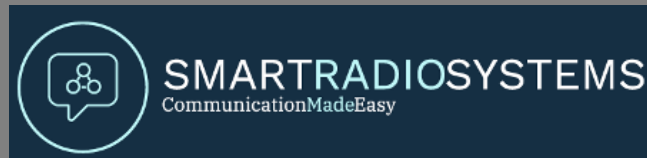# Revolutionizing Container Transport with Smart Technology
Smart Solutions Engineered by Smart Radio Systems and Drogon

Drogon Navigator

Introduction:
In today's dynamic logistics landscape, streamlining operations and enhancing efficiency are paramount for shipping companies. This case study explores how integrating the *Hytera PNC460* smart device with the *Drogon Intelligent Container Transport Management System (ICTMS)* creates a powerful solution to revolutionize the industry.

The Challenge:
Traditional container transport faces inefficiencies like delayed communication, limited real-time tracking and manual paperwork, leading to delays, errors, and rising costs.

In particular, freight forwarders making use of road transport for the collection and delivery of shipping containers have always faced the challenge of zero visibility and zero real-time management of the truck and driver across the entire process of collecting, transporting and returning the container. They are in fact blind to factual real-time information and updates once the container has been collected from port.

In addition, truck transport drivers traditionally use cheap low-quality consumer cellphones with very limited communication capabilities that are not designed and built to withstand the rigors and harsh operational environment of shipping container transport and essentially offer only GSM voice communications and limited consumer chat messaging applications.
Manual paper-based recording of necessary and essential documentation is also widely used and is proven to be both an unreliable, cumbersome and inefficient method in addition to at times being highly inaccurate due to human error.

The Solution:
A smart and ruggedized communication device coupled with a work-specific shipping container road-freight management and tracking application:

Introducing the **Hytera PNC460** smart Android communication device and **Drogon Navigator Application**!

The Hytera PNC460, a versatile smart device, tackles these challenges by offering:

Rugged Mission-Critical Communication Design:
Manufactured by world leading communication OEM Hytera, these devices are built tough and built to last in order to excel in harsh operating environments with features such as Mil-Spec 810 standard rugged design, IP68 rated fully submersible water and dust-ingression proof, gorilla-glass display and are 1.5 metre drop-proof.

UNPARALLELED
DURABILITY

Dustproof and Waterproof

1.5 m
Drop Resistant

Operating Temperature
-20℃ to +60℃

Voice Communication:
Push-to-talk instant countrywide Group and Private voice communications for seamless coordination among drivers, dispatchers, managers and warehouse staff for faster response times and improved overall efficiency.

400,000 presses   *Dedicated and Large PTT Button*

Real-Time Tracking and Route Optimization:
Integrated GPS and the Drogon ICTMS application enable real-time shipment, vehicle and driver tracking with historical route recording and playback, allowing dispatchers to monitor routes, identify congestion, and optimize delivery times.

PINPOINT YOUR DEVICE AND PERSONNEL
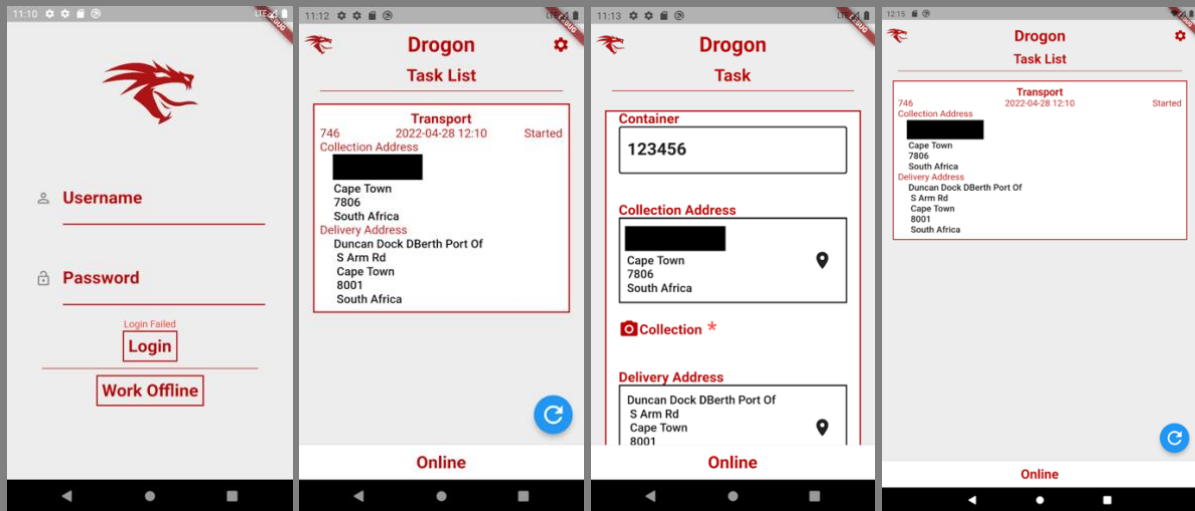
GPS, A-GPS, BDS, GLONASS, and Galileo

