



biz operational benefits

- ⊕ Attach road manifests to a specific truck and assign the truck to a particular route with no human intervention since such information comes from integration with existing customs system like ASYCUDA, SIMBA, TATIS and other custom systems.
- ⊕ ECTS records events for stakeholders during a whole journey from the departure point to the destination.
- ⊕ Stem cargo diversion because most NAVISAT gazetted transit goods routes will be geo-fenced for security.
- ⊕ Access in real time the truck and cargo status, location and other pertinent event information (eg. seal tampers, checkpoint inspections, trip termination etc).
- ⊕ Receive alert information incase of diversion from system assigned NAVISAT gazetted routes.
- ⊕ illegal opening or tamper of the electronic seal or any attempts to detach the carrier
- ⊕ Access past trips from the centralized database. ECTS also has the ability to playback such trips should it or its stakeholders require it.
- ⊕ Enjoy seamless systems integration and communication among stakeholders.
- ⊕ Increase in the level of security of tracked/monitored goods.
- ⊕ Eliminate the need for physical monitoring (escorts) of transit goods. This will increase turnaround times for transporters as they shall no longer need to travel under escort
- ⊕ Increase in efficiency and accountability

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Electronic Cargo tracking System ECTS



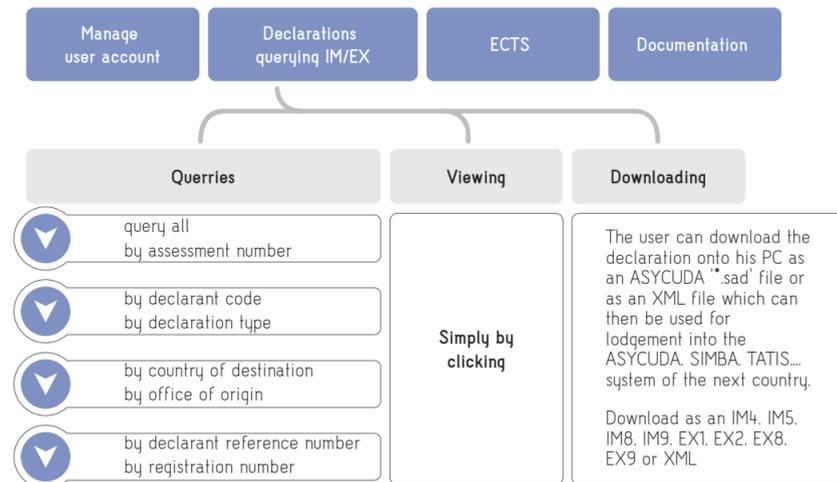
what is ECTS ?

Electronic Cargo tracking System (ECTS) is NAVISAT's electronic initiative. ECTS' main objective is to assist Private and Public Sector organizations in the Corridor States to manage and monitor the process of movement of their general, dry bulk and bulk liquids cargos in effective and efficient manner and in real-time to reduce the cost of doing business in the sub-region.

ECTS will provide among other services, ICT services to achieve more transparency and control in the movement of national and international cargo.

ECTS key modules

Data Extraction Module Functions:



Transit Bonds Module Functions: Stakeholders Management (Carriers, Agents, Banks, Customs etc.)
Bond Accounts Management
Carnet Transaction Acquittals
Bond Replenishments

Risk Management Module Functions: To receive advance information on transit cargo to assist with targeting of high risk consignments
To exchange transit information that will assist Customs to effect controls whilst facilitating legitimate trade

Tracking Module Functions:

Cargo management: Involves registration of containers, wagons, motor vehicle, Motor vehicle carriers, liquid bulk, fuel tank etc. and tracking its seal status, events and alerts during transit from the entry-point to the final destination.

Notification module: Keeps track of all seal events/alerts and status and notifies stakeholders registered as cargo observer to receive the notification on the same via SMS and Email.

Stakeholder management: Allows registration and editing details of clearing agents, shippers, ports authority's custom officers, TMU and other beneficiaries involved in the system.

