



REALSOFT CUSTOMS INTELLIGENCE SYSTEM (REALCUSTOMS)

REALSOFT
ADVANCED APPLICATIONS

OVERVIEW

Customs Authority is required to provide extensive facilitation of trade while maintaining control over the international movement of goods, persons and means of transport. It shall also maintain the law enforcement to curb fraud, increase tax revenue, control excise traders and producers, reduce administration costs and detect security threats; therefore. The right Business Intelligence (BI) implementation can play a vital role to achieve these goals at a reasonable total cost of ownership.

RealCustoms is a Customs Business Intelligence software developed by RealSoft enables customs authorities to make sustainable decisions based on facts that they can trust. It consolidates all Customs systems data into a data warehouse and enables Customs management to make immediate, short term and strategic decisions.

SYSTEM OBJECTIVES

By using RealCustom system the customs authority can:-

- 01** Ensure that better informed and smarter decisions are taken.
- 02** Automates Custom strategy development and tracking.
- 03** Ensure the collection of the customs tax with a high degree of efficiency as the revenue collected by custom is an important resource of government resources and efficient collection, as well as accounting for these revenues is vital to the national economy.
- 04** Determine the greatest areas of exposure to risk exists based on the historical data of declarations and regulatory compliance violations records.
- 05** Provide systematic and structured way of risk evaluation and prioritization: Process of comparing the results of risk analysis with risk criteria to determine whether the risk and/or its magnitude is acceptable or tolerable.

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- 06** Help custom officers to effectively prevent tax evasion, fraud and customs evasion.
 - 07** Support the process of borders control and managing and collecting revenue.

REALCUSTOM SYSTEM COMPONENTS

The Data Management :

The data management enables rapid decision-making, reporting, and forecasting based on accurate, real-time data. The data management system systematically integrates and manages internal & external data into a unified data warehouse structure. It can manage, integrate and process terabytes data that are extracted from customs internal data and data from other sources e.g. Police, trade authority, taxation and other.

Declaration information is captured on daily basis through data extraction process, and it then transformed and processed as analytical cubes for analysis and reporting. The clearance system generates several versions of declaration document and store the different versions in the CDPS database like ASYCUDA; The ETL process captures the different versions of data and load the changes into the data warehouse;

The supplementary information is extracted from different sources and integrated into the data warehouse, the supplementary data includes data about traders, passengers and others. The ETL process eliminates redundant or inconsistent information, and maintain a clean set of data. As long as the flow of high-quality information is assured, high-quality decisions can be made about trade and risk assessment

The data warehouse enables Customs to integrate goods, craft, passengers, and intelligence systems and develop better ways of identifying and mitigating risks and provide customs officer access to the facts, Information and “the truth.

The data management system is structured to provide high performance and low latency in processing huge data, and makes complex calculations like data mining algorithms.

Customs Strategy Planning

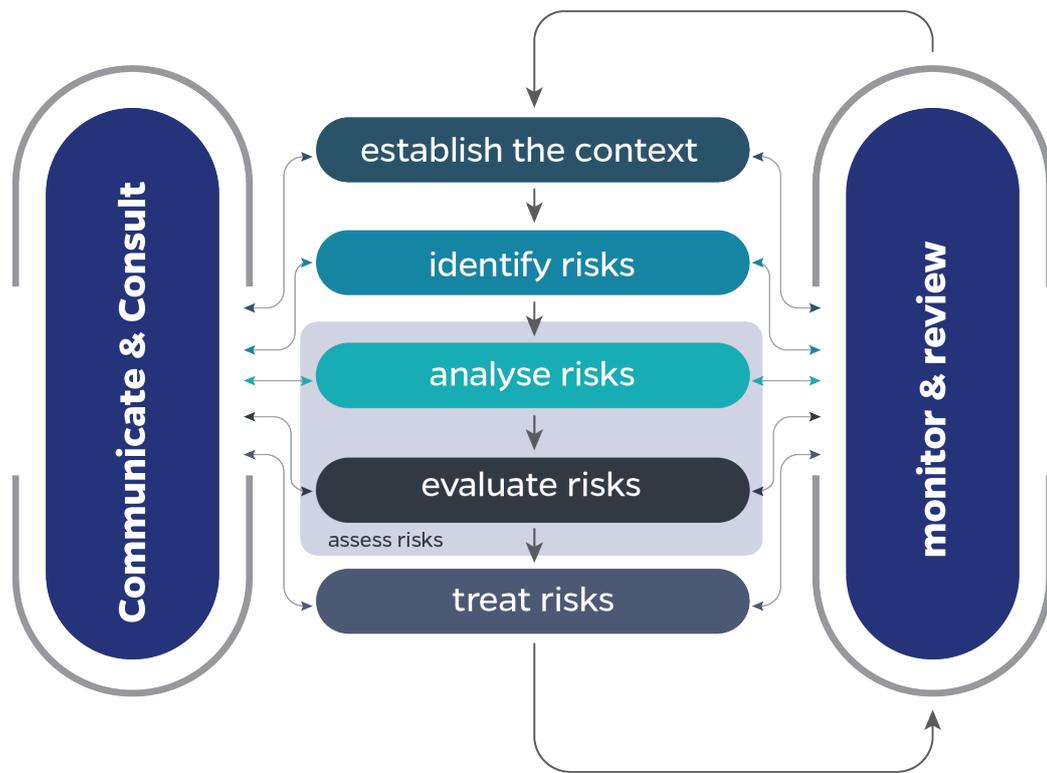
A full-stack platform for strategic planning, goal management & business reporting, the software module manages the lifecycle of customs strategy. It automates the strategy planning, management and tracking, the product provides the following functions:

