



Applying IoT (Internet of Things) to container terminal operation

In order to run an efficient and reliable container port, there need to be IoT systems for certain functions in order to avoid inefficiency and duplication of process for port users. IoT with GPS system is one of the important system. As the ports running many tractors and equipment in a small area. Therefore, any lateness from the tractor will affect the efficiency of whole port operation.



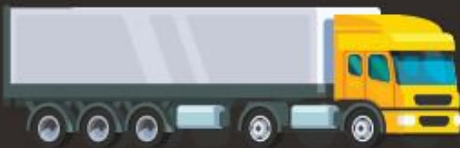
Satellite for GPS data



3G Network



End User access



Assets installed GPS Tractor



ecTrak Cloud

ecTrak Container Port GPS Solution helps container terminals to improve yard operations performance. By using GPS technology to indicate the real time actual position of container tractors or yard cranes in the container yard. Increased visibility of their movements enables yard operators to have greater control and maneuvering ability to cope with the dynamic yard traffic condition.

Solution highlights:



eMap
With detail eMap
Adding terminal's road
and stack's address



Tractor / Equipment display
Using cluster map
and heat map
Apply different filtering



Location
Combined navigation system
Bild-in Dead Reckoning
for indoor location



Multi-level management
Different level of user roles
Different level user access right



Shift management
Apply shift management



Alerts and actions
Different level alerts
Auto trigger by email& SMS



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