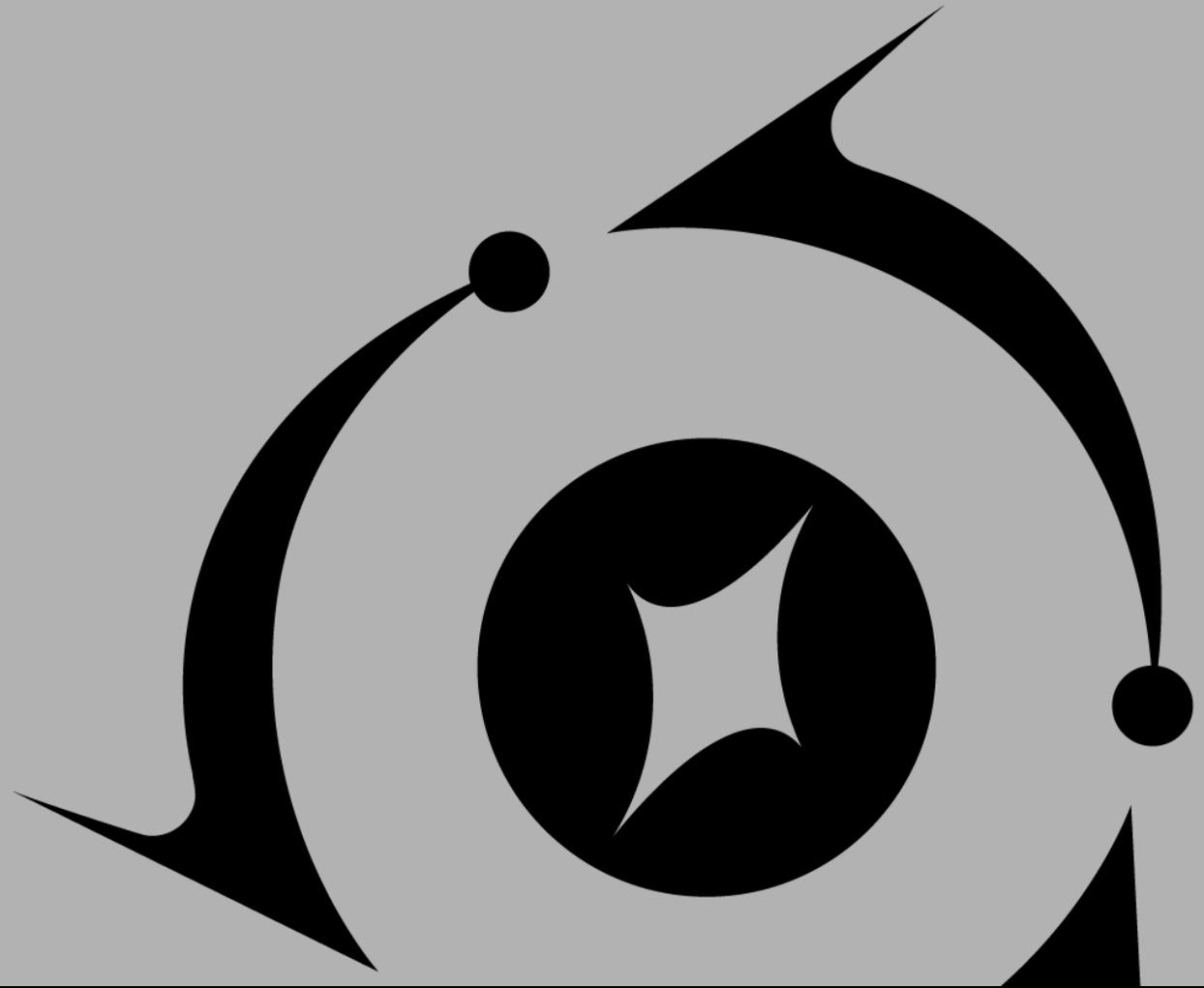


Tracker 7



System Overview

TrackerLabs

May 2009

Agenda

- **Tracker 7 Overview**
 - License Processing Workflow
 - What is Tracker?
 - Tracker Requirements and Objectives
 - High Level Features
 - Data Exchange
 - tXML, CTML
 - Supporting the Tracker community
 - www.trackernet.org
- **Tracker 7 Demonstration**
- **Questions & Answers**

