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

- 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

http://itdb.unece.org
STEP 1 of 4: The national association proposes a TIR Carnet holder’s amendment
STEP 2 of 4: The system sends an e-mail notifying the Customs authorities users to take action
STEP 3 of 4: Customs authorities validate the amendment proposal
STEP 4 of 4: The system sends an e-mail to the national association notifying that the proposal has been validated.
ITDB online+
geographical coverage

25 Customs Authorities

10 national associations

- Using ITDB online+
- In the pipeline
eTIR PPP model

Transport Operator

Customs

Guarantee Chain

B2B
C2B
B2C
C2B
C2C

Private

Public

eTIR International system
eTIR integration with ITDB

Transport Operator

Guarantee Chain

B2B

C2B

B2C

C2B

B2C

C2C

Customs

eTIR International system

C2C

(holder info)

ITDB

Private

Public
• 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
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

Request:
- HolderAuthorizationRequest
- holderID

Response:
- HolderAuthorizationResponse
- authorized
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

FW

FW

Internet

FW
Thank you

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