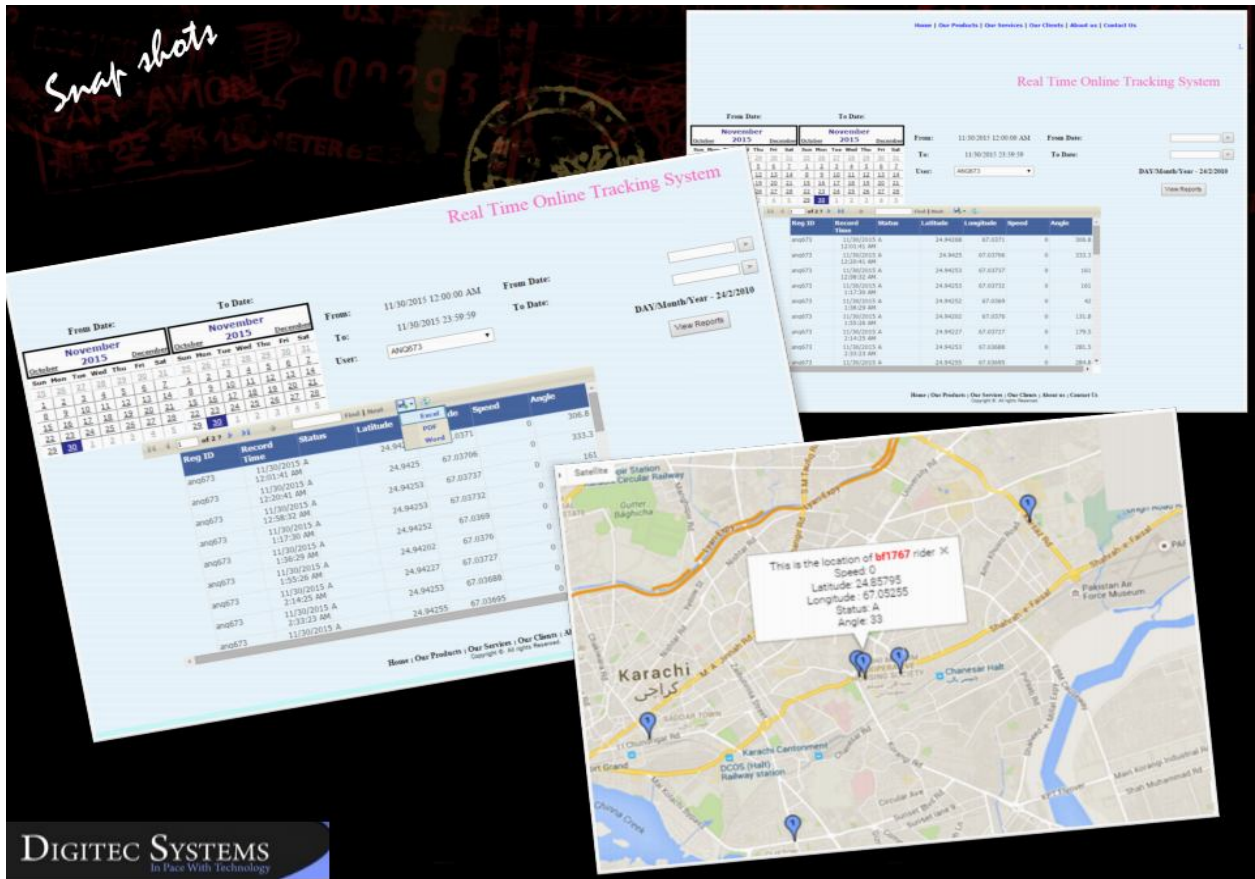


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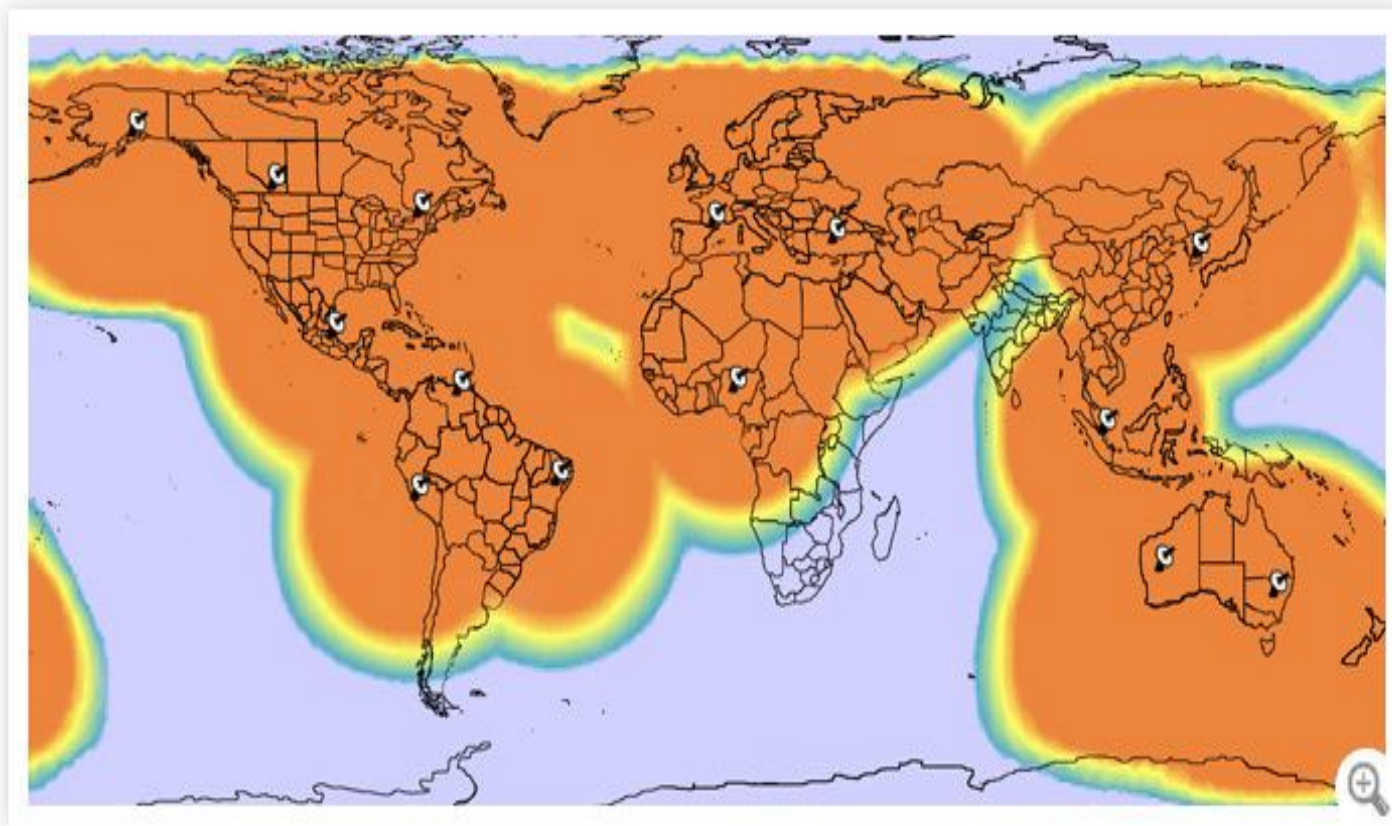
FTTS Specification

Description	Value
Working Voltage	8-35v DC
Battery	Lithium 4.2V 1000mA
Operating Current in Sleep	3mA
Operating Current GPS On	40-60mA
Operating Current Tx Active	200-300mA
Operating Temperature	-5degC to 70 Deg C
Dimension	88x82x37mm
Charging Time	3-5hrs
Battery Duration	Up to 60 Day
Satellite network Used	ORBComm

Picture:



OrbComm Satellite Coverage Map



Last Updated Dec, 2009

CONCLUSION

This FTTS system if introduced will bring about a major change in the society in term of curtailing all the malpractices currently being performed. Further it can save valuable life's as the SOS feature can be used to alert the MSA in case of distress .The menace of the fishing trawlers going to neighboring country unintentionally would also be reduced as the device will alert them if they are crossing the geo fence.