

Georgia- Turkey eTIR pilot project

Informal Ad hoc Expert Group on Conceptual and Technical
Aspects of Computerization of the TIR Procedure
26th Session

André Sceia / May 18-19, 2017



The eTIR project: from theory to practice

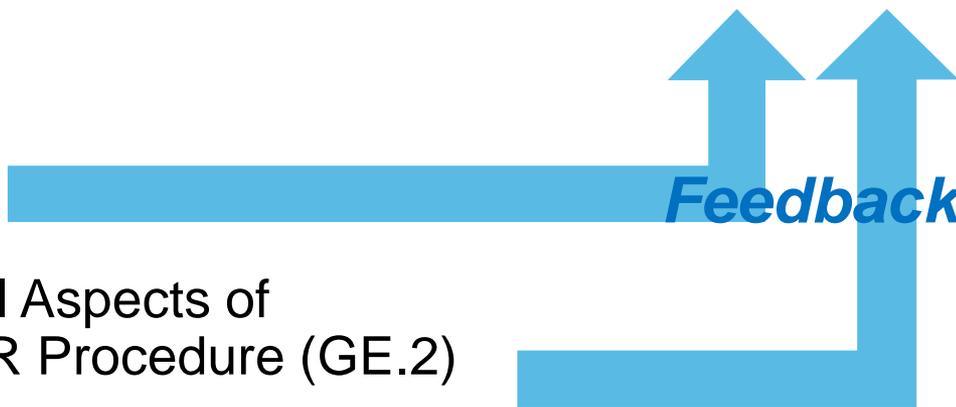
- Informal Ad hoc Expert Group on Conceptual and Technical Aspects of Computerization of the TIR Procedure (GE.1)



eTIR Reference Model – Version 4.1a (EN  / FR  / RU )

The reference Model contains the full description of the TIR Procedure Computerization Project. This document is intended to facilitate the work of the Informal ad hoc Expert Group on Conceptual and Technical Aspects of Computerization of the TIR Procedure and to provide modelling support.

- eTIR pilot projects
 - Georgia-Turkey
 - Iran-Turkey
- Group of Experts on Legal Aspects of Computerization of the TIR Procedure (GE.2)
 - Works on the legal provisions



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Parties

Organization



Customs Administrations



Consultants



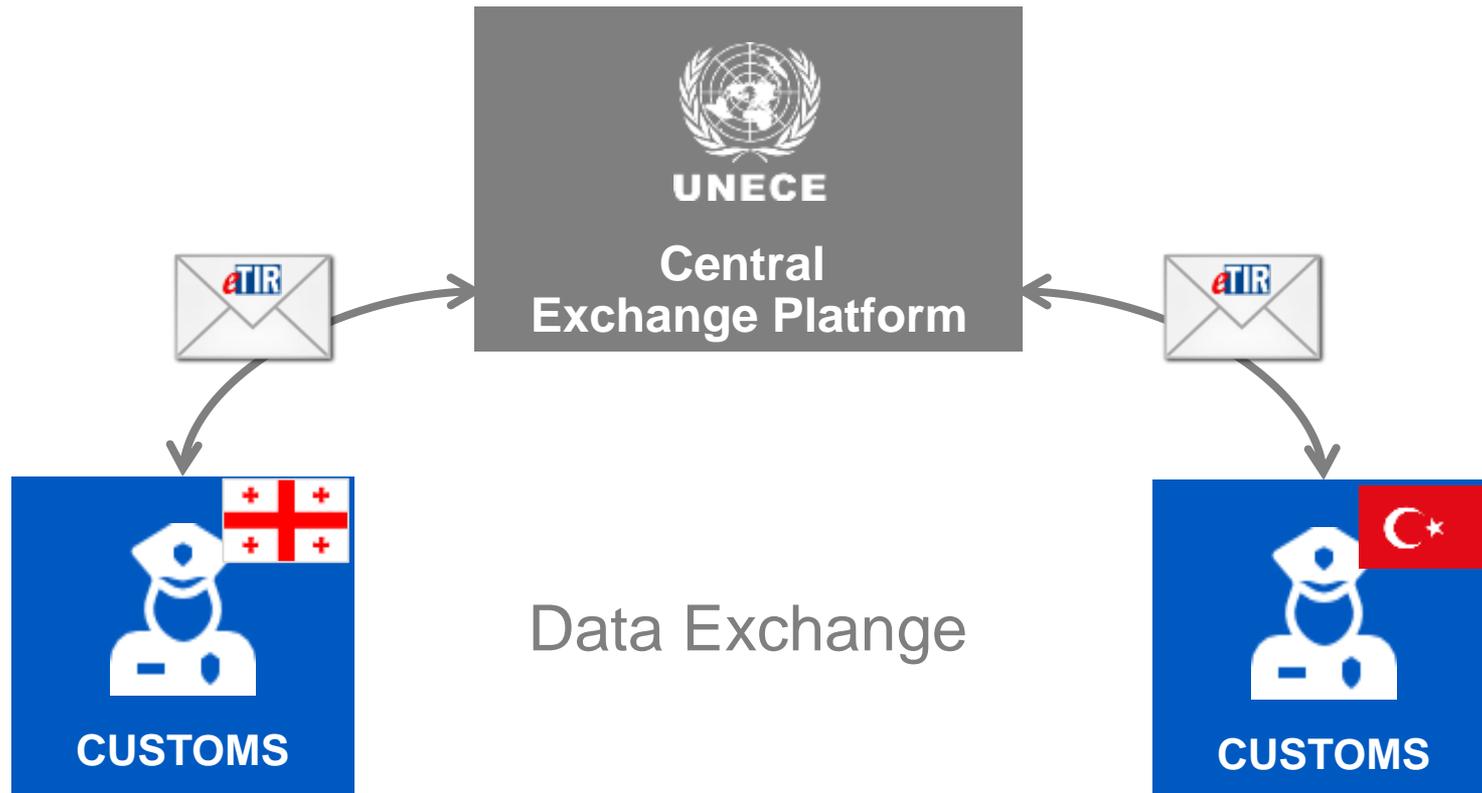
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Scope