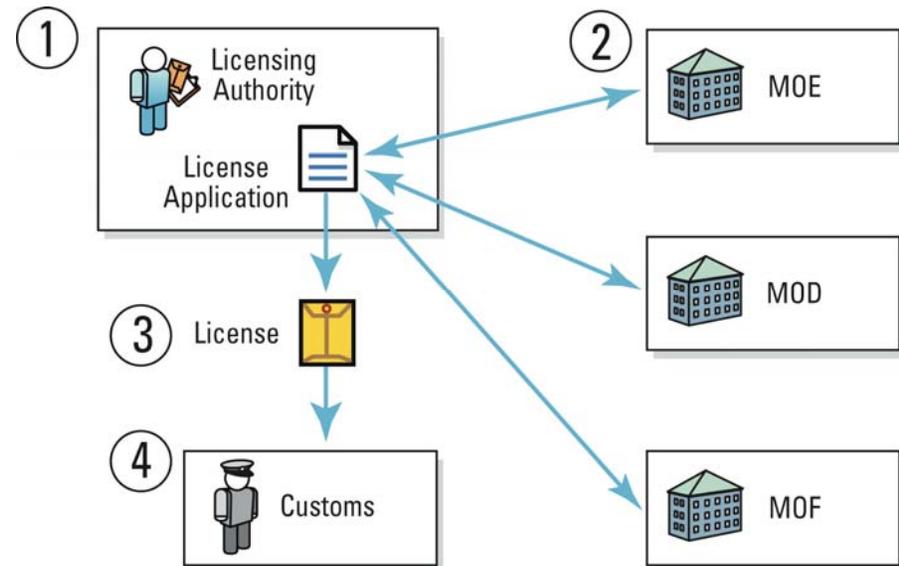


License Processing

Workflow

- **Based on standard practices, the typical flow of a license application involves:**

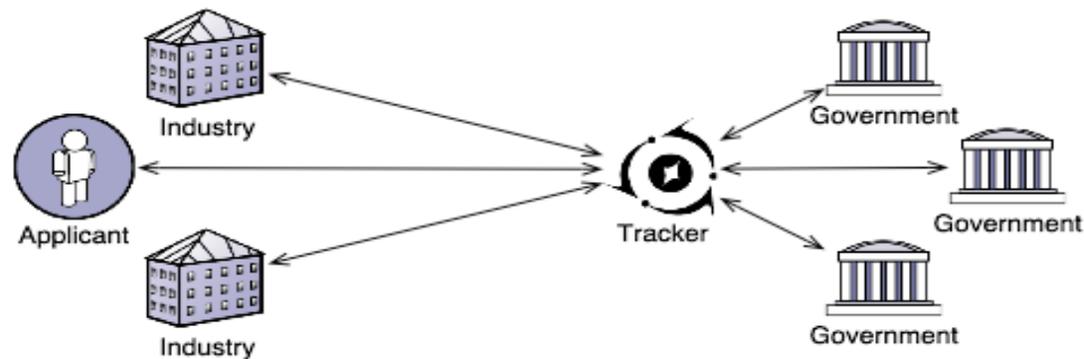
1. Review and processing of the license application by the Licensing Authority.
2. Review and/or decision of the application by relevant ministries.
 - Recording of official positions.
3. Issuing the license.
4. Post-licensing: Customs Authority processing.
 - Verifying license validity.
 - Recording shipment details, including partial shipments.



- **Can complete process be done electronically? Yes -- using Tracker 7.**

What Is Tracker?

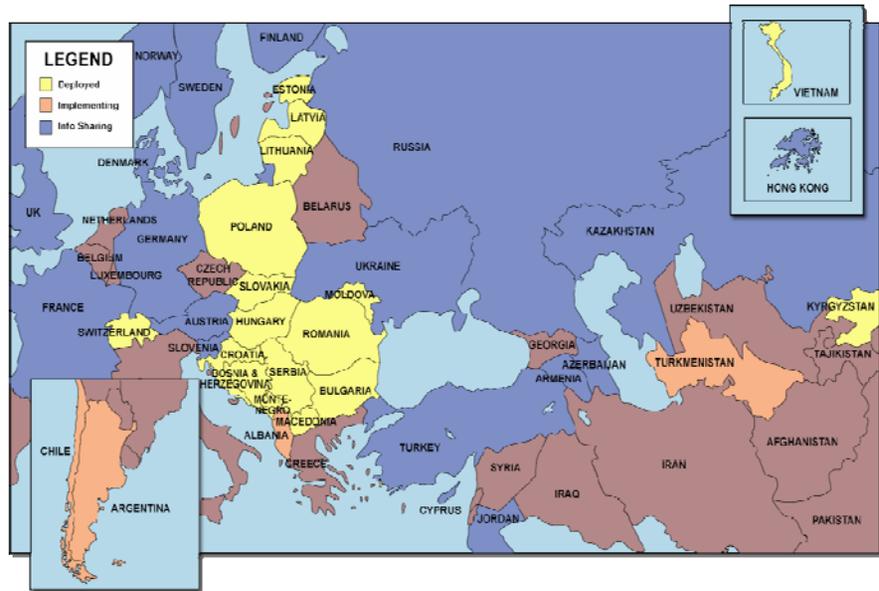
- Tracker is a software system that automates the processing of export license applications for controlled items, allowing licensing officials to coordinate internal analysis with associated government entities involved in the license review process.
- Following internationally-accepted best practices for export licensing, Tracker provides greater transparency, ensures interagency coordination, and allows countries to advance from corruptible paper-based processes to a more efficient electronic system.
- **Purpose:**
 - Assist recipient countries in tracking and monitoring trade related to potentially dangerous goods.
 - Used by licensing officers and customs officials to input, process, review, and decide export, import and transit license applications for controlled goods.



