International TIR Data Bank Web Service (ITDBWS)

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Overview

1
- **International TIR Data Bank (ITDB)**
  - Mandate
  - ITDB online+ web application

2
- **International TIR Data Bank Web Service**
  - Mandate
  - eTIR integration
  - Functions

3
- **Secure Web Service Demo**
  - Java client

What is ITDB?

The official registry of transport operators authorized by Customs Authorities

It contains data on 70'000+ companies of which 34'000+ are active

Legal basis for ITDB

- Article 6.4 and 6.5

- Annex 9/Part II

- The terms of reference of the TIR Executive Board (TIRExB)
  The establishment and maintenance of an international Governmental TIR data bank accessible to all Contracting Parties

ITDB history

- **Paper** based information (letter, faxes, etc.)

- **Electronic files** (Excel, Word, etc.)

- **ITDB2001** Microsoft access application

- ITDB online+ **website**:
  - Amendment to the TIR Convention facilitating the use of the ITDB online+ with regard to transmitting data to the International TIR Data Bank by adding an explanatory note to art 4 and 5 in Annex 9/Part II

# ITDB online+ web application

http://itdb.unece.org

- Multilingual web application to consult the TIR database (ITDB)

- Used by **authorized** Customs officers and national associations

- Data management collaborative tool between Customs authorities and national associations

ITDB online+: collaborative scenario

STEP 1 of 4 : The national association proposes a TIR Carnet holder's amendment

ITDB SYSTEM

NATIONAL
ASSOCIATION
READER and
WRITER
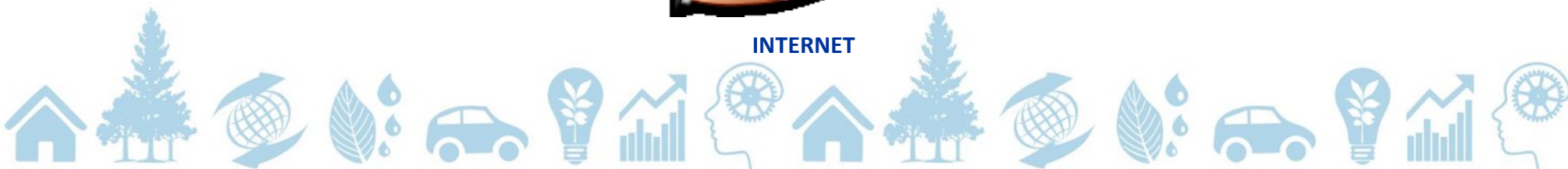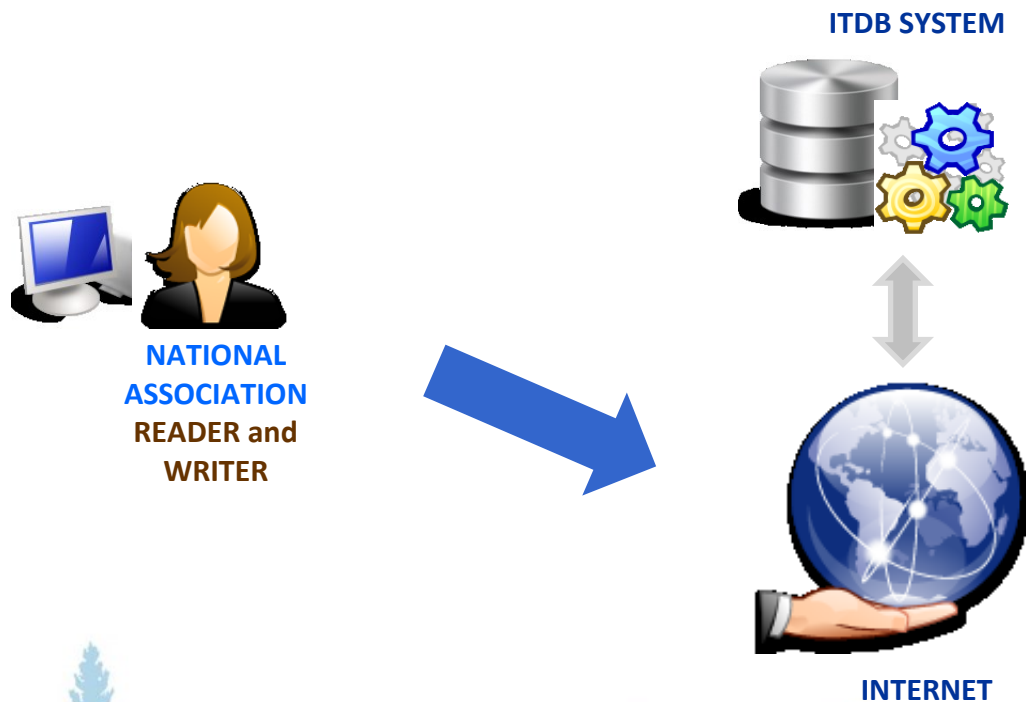
INTERNET