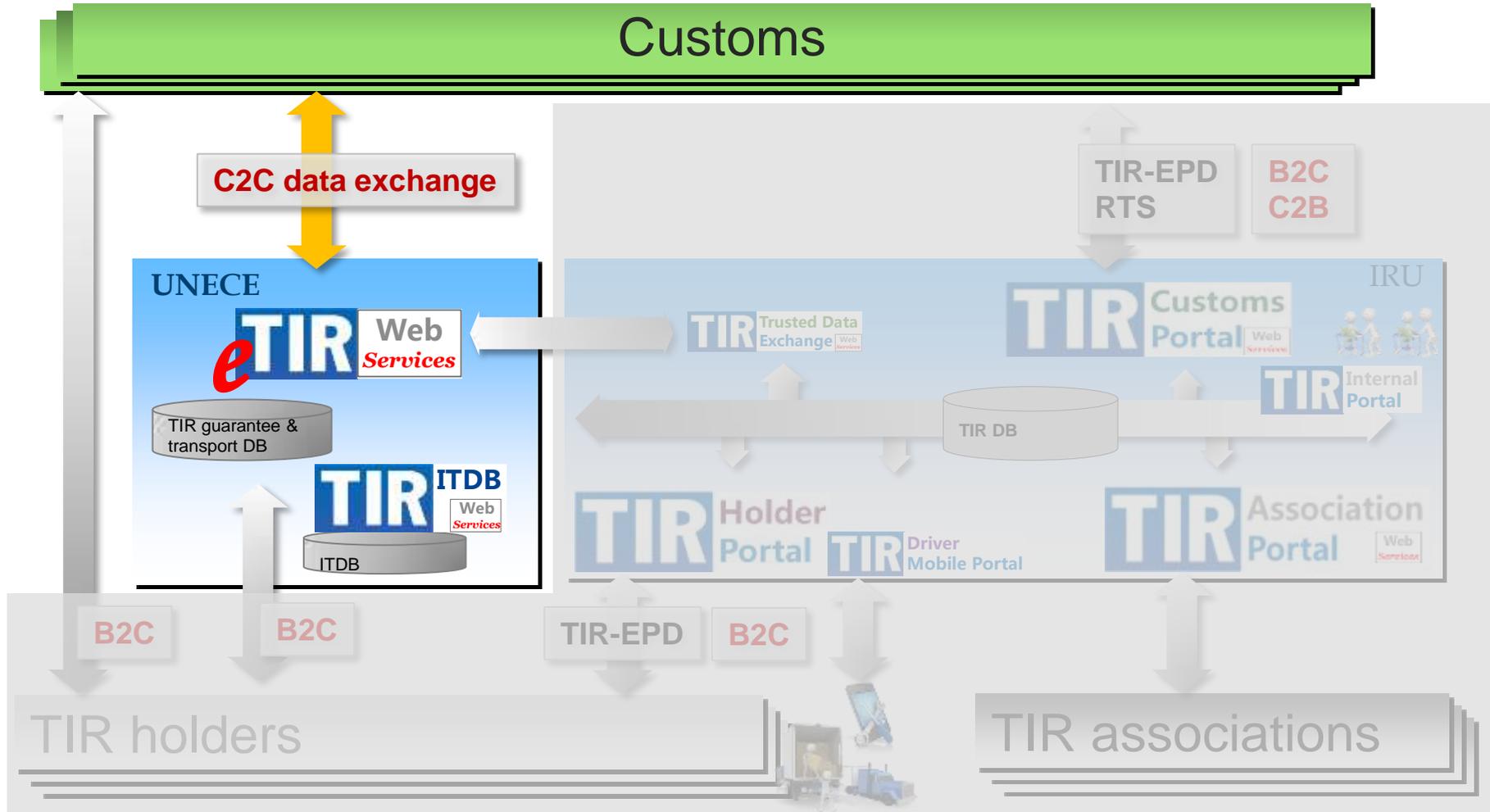
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Objective