Tracker Overview

Automated Export Control System

- Began in 1996.
- Deployed in 17 countries: Bosnia, Bulgaria, Croatia, Estonia, Hungary, Kyrgyzstan, Latvia, Lithuania, Macedonia, Moldova, Montenegro, Poland, Romania, Serbia, Slovakia, Switzerland, Vietnam.
- 3 additional countries being deployed in 2009, including Albania, Georgia and Turkmenistan.
- Customized in over 20 languages and supports over 30 locales.



Tracker Overview

Requirements and Objectives

- The requirements of the current Tracker project are a mix of
 - Technical requirements to bring the Tracker system software up to date.
 - Usability requirements to improve the user experience with the system.
 - New functional requirements to support Customs or Post-Licensing activities.
- A primary goal of Tracker 7 is to adjust the system to better suit the needs of licensing and Customs officials while preparing for integration with other strategic trade control tools.

	A	B	C	D	E	F
1	DESC	CR/DEFECT	COUNTRY	DATE REPORTED	CCB PRI*	WHY
2	The Customs tariff code is critical in all countries that use Tracker. A simple field in the item details window should allow the licensing officer to enter this code.	CR 1	MOF/MOE	8/13/2008	2	Harmonized tariff codes are used by all EU countries that use Tracker
3	The Tracker interface grows more cumbersome with each release, a serious disincentive for using the program. If a new version is contemplated, it should include a modifiable form-based interface.	CR 2 = CR 9	Macedonia	8/13/2008	1	This will encourage Customs usage of the system; and provide more customs-specific information.
4	Translating the property files is difficult, time-consuming, and expensive. The Rosetta tool produces a translated list of nearly 3000 words, messages, and phrases. The initial translation generally results in a high proportion of the terms being translated out of context. Also, product properties (measurements) need to be improved.	CR 3	MOF/MOE	8/13/2008	2	Translation context is important for proper definition of tracker terms. Even one of the most important fields of data in a license; it must be easy to capture.
5	Entering the ECCN using the ratings approach requires too many steps and results in too many errors.	CR 4	Macedonia	1/10/2008	2	

What's New in Tracker 7?

Major New Capabilities

- **Relational Database Technology**
 - **Easier Integration with Third-Party Tools**
- **Case Management Tool**
- **Simplified Localization**
- **Customs Enhancements**
 - **Customs Specific Case View**
 - **DVC Acknowledgements**
 - **Shipment Verification**
- **Integrated Classification Search Tool**
- **Custom Data Fields**
- **Automated Data Transfer**
- **Improved Document Management**
- **Localizable Help System**

Tracker Overview

State-of-the-Art Technology

- **Built to be a robust, scalable and distributed network application.**
 - Object-oriented design and development - Java programming language, Java Enterprise Edition (Java EE), Swing, Glassfish Application Server, Extensible Markup Language (XML), XML Stylesheet Language for Transformation (XSLT), Java API for XML Parsing (JAXP), Enterprise Java Beans (EJB), Java Messaging Service (JMS), Java Cryptography Architecture (JCA), Java Transaction API (JTA), JBoss Cache, JavaHelp, JavaMail, JRuby, Ruby on Rails, JQuery JavaScript library, YAML Markup Language, Hibernate, MySQL.
- **Uses relational database technology to make managing complex data relationships simple.**
- **Provides high-performance analytical capability.**
- **Deployable in differing client and server configurations.**
 - Servers: Windows 2008, Enterprise Linux 5.
 - Clients: Windows Vista, XP.



High-Level Features

Case Management Tool

- Tracker 7 includes a new browser application interface to serve as a Case Management Tool.
 - Allows for creating and processing of cases (assignments, reviews, decisions).
- Provides simplified workflow tools.
- Enables browser-based generation of licenses and related documents.



