

# Cotrack<sup>®</sup> Electronic Transit Monitoring Solution



**COTECNA**

# Transit Monitoring

## Transit Monitoring challenges

Transit Monitoring is today clearly one of the greatest challenges for Customs authorities and the trade community. Difficulties in controlling shipments and goods in transit lead to consistent losses of fiscal revenue, security issues and unfair competition.

Cotrack®, Cotecna's fully integrated **Electronic Transit Monitoring Solution**, is based on state-of-the-art technologies such as GPS positioning, electronic sealing, GSM/GPRS and satellite communications, along with appropriate procedures and logistics. Through Cotrack®, Customs generate the following benefits for their country:

**Tax and duty collection enhancement:** Allows the detection of fraudulent transit and reduces the illegal introduction and dumping of goods for which duties and taxes have not been acquitted.

**Support to a fair economy:** Protects local business and honest economical operators, by preventing unfair competition.

**Trade facilitation:** Facilitates fast decision-making at the point of entry and the quick release of vehicles at the point of exit, therefore reducing port and border congestion caused by long procedural delays. Consequently, Transit Monitoring Solution implementation can improve the country's competitiveness.

**Increased security:** Smuggling of illegal items becomes significantly more difficult for criminal organizations and allows the localization of transit cargo at any time.

**Resources optimization:** Customs staff formerly assigned as escorts can now be allocated to other services.

The use of Electronic Transit Monitoring is fully in line with the requirements of prevailing regulations and guidelines such as those prescribed by the World Customs Organisation.



## Tracking solutions adapted to transit environment

Cotecna's ground breaking Customs Transit Monitoring Solution encompasses solutions that no conventional fleet monitoring systems can provide. Through a thorough consideration of the Customs culture and procedural knowledge, Cotecna has developed **Cotrack®**, a complete monitoring solution based on innovative hardware and software technologies, providing a flexible and tailor-made solution fulfilling Customs needs.

Anticipating the technical challenge that transit operations would represent in the global Customs modernization process, Cotecna has invested close to 10 years in research, development and testing. This has led to co-operation with leading manufacturers in the field of tracking technologies, including real size tests and full project implementation. The experience gained, combined with concrete operational results, have given Cotecna a full understanding of transit monitoring stakes, allowing the company to offer appropriate solutions to its clients.

**Cotrack®** is a flexible and tailor-made solution for Customs, which takes into account the following:

- Local Customs Transit Monitoring regulations and specificities
- Possibility to interface with the Customs Management System or other Customs tools (risk management, scanners, weight measurement stations, etc.)
- All conventional transport means (road, rail, river, sea) and all cargo types (container, bulk, tank, etc.)
- Possibility to extend a one-country application to a regional application
- Independence between the three pillars of the technical solution: hardware, software and telecommunication, which can be adapted to all constraints
- Management of Customs bonds



### Key facts

- **Worldwide leader** developing a specific and dedicated solution to address Transit Monitoring challenges
- **Recognized experience** in Customs modernization programs and technology-based solutions
- **Independent solution** from hardware manufacturers and telecom operators

# State of the art technologies

## Specific and adapted equipment



Cotecna aims to provide each client with the best equipment to meet their specific needs and requirements.

- Fixed tracking units (possible configuration with immobilizer, RFID, linked with onboard car computer, GSM and/or satellite, etc.)
- Removable tracking units (GSM and/or satellite, RFID, battery sized, adaptable, temper sensors, etc.)
- E-seals (GPS/GSM embedded as an option, different sealing methods, security features, etc.)
- Sensors (humidity, light, temperature, etc.)
- Solutions specifically designed for trains, barges and tank trucks

## Web application

This innovative system is designed to be fully accessible through the internet which enables a flexible configuration and the integration of numerous stakeholders such as; clearing agents, transporters and police that can input data into the system or use the data generated by the system.

The main features of the software are:

- Transit trip management
- Electronic seals management
- Digital map management (local or internet based services)
- Interception management
- Transit bond management
- Data exchange with Customs management system
- Scalable to a regional level

As security is a major concern:

- Data access is made through a secured connection with login and password authentication
- All actions within the system are tracked and recorded in order to detect any misuse of the system even at administrative level

## Cotecna services

Cotecna offers a modular range of technical assistance and advisory services to address all needs of the involved authorities in their fight against transit fraud:

**Feasibility study:** Analysis of the transit physical workflow, Customs operations, and economical operators habits to ensure that the system is successful, well integrated and accepted.

**Solution implementation:** Complete (turnkey) implementation of the system for a guaranteed result.

**Support to operation:** Perform technical tasks that are not directly linked to Customs core responsibilities (ie. placing or removing the tracking units, logistics of the tracking units to maintain stock at departure points, etc.).

**Solution maintenance:** Service Level Agreements to ensure maximum availability of the system.

**Training and capacity building:** On Transit Monitoring Solution implementation, operation and maintenance but also on other topics of interest for Customs (risk management, valuation, etc.).

**Audits:** Audits of operations, performance and maintenance of the system with proposals for improvement.

**Financing:** Availability of structured financing packages of a PPP type (Public Private Partnership), such as a BOT (Build Operate Transfer) or a concession.



# Integrated solutions

## Trade facilitation portfolio

**Transit Monitoring Solution** plays a central role in Cotecna's comprehensive trade facilitation portfolio. As such, it can also be purchased in combination with some of our other technology solutions such as cargo scanning, explosives detection, weight measurement or radiation detection.

**Cargo scanning:** Cotecna is the world leader in the use of X-ray scanners in the framework of Government destination inspection programmes. If scanners are placed at the entry and exit points of a country, they can enable Customs to determine if the cargo has been modified.

**Weight measurement:** Like scanners, weight measurement systems are able to monitor any changes in cargoes through weight difference controls.

**Explosives, drugs and radiation detection:** Transit operations are also a threat to national and international security. As a consequence, Cotecna also proposes services in explosives, drugs and radiation detection.

As part of Cotecna's integrated solutions, all of the above services can be seamlessly combined with our Transit Monitoring package and thus have an even stronger and greater effect by further enhancing the performance of our clients and maximizing their efficiency.

## Senegal success story

- 670 tracking units
- 1 600 transits monitored per month
- 6 border posts connected to the system
- **Full Customs satisfaction:**
  - Better knowledge and control of the transit
  - Suppression of escorts, significantly reducing the risk to Customs officers' lives
  - Immediate decrease of false declarations
  - Significant deterrent effect on economical operators

## About Us

Cotecna is the worldwide leader in government inspection services, a pioneer and recognized authority in risk management programmes using scanning technologies.

Founded in Switzerland in 1974, as a privately owned company, Cotecna was first established to meet the demand for professional inspection services in the Middle East. Our entrepreneurial spirit and excellent understanding of emerging economies have enabled us to become a leading supplier of trade security and facilitation services with international credibility in inspection and testing.

Our Group offers a wide range of Customs support services, combining state-of-the-art technology and knowledge transfer with innovative, tailor-made solutions to improve and secure trade environments around the world. In addition to risk management, destination inspection and scanner integration projects, we also offer Customs modernization and valuation assistance, verification of conformity and commercial inspections.

With strong revenue growth over the past 10 years, the Cotecna group has a combined workforce of 4 000 employees and agents in close to 100 offices around the world. Our tried and tested experience is drawn from over 35 contracts in government inspection services.



**TRIED AND TRUSTED**



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