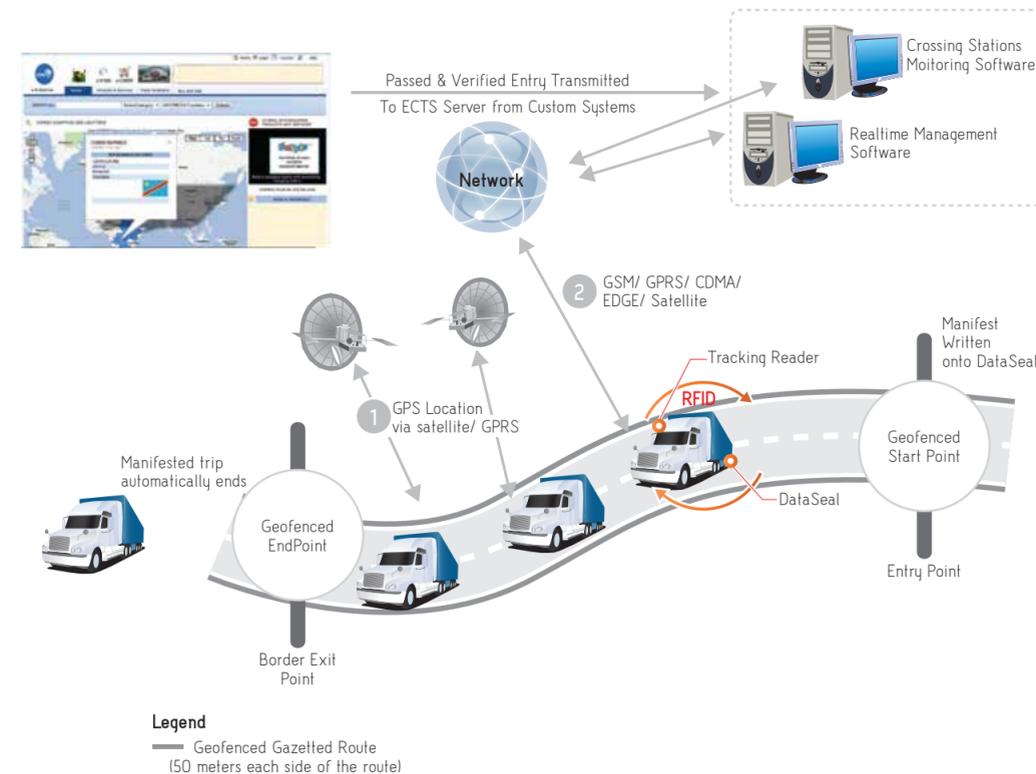
Station management: Involves registration and editing of stations which within a route including Entry-point, CFS, checkpoint, ICD and exit/border station.

Route management: Involves defining routes to be followed by cargo on transit.

Seal management: Enables capturing of electronic data seal to be used during cargo tracking in the system and assigning them to the Custom officers.

Reader management: Involves keeping track of the cargo

tracking module process flow



Tracking Containerized Cargo

Entry/Start Point: In real-time tracking for containerized cargo, once the entry has been passed from the customs system to the ECTS and dispatched to the predefined geofenced cargo start point, it is written onto the electronic Seal using the readers.

The electronic Seal is then locked to seal the cargo after the container's doors are closed.

The electronic Seal is "set" (armed) within the authorized geofenced start point and the pertinent information in the electronic Seal is transmitted through the communication network (e.g. GPRS) to the Real Time application.

The Tracking Reader mounted on the cab, begins interrogating the electronic Seal at every predetermined time interval, set in accordance with the transmission requirements as the truck moves along the Geofenced route.

The electronic Seal responds to the signals initiated by the Tracking Reader and transmits back its identity and status

Handheld terminal



Container Lock



Cargo Tracking

The ECTS enables automatic remote tracking and monitoring, data collection and protection of cargo as it is transported from one location (start point) to its destination as well as continuous monitoring of the transported cargo.

It facilitates collection of pertinent data, providing an instant view of monitored cargo.

The real-time system will "flag" to the ECTS Control Room any irregularity with the cargo. For example: The trailer has been disconnected from the track. OR. The container's electronic Seal has been tampered with.