High-Level Features

Relational Database Support

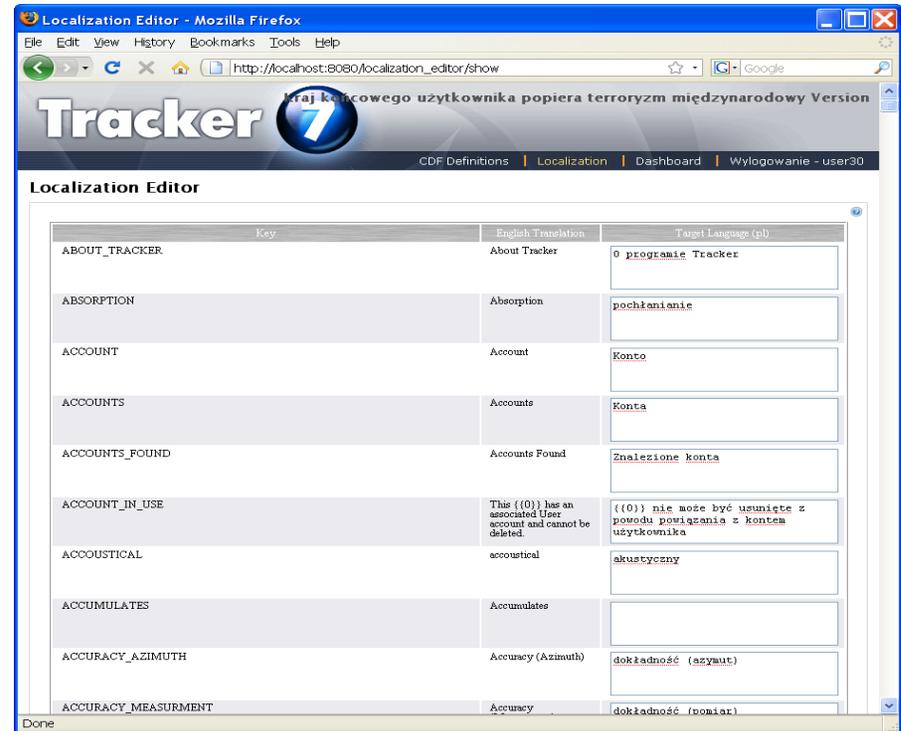
- Tracker 7 has switched to relational database technologies, specifically supporting the MySQL Community Edition.
- Removes support and dependencies for Versant database.
- Uses industry-standard tXML, so existing Tracker installations can easily migrate Tracker data to MySQL.



High-Level Features

Simplified Internationalization and Localization

- **Locale:** set of political, cultural, and regional elements represented in an application.
- **Tracker 7 Case Management Tool** contains a localization editor feature.
 - Accessible in-context by clicking on display labels within the browser application.
 - Also accessible in a list format showing all localizable text within the Tracker system.
 - Permissions based.
- **Previous localized terms are used (.properties); only new terms require localization.**



High-Level Features

Customs Specific Case View

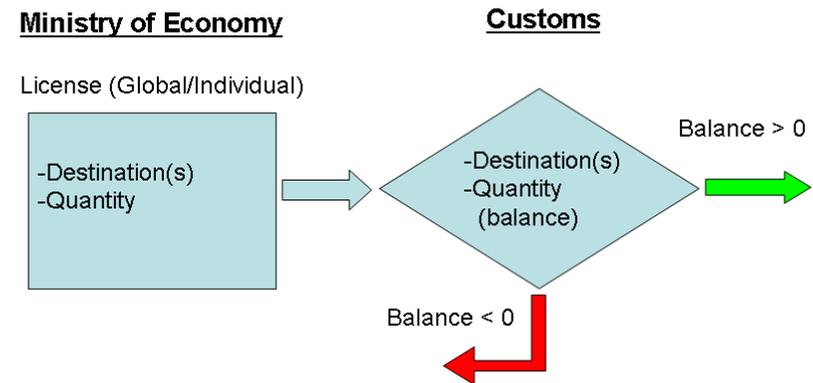
- Tracker 7 provides the capability to view and enter case data using simplified layouts containing only those fields that are relevant for Customs processing purposes.
- Includes the addition of several new fields to the Tracker domain data
 - Tariff Code (HSN)
 - Means of Transportation
 - Shipment and Transportation Information
 - Route of Transportation.

High-Level Features

Shipment Volume or Quantity Verification

- Tracker 7 provides support for capturing shipment data.
- Subtracting volume or quantity amounts from license data as shipments are logged by Customs officials at border points.

Verification process for Global and Individual licenses



High-Level Features

DVC Acknowledgement

- Tracker 7 provides ability for Customs officials to acknowledge Delivery Verification Certificates (DVC) when goods cross borders.
- Customizable default acknowledgement text can be used, with additional comments added as necessary.

Form Approved OMB No. 3094-0106, 3094-0107

FORM BUS-647-P (REV. 4/93) U.S. DEPARTMENT OF COMMERCE
Bureau of Industry and Security

DELIVERY VERIFICATION CERTIFICATE

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Director of Administration, Room 3025, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20516, and to the Office of Management and Budget, Paperwork Reduction Project (3094-0106, 3094-0107) Washington, DC 20503.

Notwithstanding any other provision of law, no person is required to respond to or use shall a person be subject to a penalty for failure to furnish a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.