ITDB online+: collaborative scenario

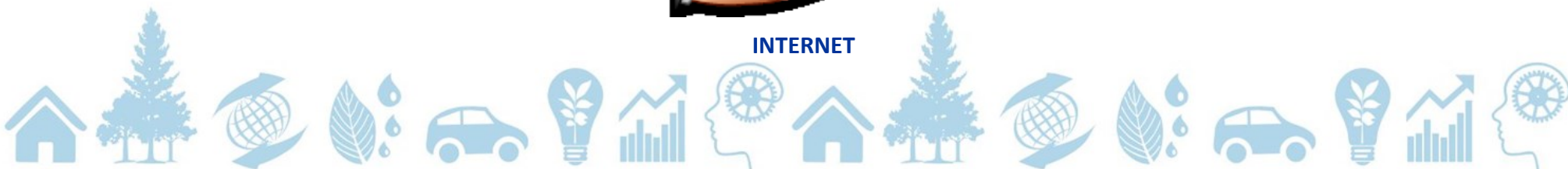**STEP 2 of 4: The system sends an e-mail notifying the Customs authorities users to take action**
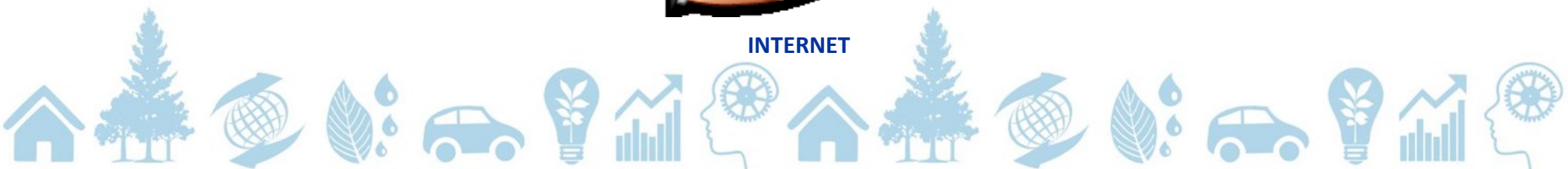