Positioning accuracy improved to 2 m

Electronic Documentation:
The Drogon Navigator app on the Hytera PNC460 digitizes paperwork. Drivers access tasks and update progress directly on the device, minimizing administrative tasks and errors.

Enhanced Security:
Advanced security features like encryption protect sensitive data, ensuring confidentiality for companies and their clients.

Customizable Applications:
The Hytera PNC460 has dual Sim-card slots and supports a wide range of Android based applications from inventory management to temperature monitoring, catering to specific shipping needs.
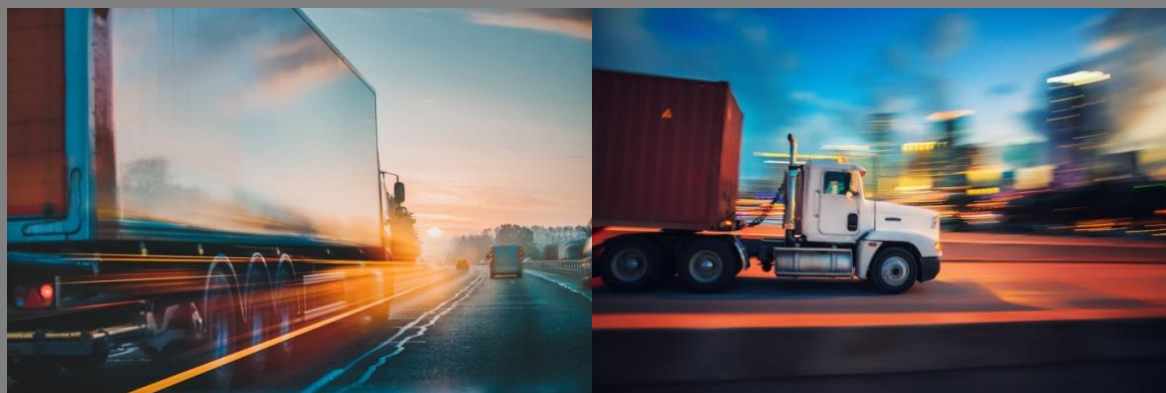
OPEN APP

ECOSYSTEM

Third-party Applications

- *More security*
- *More efficiency*
- *More productivity*

Case Study: A Cape Town Success Story
Smart Radio Systems and Drogon recently deployed a Cape Town based transport company with the Hytera PNC460 smart devices together with the Drogon Intelligent Container Transport Management System (ICTMS) and Drogon Navigator on-device application, with the following benefits:

Reduced Futile Trips and Wait Times:
Real-time tracking allowed for efficient route planning, significantly reducing wasted trips and wait times at ports and depots.

Improved Customer Satisfaction:
Dispatchers could proactively address issues during transit, leading to faster deliveries and happier customers.

Streamlined Administration:
Electronic documentation minimized paperwork errors and accelerated administrative processes, enhancing cost savings and operational efficiency.

Complete Visibility:
Complete real-time visibility, capture and reporting of the entire road transport process from collection at port, transport by road, delivery to customer and return delivery of the shipping container to the container depot.

Cost savings on Device Repairs and Replacements:
By deploying the Hytera PNC460, a reliable and tough mission-critical communication device, freight forwarders and road transport companies will get unparalleled mileage in the field from their communications spend.

Conclusion:
By integrating the Hytera PNC460, Drogon ICTMS and Drogon Navigator, shipping companies gain a powerful tool to overcome challenges and drive business success. Improved communication, real-time tracking, electronic documentation and enhanced security empower companies to optimize workflows, boost efficiency, drop costs and deliver exceptional service.