Instructions: When required to obtain a delivery verification, the U.S. Importer shall submit this form in duplicate, to the Customs Office, U.S. importer is required to complete all items on this form except the portion to be completed by the U.S. Customs Service. The Customs Office will certify a Delivery Verification Certificate only after the import has been delivered to the U.S. importer. The duly certified form shall then be dispatched by the U.S. importer to the foreign exporter or otherwise disposed of in accordance with instructions of the exporting country.

No delivery verification may be obtained unless a completed application form has been received. (50 U.S.C. App. § 2401 et seq., 15 C.F.R. § 748)

<small>EXPORTER (Name and Address)</small>	<small>This certification applied to the goods described below, shown on U.S. Department of Commerce International Import Certificate No. _____</small>	
<small>Name</small> _____	<small>ARRIVED (Name of Port)</small> _____	<small>DATE OF ARRIVAL (mm/dd/yyyy)</small> _____
<small>Address</small> _____		
<small>City</small> _____ <small>State/Country</small> _____ <small>Zip Postal Code</small> _____		
<small>IMPORTER (Name and Address)</small>	<small>NAME OF SHIP, AIRCRAFT, OR CARRIER (Include numbers on bills of lading, airways bills, etc.)</small>	
<small>Name</small> _____		
<small>Address</small> _____		
<small>City</small> _____ <small>State/Country</small> _____ <small>Zip Postal Code</small> _____		

DESCRIPTION OF GOODS	QUANTITY	VALUE (FOB, CIF, etc.)

TO BE COMPLETED BY U.S. CUSTOMS SERVICE REGION NO. _____

(Custom's Seal) CERTIFICATION: is hereby certified that the importer has produced evidence that the goods specified above have been delivered and brought under the Export Administration Regulations of the United States.

Signature _____ Date _____

<small>ENTRY</small>	<input type="checkbox"/> <small>WAREHOUSE</small>	<input type="checkbox"/> <small>CONSUMPTION</small>	<small>NUMBER</small>	<small>DATE</small>
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Delivery Verification Certificate Acknowledgement

DVC Acknowledgement:



Border Crossing Point:

Tbilisi

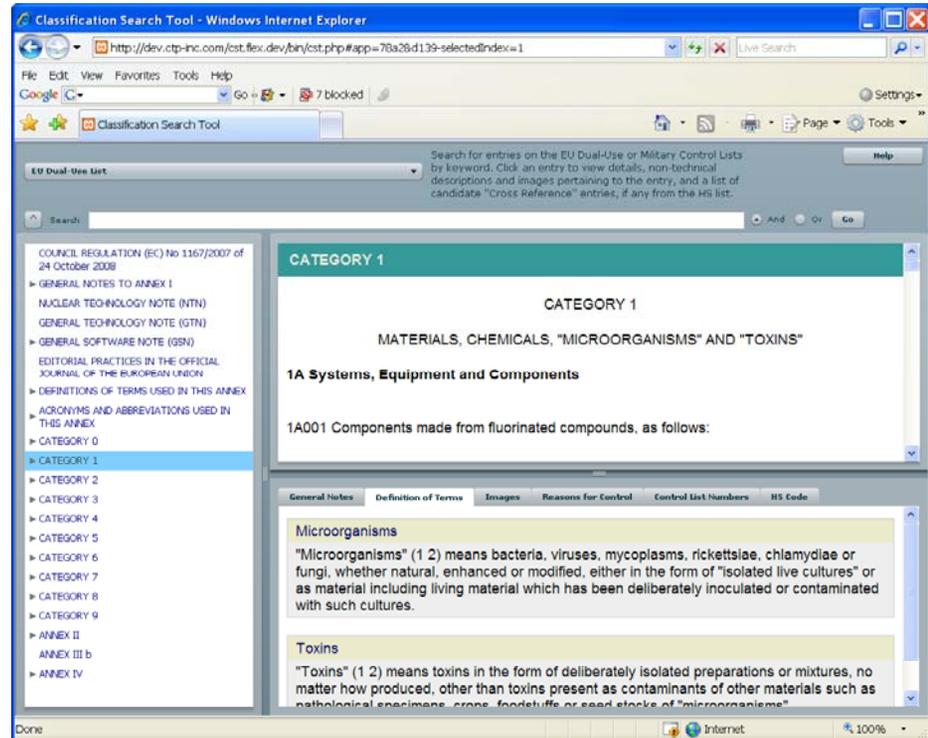
DVC Certificate Clause:

This document certifies that the importer presented reliable evidence of delivery and introduction of specified goods/technology on territory of the Republic in accordance with law in force.