ITDB SYSTEM

INTERNET

CUSTOMS AUTHORITIES
READER and WRITER

ITDB online+: collaborative scenario

STEP 3 of 4: Customs authorities validate the amendment proposal

ITDB SYSTEM

INTERNET

CUSTOMS
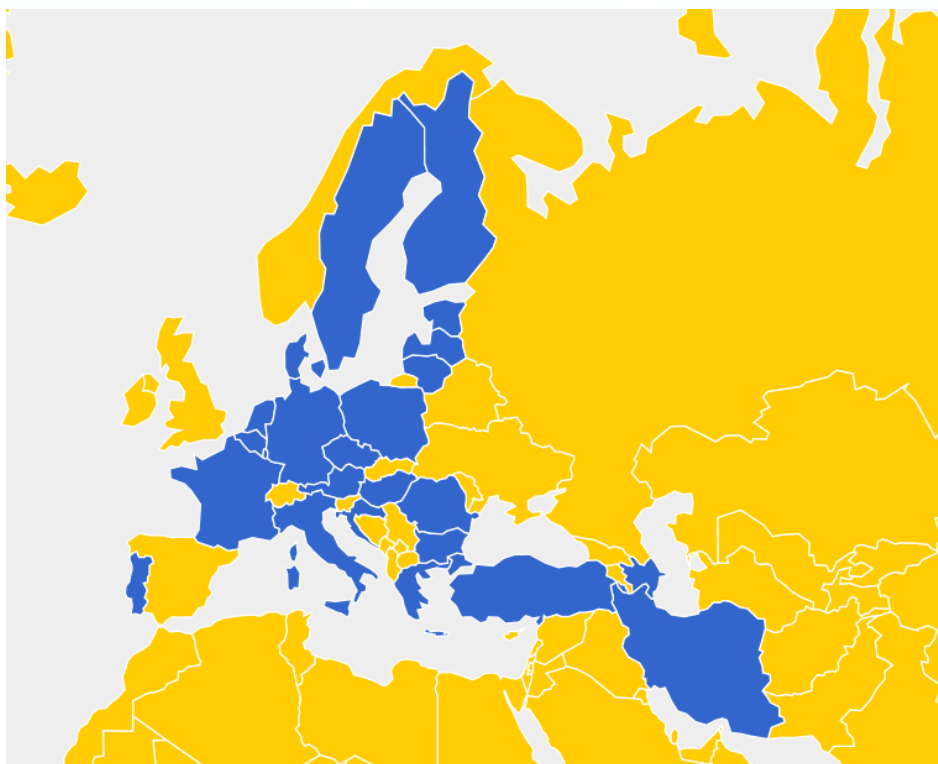AUTHORITIES
READER and
WRITER

ITDB online+: collaborative scenario

STEP 4 of 4: The system sends an e-mail to the national association notifying that the proposal has been validated
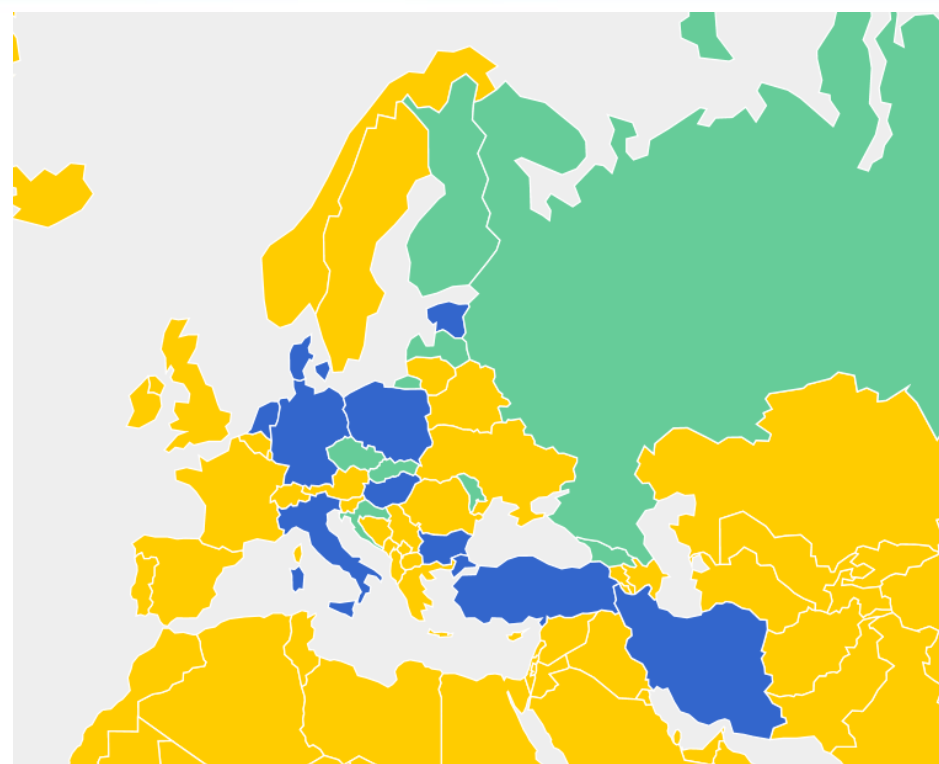
ITDB SYSTEM