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High-level architecture

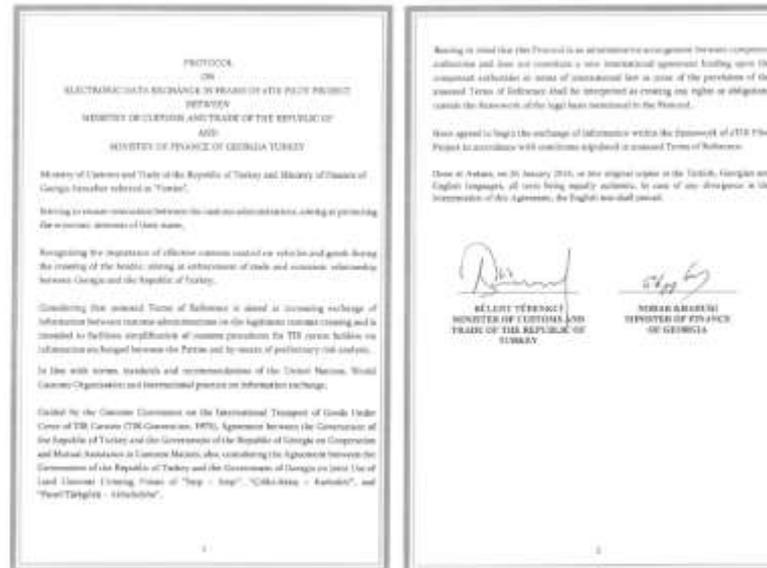


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The legal basis

Protocol on electronic data exchange in the framework of a joint eTIR Pilot Project, signed by Mr. Nodar Khaduri, **Minister of Finance** of Georgia, and Mr. Bülent Tüfenkci, **Minister of Customs and Trade** of the Republic of Turkey.

Annex: **ToR**



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Funding

To make the necessary amendments to the national IT system and connect to the CEP

- Georgia used national resources/staff and was provided with a technical assistance (TA) consultancy funded from the UNDA project 1213A
- Turkey used only national resources/staff

The UNDA project 1213A also funded the development of the CEP.

Maintenance of the CEP is taken care of by the TIR secretariat

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Central Exchange Platform (CEP)

The **CEP** is a secure and versatile **C2C electronic data exchange platform**

- Can exchange messages based on the **eTIR Reference Model** v.4.1a, **WCO data model** v.3.5 and more
- Takes into account the availability of **data** as well as national **procedures** (flexible)
- Hosted at the ICT data centre of the **UN Office** at Geneva and managed by UNECE TIR secretariat

Central Exchange Platform (CEP)