High-Level Features

Integrated Classification Search Tool

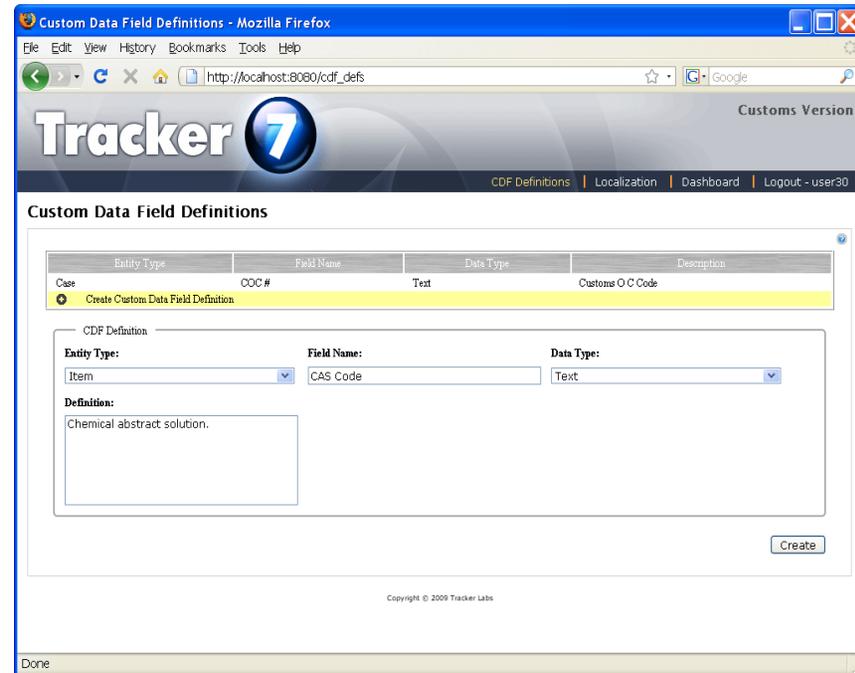
- Tracker 7 contains a configurable link to the Classification Search Tool (CST).
- CST will aid Tracker users in classifying or verifying classification of commodities based on Export Control Number (ECN), Harmonized System (HS) Tariff Code, or other control list numbers such as a National Control List.



High-Level Features

Custom Data Fields

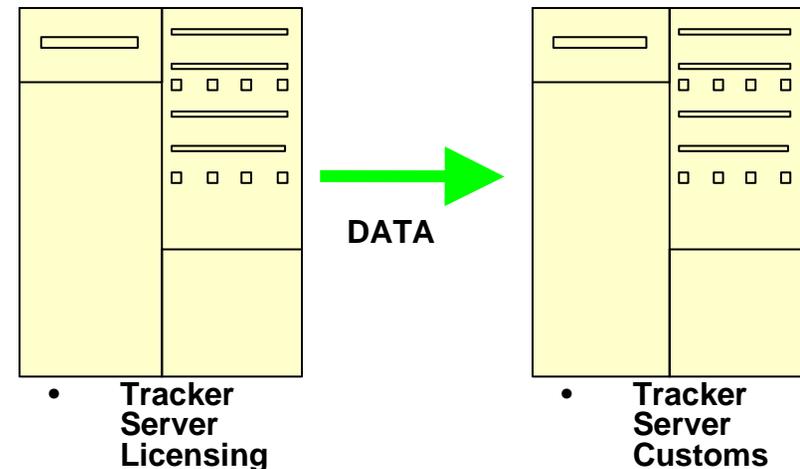
- Tracker 7 introduces a **Custom Data Field (CDF)** capability.
- Allows users with appropriate system permissions to create new data fields for **Cases, Items, Parties, and Locations.**
 - displayed in new Case Management Tool and the traditional Tracker client application.
- **CDFs are localizable and are available on Tracker reports.**



High-Level Features

Automated Data Transfer

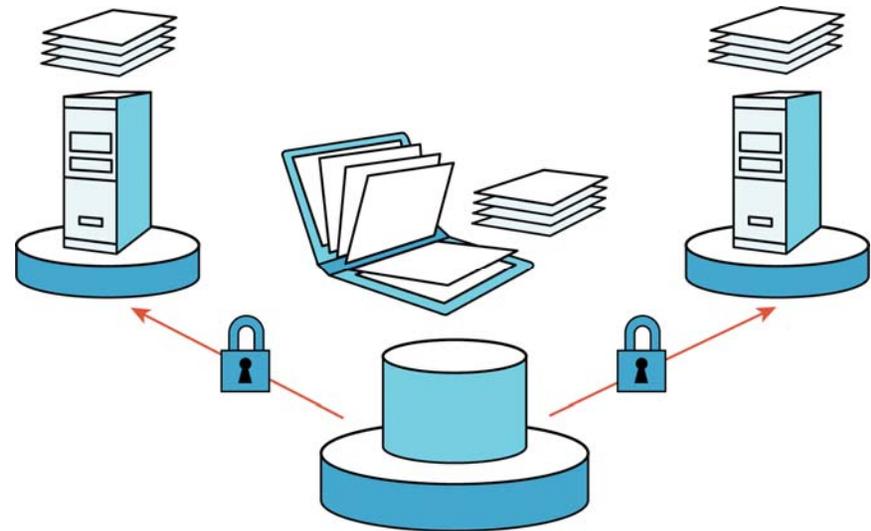
- Automated capability to ‘push’ Tracker data from one server to another.
 - Licensing installation to a Customs installation.
- Data transfer is configurable to a specific day and time; can be automatically recurring or can be performed on demand.
 - Define data criteria or filters to limit scope of data to be transferred.