NATIONAL
ASSOCIATION
READER and
WRITER
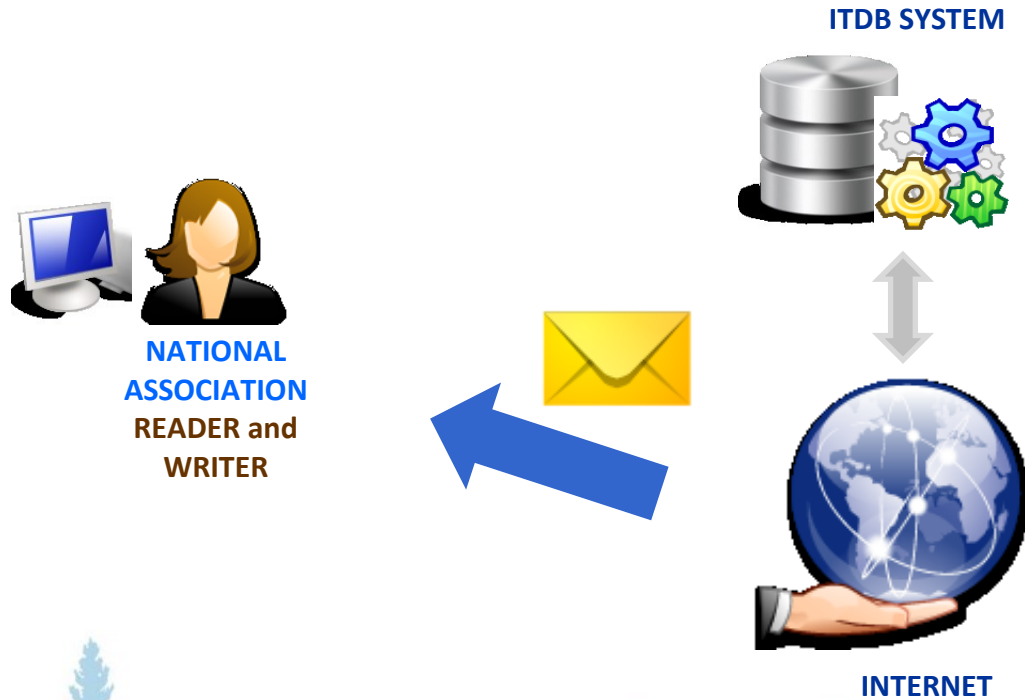
INTERNET