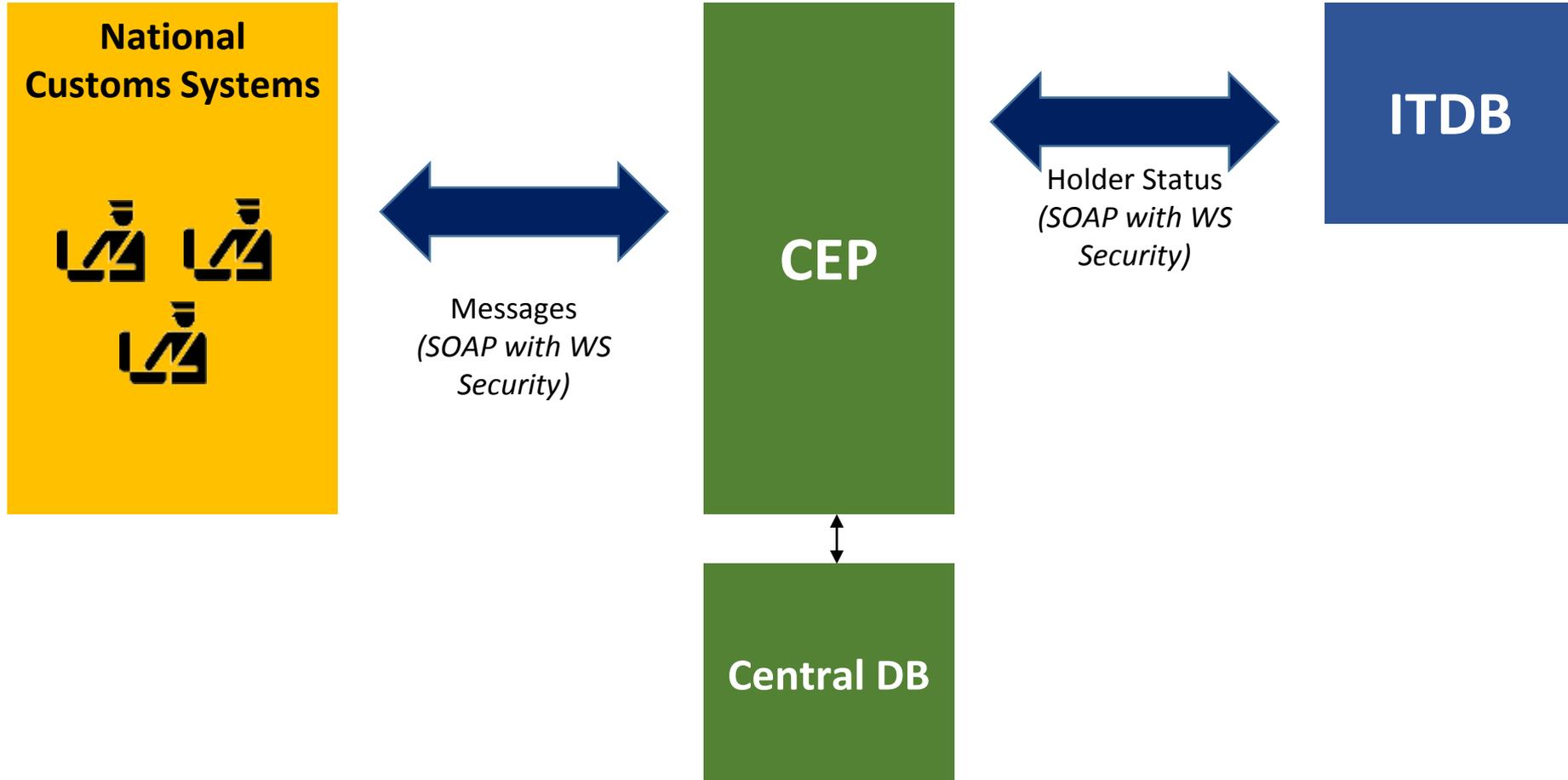
Implemented Messages

Six C2C messages are available (in accordance with requirements of the eTIR Reference Model v.4.1a)

1. I5 – I6: Query Guarantee
2. I7 - I8: Record Advance Cargo Information
3. I9 - I10: Start TIR Operation
4. I11 – I12: Terminate TIR Operation
5. I13 – I14: Discharge TIR Operation
6. I15 – I16: Notify Customs (push and pull)

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CEP - High Level Architecture



Central Exchange Platform (CEP)

Validation of Messages

- The guarantee reference links all the TIR transport information
- Only the guarantee reference and the structure of the messages are strictly validated
- Possibility to configure different validation rules for each type of incoming XML message
- Possibility to configure different validation rules for each agent (customs authority)
- New information can either be pushed from the CEP by or pulled and pull methods are also subject of configuration for each agent

Message validation rules are configured via special XML document called Message Descriptor. The flexible validation architecture of the CEP gives the possibility to extend a list of already available types of validations with any number of new types. This can be achieved without changing Message Descriptor format or validation architecture core.

Central Exchange Platform (CEP)

Security

- The messages transmitted between CEP and customs authorities are signed and encrypted to ensure messages integrity and confidentiality using Web Services Security (WS-Security, WSS) SOAP extension is used
- CEP and customs authorities have their own pair of public and private keys
- The public keys (certificates) are exchanged between customs administrations and the CEP and are used to verify the electronic signatures and to encrypt data to be sent to the other party

To maximally simplify agents integration process **WS-SecurityPolicy** specification is used to define WS-Security requirements, which are directly embedded into WSDL

Advantages for Georgia and Turkey

First step towards the technical integration of the eTIR international system before it is fully developed and implemented:

- Early adoption and use of **eTIR messages** based on the eTIR Reference Model (and tested by means of the exchange platform)
- **C2C communication channel** established via the exchange platform (improved cooperation between participating countries)
- An important step toward the integration of eTIR with **risk assessment procedures**.

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Status and next steps

- Currently the CEP is running on the UNECE **test environment**
- Both customs administrations send data about TIR operations to the CEP
- Georgia customs retrieves Turkish data from the CEP using a querying mechanism (**pull**)
- The web service developed by Turkish customs to receive data (**push**) from the CEP has been successfully tested and will shortly be deployed in the CEP
- Next step : Moving the CEP to the **production environment**

Thank you

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