High-Level Features

Document Management

- Documents have links to other Primary Domain Objects (PDO) such as Cases, Parties, Items and more; complete history of changes.
- Document Abstraction Layer (DAL) can communicate with versioning or commercial document management systems.

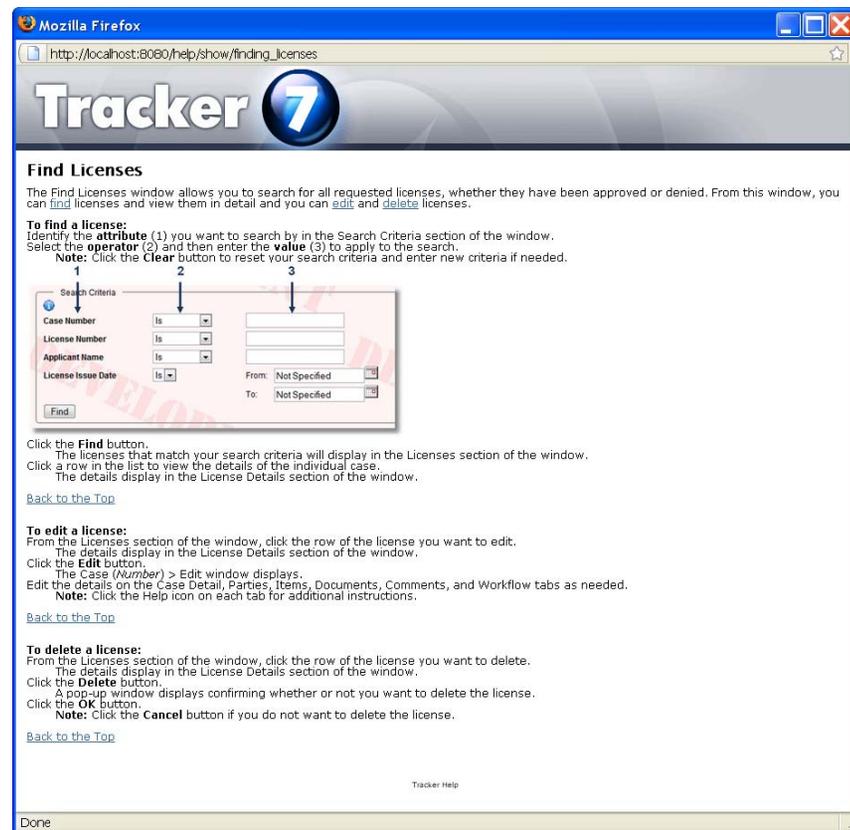


Note: Primary Domain Objects are discrete pieces of information that are essential to the domain and system.

High-Level Features

Help Displays in Other Languages

- The Tracker 7 Case Management Tool provides context-sensitive Help.
- New Help System is localizable in any ISO language.



The screenshot shows a Mozilla Firefox browser window displaying the Tracker 7 help page for 'Find Licenses'. The page title is 'Tracker 7' and the URL is 'http://localhost:8080/help/show/finding_licenses'. The main heading is 'Find Licenses'. Below the heading, there is a paragraph explaining the purpose of the Find Licenses window. This is followed by a section titled 'To find a license:' which provides instructions on how to use the search criteria. A diagram illustrates the search criteria form with three numbered arrows pointing to the 'Attribute', 'Operator', and 'Value' fields. Below the diagram, there are instructions on how to click the 'Find' button and how to view the details of a license. The page also includes sections for 'To edit a license:' and 'To delete a license:', each with instructions and a 'Back to the Top' link. The page footer contains 'Tracker Help' and 'Done'.

Find Licenses

The Find Licenses window allows you to search for all requested licenses, whether they have been approved or denied. From this window, you can [find](#) licenses and view them in detail and you can [edit](#) and [delete](#) licenses.

To find a license:
Identify the **attribute** (1) you want to search by in the Search Criteria section of the window. Select the **operator** (2) and then enter the **value** (3) to apply to the search.
Note: Click the **Clear** button to reset your search criteria and enter new criteria if needed.

1 2 3

Search Criteria

Case Number

License Number

Applicant Name

License Issue Date

From:

To:

Click the **Find** button.
The licenses that match your search criteria will display in the Licenses section of the window.
Click a row in the list to view the details of the individual case.
The details display in the License Details section of the window.