ITDB online+ geographical coverage

25 Customs Authorities — 10 national associations

using ITDB online+ — In the pipeline

eTIR PPP model

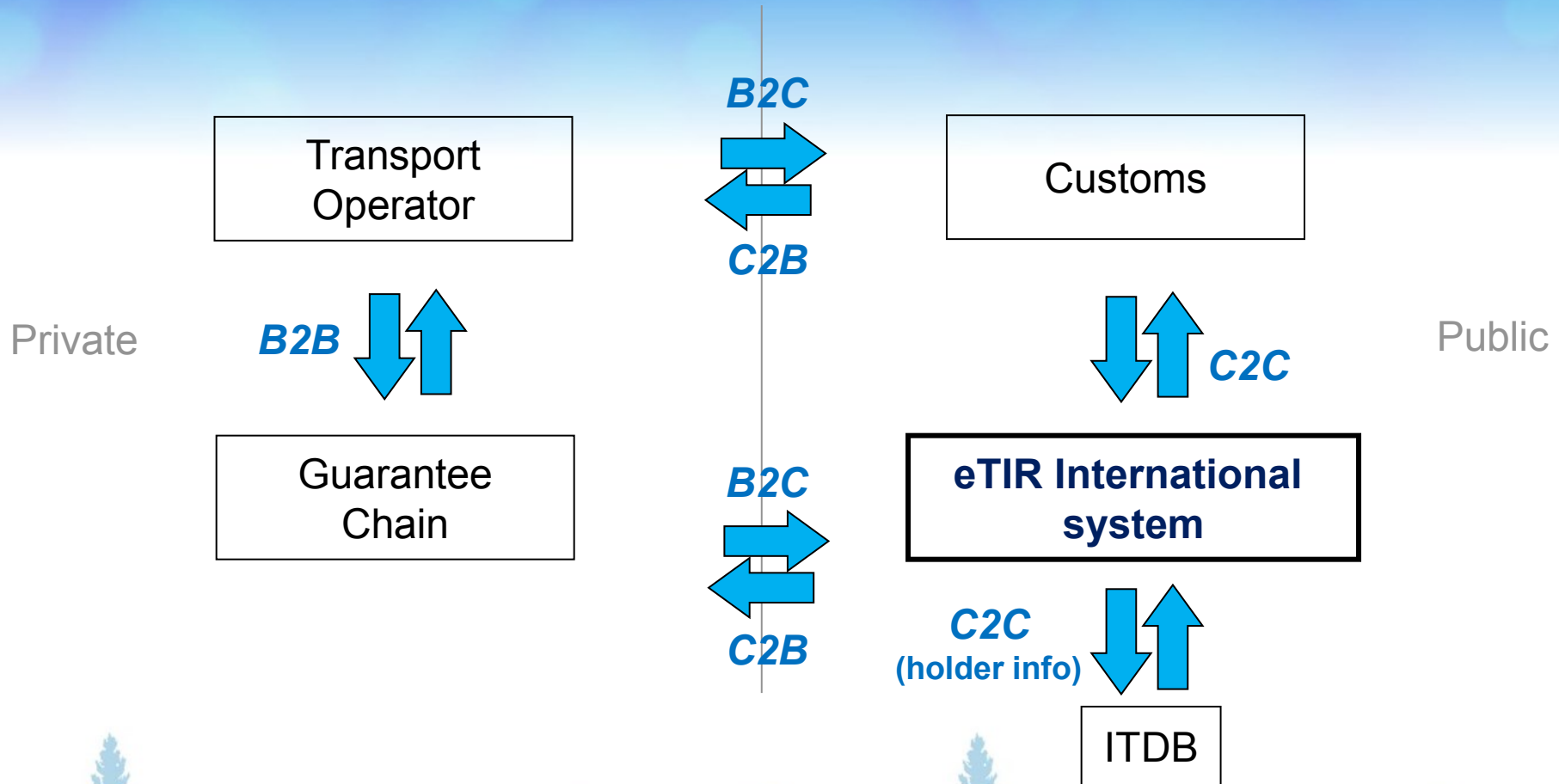Transport Operator

Customs

B2C

C2B

Private

B2B

Public

C2C

Guarantee Chain

eTIR International system

B2C

C2B