- 01 Build the strategy.
- 02 Define and manage goals.
- 03 Track the goals attainment.
- 04 Share plans and initiatives.
- 05 Define and manage the KPIs.
- 06 Define risks and issues.
- 07 Reporting and visualization.

Risk and Selectivity intelligence

Risk intelligence is a core component of the RealCustoms for preventing customs fraud and economic crime based on predictable patterns, the following diagram presents the risk management process as defined by WCO.

The diagram identifies five main steps in the standard Customs risk management process the risk management process implemented in cycles. The cyclical nature of the risk management framework allows the administration to test the accuracy of its targeting figures, including through random inspections, to ensure that it is protecting New Zealand's borders and revenue. Its cyclical nature allows constant improvement.



Our product complies with WCO approach of risk management through the analytical capabilities of the BI engine and data mining features in system.

The risk analysis module provides the following analysis and insights.

- 01** Risk profile: Description of set of risks, including a predetermined combination of risk indicators.
- 02** Determine high risk and trade sensitive goods.
- 03** Constant monitoring and review in order to eliminate false negative as well as false positive risk assessments.
- 04** Measure and analyze the detected data discrepancy.
- 05** Tariff classifications analysis.
- 06** Consignments/ goods of high risk based on HS classification.

- 07 Exemption analysis.
- 08 Clearance companies profile.
- 09 Country of origin/source country and destination country profile.
- 10 Custom centers and national ports profile.
- 11 Measure the effectiveness of risk criteria in the operational system.
- 12 Assess risk levels broken down by a country's major trade flows

Unfair Trade Practices and Anti-dumping

- 01 Monitor the increase of imports for certain items over the time and how this would affect the national production of the same products and alert to the national production protection department of potential risk.
- 02 Provide online services for the local producers to develop a complaint against unfair trade practices, and provide the authority with the relevant trade data over time to take protection action when it is legitimate.
- 03 Integrate and compare the trade data at custom authority and the information disseminated through National Statistics Office and highlight the discrepancies.

Traders Risk Lists

The BI system monitors and analyzes the customs lists, the lists analysis enables the risk officers to enroll or remove traders or clearance agents from the lists based on the list criteria.

Watch lists and Black List

Different types of watch list and black lists can be managed, the BI system tracks the consignee declarations and violations over time, based on consignee compliance it may listed/ liberated in a particular list.

Golden list

When there is a golden list program for Importers, exporters, carriers (rail, sea, air, highway, and shipping agents), customs broker or couriers, the system allows to monitor and analyze the information of program data.

The golden list program provides access to simplified procedures, where Customs reduces the level of controls and relies more on internal controls applied by the trader to ensure compliance with all relevant laws and regulations.

Risk Profiles

Detailed profiles for consignees, clearance agents, countries, products and trade agreements are generated from the BI system.

profiles and alerts can be developed and implemented using the BI capabilities to effectively target cases of non-compliance.

Information Visualization, Analysis and Reporting

RealCustoms provides analytical dashboards, KPI and reports across all customs sectors ready to execute. In addition, the system provides OLAP Reports for self-service analysis and reporting across all customs processes through Microsoft PowerBI©

This analytical module manages data of each customs declaration and calculates indicators of the overall situation in customs clearance and customs control online, the following analytics are configured for direct use.

- 01** Discrepancies in declarations over time.
- 02** Facility and watch lists analysis.
- 03** Exemptions per beneficiary and day.

- 04** Quantity of filed and processed declarations per day,
- 05** Distribution of declaration release time.
- 06** Share of inspected cargo per day.
- 07** Number of activated risk rules.
- 08** Other indicators.

By using advanced analysis and reporting module the system can be the single supportive and decision making layer: The following levels of analysis and BI technologies are provided by the system :

- 01** Canned Reports.
- 02** Self-services business intelligence.
- 03** Data mining.