[Back to the Top](#)

To edit a license:
From the Licenses section of the window, click the row of the license you want to edit.
The details display in the License Details section of the window.
Click the **Edit** button.
The Case (*Number*) > Edit window displays.
Edit the details on the Case Detail, Parties, Items, Documents, Comments, and Workflow tabs as needed.
Note: Click the Help icon on each tab for additional instructions.

[Back to the Top](#)

To delete a license:
From the Licenses section of the window, click the row of the license you want to delete.
The details display in the License Details section of the window.
Click the **Delete** button.
A pop-up window displays confirming whether or not you want to delete the license.
Click the **OK** button.
Note: Click the **Cancel** button if you do not want to delete the license.

[Back to the Top](#)

Tracker Help

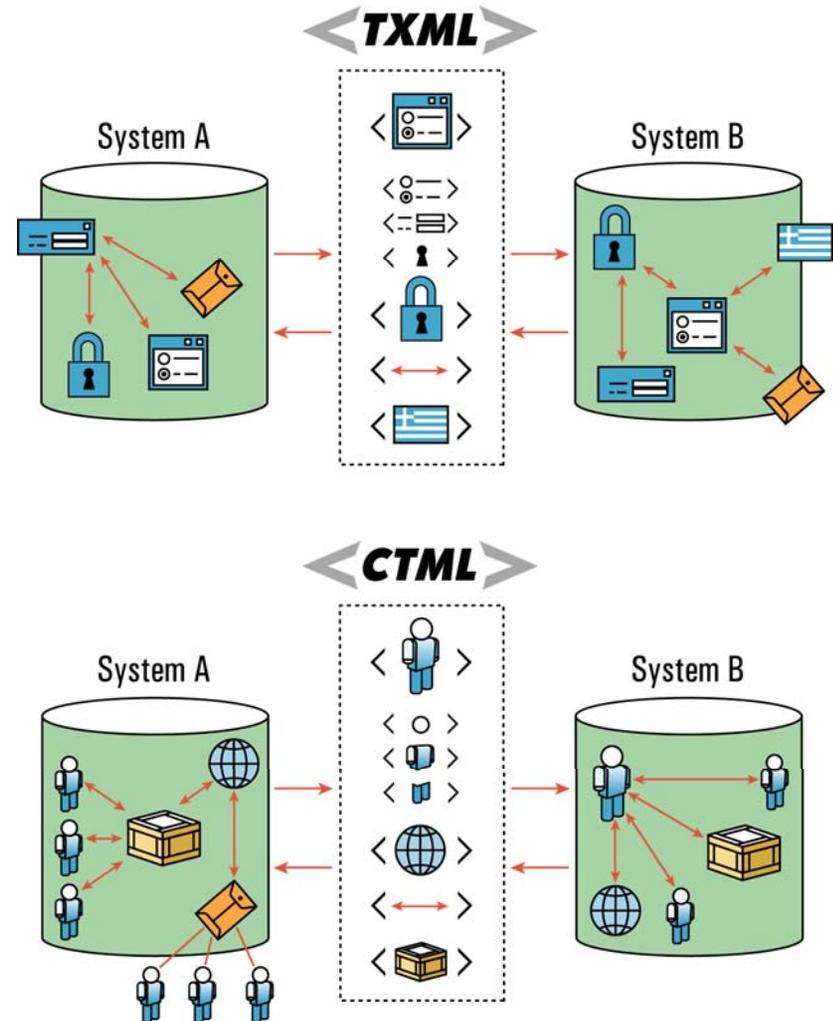
Done

Additional Functionality

- **Complete Object Domain** 
 - Provides a complete set of relationships between all the major data entities that users work with including parties, products, items, locations and license applications.
- **Data Pedigree** 
 - Allows users to appropriately label and view metadata – how, when and by whom a particular set of data was collected – about the information going out of and coming into Tracker systems (via data import or export).
- **Decision Notification** 
 - Introduces a notification capability, which supports countries that closely coordinate their licensing decisions. When license applications are given a final decision, the Tracker system can generate a notification containing succinct information about the parties and products involved.
- **Document as Primary Domain Object** 
 - Improves the document storage method in Tracker so that the use of file systems or document management systems may be used in conjunction with Tracker.

Sharing Information Using Open Standards

- **XML (Extensible Markup Language) represents an industry standard to exchange information across disparate systems.**
 - Provides a simple and portable mechanism for transferring data between different applications and users.
- **Tracker 7 allows like or disparate systems to share data, and utilize third-party tools such as Crystal Reports™.**
- **Uses the Controlled Trade Markup Language (CTML) and the Tracker Markup Language (tXML).**



Sharing Information

Supporting the Tracker Community

- TRACKERNET provides support for the entire user community - source of programmatic information as well as technical resources.
- Current Tracker training guides and system documentation, frequently asked questions (FAQ), discussion forums and other useful resources.
- Request support or submit a suggestion directly to the Tracker Help Desk for assistance.

<http://www.trackernet.org>

