

# TDS 3

Telematic Data Server

## 3rd generation of TDS with the latest support of IoT functionalities.

Enabling all advance features of your MTUs fleet!

Multiple channels supports



Securely supports multiple accounts



Powerful and easy interface



TDS 3 Works hard



# Telematic Data Server 3

## Enabling all advance features of your BlueTraker fleet

TDS is an abbreviation for Telematic Data delivery Service. This is middleware application designed, developed, operated and maintained by EMA. The main purpose of TDS middleware is to interface data from different telematic devices, process them, store and forward to GIS application or any other applications. TDS is a comprehensive suite of tools, services and applications required to support different IoT devices in sectors such as marine tracking and monitoring, land tracking, remote location sensors controlling etc.

Currently, 3rd generation of TDS is active with the latest support of IoT functionalities.



### Securely supports multiple accounts

Multiple costumers can use one server. Access to web services and applications is secured, only you can see your BlueTraker fleet.



### Powerful and easy interface

External systems have various web services at their disposal for different tasks. Messages are completely parsed offering all properties when retrieved or delivered.



### Works hard

Hundreds of devices can be simultaneously connected to one server 24/7. Messages are available instantly when received.



### Real time processing

of data from thousands of devices



### Data integrity

to prevent spoofing and other malversations



## TDS 3

Communication server

## System Overview

### Several communication channels supported

(Iridium satellite network, Inmarsat C satellite network, GSM/GPRS mobile network,...). Other channels can be supported on request.



### Various data delivery options

to supply data to 3rd party applications



### Storing capability

of all data when required



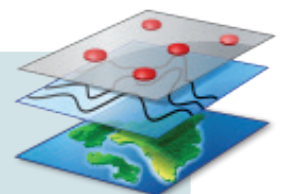
### Various IoT device support.

Bi-directional communication with IoT devices (commands, emails, notifications, ...)



### Supplemental functionalities:

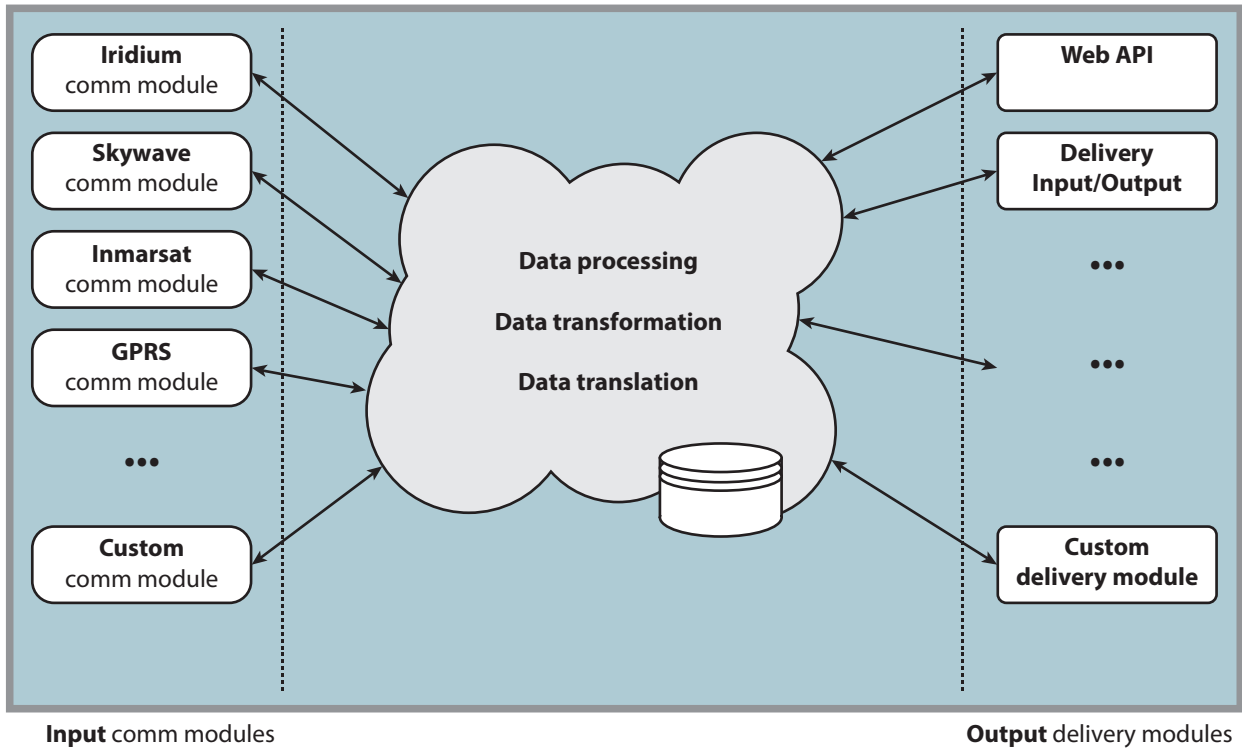
- Billing data collection and reporting
- Alerting system (per system or per IoT device)
- FOTA management (Firmware Over The Air) for IoT devices
- IoT devices provisioning
- Comprehensive Geozone management tool
- SecondScreen application available for visualization and monitoring device operations based on TDS data



**ARCHITECTURAL OVERVIEW**

TDS architecture is designed based on extensive experience in telematics industry and best practices in telecommunications. A flexible approach allows efficient integration of new blocks needed for your demands.

**TDS Service BUS - open system**



Several input modules to support broad range of IoT devices

Several output modules to support data exchange with different applications

Modular design

Service oriented

**TECHNOLOGY INSIGHT**

- Cloud based (Azure platform) as standard
- On premises deployment available for special cases
- Scalable design (from tens to thousands of connections)
- High availability (load balancing, geo replication)
- Secure communications (SSL, VPN, IpSec,...)
- Regular Backups and maintenance