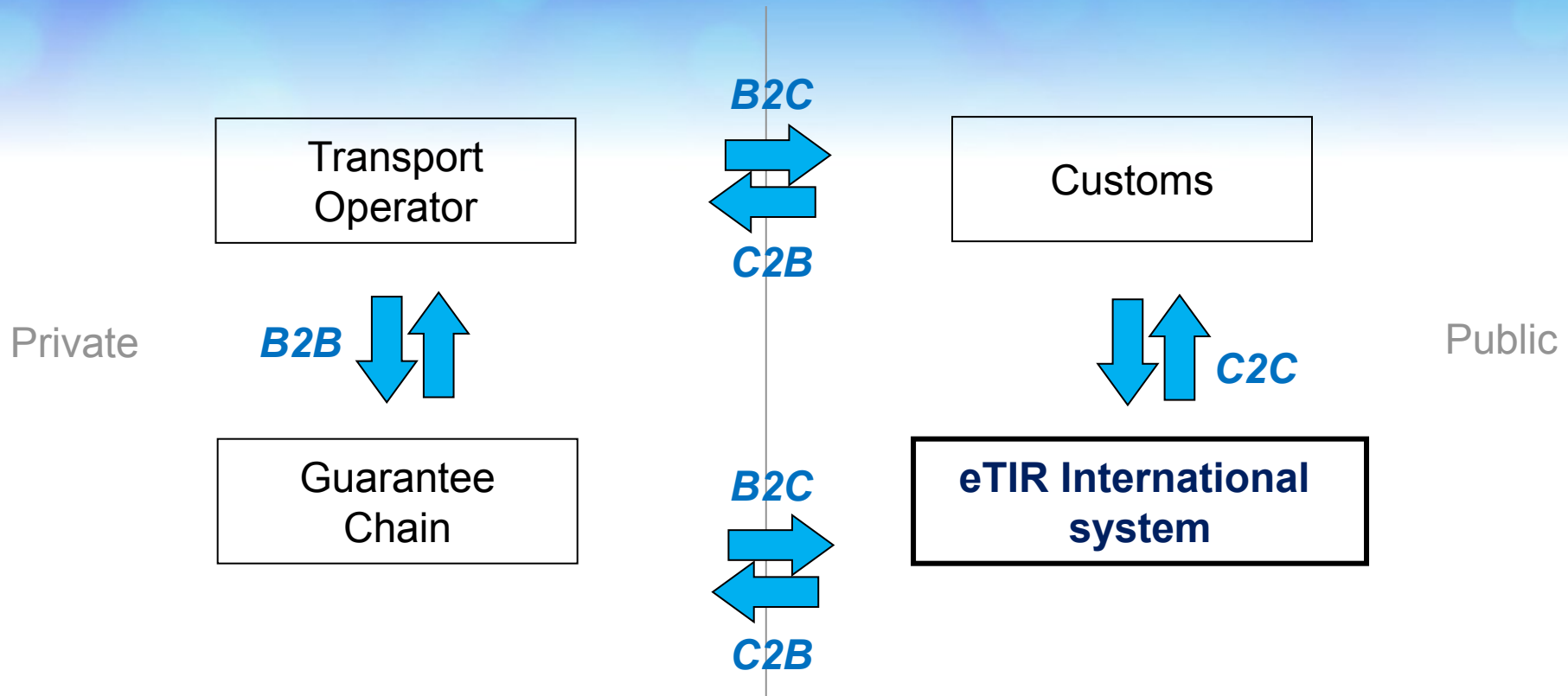
eTIR integration with ITDB

Private

Public

Transport Operator

B2C
C2B

Customs

B2B

C2C

Guarantee Chain

B2C
C2B

eTIR International system
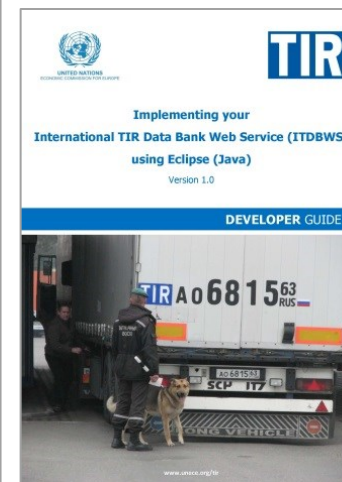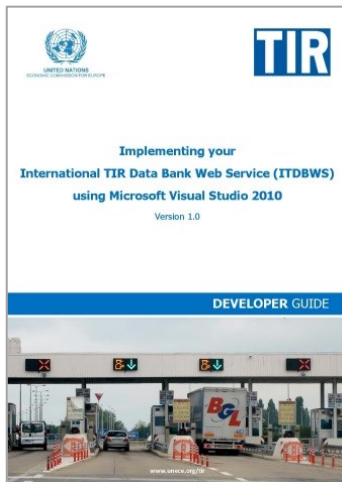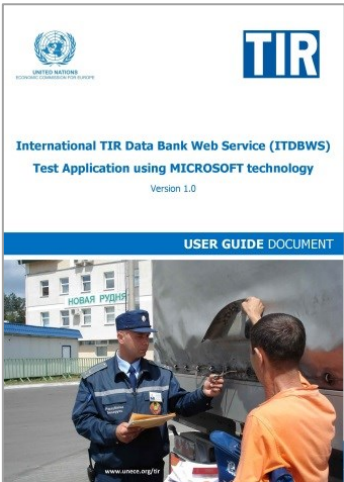
C2C
(holder info)

