**NAME OF CASE**

FREight Transport Information Technology Solutions (FRETIS) - Intermodal Freight Terminal System (IFT) developed by TREDIT S.A.

**KeyWords:**
Access to transport networks, infrastructure and node, IT-technologies and solutions, Interoperability and standardisation: vehicles, equipment, loading units, infrastructure

**Description:**
FRETIS is a unique state-of-the-art software package that provides the user with a complete and comprehensive tool for the management of freight transport operations in a fully intermodal environment. By using advanced Information Technologies, FRETIS provides the most cost effective solution for the management and control of all Intermodal Freight Transport related operations either in terminals or along the physical transport chain.

**Benefits:**
- Particularly favourable with smaller customers for easy/low cost access.
- Interactive web-based/M2M application, providing accurate and real time information to the port customers through Internet.
- Port clients enabled to monitor the cargo status as it progresses through the operational/administrative in port activities chain.
- Effective yard utilization and minimization of the lead time associated with the stacking activities.

**Starting Point/Objectives/Motivation:**
The practice has a particular importance because it facilitates the consolidation of the core transport logistics functionalities and its modular structure helps to fully implement an interoperable and intercommoned approach allowing the full integration of the various involved subsystems.

In current typical logistics transportation processes, there are significant lacks in the communication flow between the actors involved and communication flows are performed only via fax, e-mail or phone calls. The majority of administrative issues are manually performed and very often it is very difficult to track the cargo and automatically detect its position.

Using modular application environment technology, the peripheral subsystems are fully interoperable and interconnected, thus allowing the full integration of the various sections in the Container Terminal. Container terminals have to implement complex pricing policies, resulting in numerous combinations of invoicing cases.

All of the functions allow manual intervention, previewing and printing, allowing for paper and electronic environments to be combined in the most optimum way.

**Success Factors:**
The main success factors of FRETIS as an integrated transport chain planning and monitoring system are related to its following features: modular, flexible, extensible, scalable architecture. Moreover it combines state-of-the-art technologies to enhance productivity and performance and increase security and cost-effectiveness.

**Supported Strategic Targets:**
- Increased efficiency/productivity of logistics processes
- Increased competitiveness
- Increased quality
- High quality logistical and transport services
- Competitive logistics and transport system
- Improved use of all transport resources, cost efficiency
This product deriving from a private approach since it is developed by TREDIT S.A. and it is fully operational since 2006. Updates and new versions are deployed on regular basis to clients.

The modular structure contributes to the exploitation of FRETIS while its internal integration serves its exploitation for global services in the context of an Application Service Provider (ASP). FRETIS is based on a robust and secure communication platform which allows the smooth accommodation of relevant modules for advanced interoperability and expandability.

FRETIS software package is composed of eleven interconnected and integrated modules. Each module, or group of modules, can be installed and work independently.

The technologies applied in FRETIS suite include:

**Software**
- EDIFACT, XML, Web services, GIS/GIS over web

**Hardware**
- GPS RFID, Barcode, Smart card readers, Handheld devices, On-board units

**Communications**
- GPRS/WLAN, Security (SSL/PKI)

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