ITDB

International TIR Data Bank Web Service (ITDBWS) - Mandate

- eTIR pilot project between Turkey and Italy

- Document TIRExB/REP/2012/50final para. 10
  - …the Board mandated the secretariat to develop the required web services to allow the use of the data contained in the ITDB as an important step towards demonstrating the role of the ITDB in the future eTIR system.

ITDBWS specification

ITDBWS funtions

International TIR Data Bank Web Service (ITDBWS)
Technical documentation
Version 1.0

TECHNICAL DOCUMENT

www.unece.org/tir

Two functions:

1. **getHolderAuthorization**
   returns '**YES**' for an authorized holder
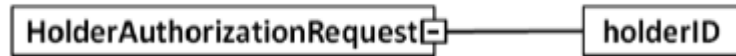   or '**NO**' for a not authorized holder

2. **getHolderInformation**
   implements **I3** and **I4** messages
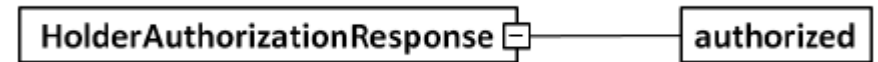   according to the eTIR Reference Model 3.0
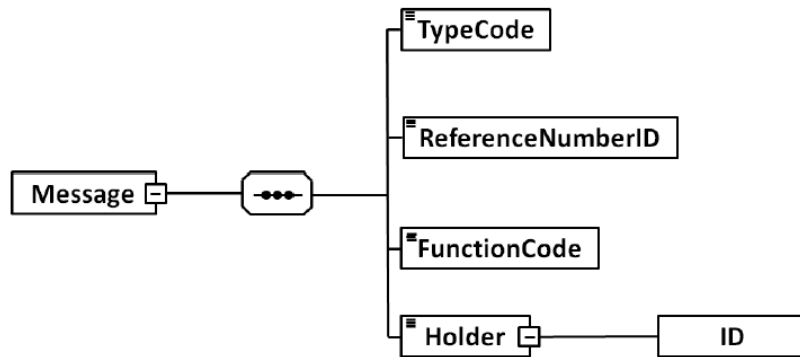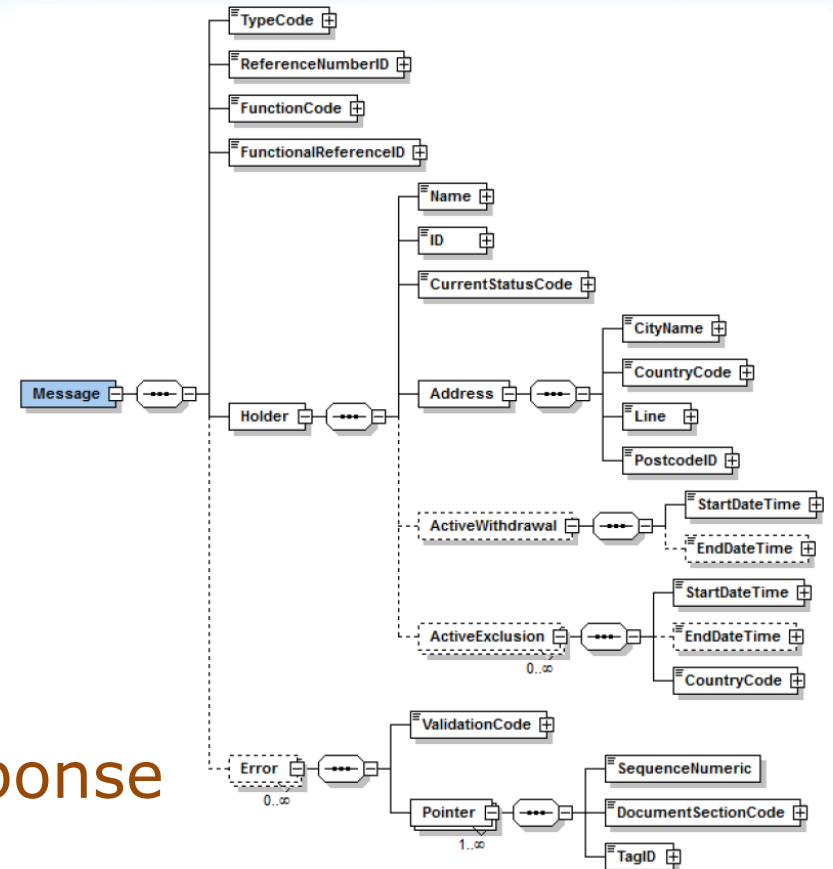
getHolderAuthorization function

HolderAuthorizationRequest — holderID

request

HolderAuthorizationResponse — authorized

response

getHolderInformation function


I3
request

I4
response

About ITDBWS

- Take advantage of open standards
  - Web Services Security X.509 Token Profile

- Authentication, encryption, signature based on digital certificates (4096 bits)

- TIR secretariat established a Public Key Infrastructure (PKI) to manage and distribute the digital certificates

- Interoperable (Java, Microsoft)

ITDBWS Demo

ITDB   App. server   Internet

FW   FW   FW
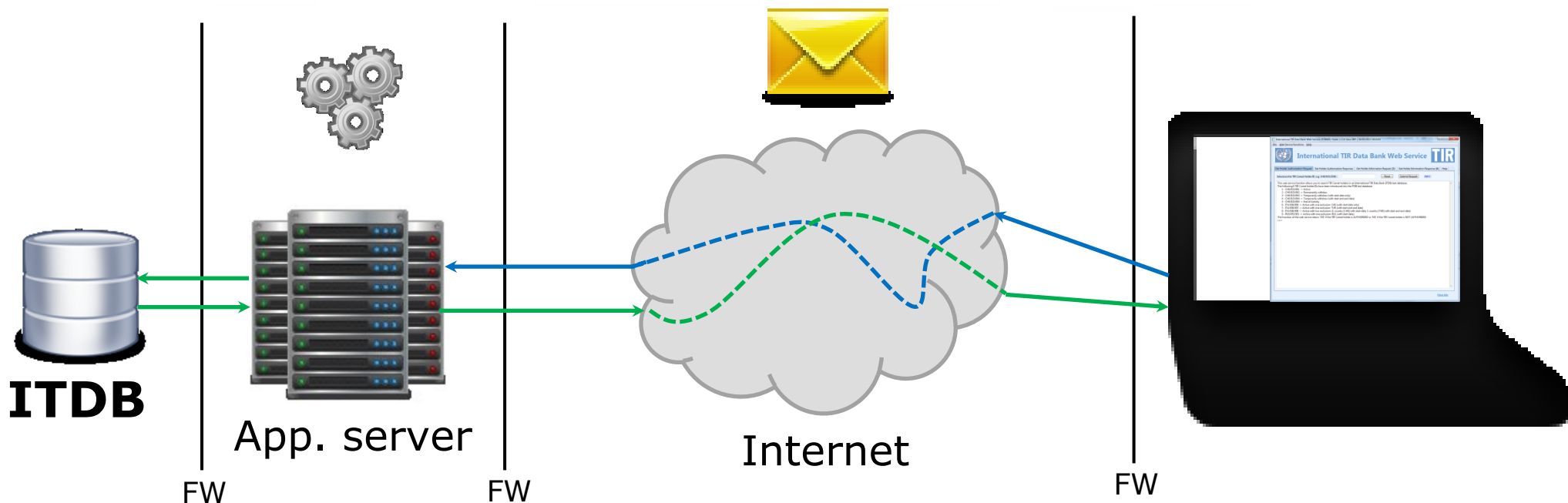
Thank you

United Nations Economic Commission for Europe
Transport Division

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