HEAD OF THE CENTRAL CUSTOMS DIRECTORATE
FOR INFORMATION & TECHNOLOGY

VLADIMIR SKIBA

«VERIFICATION OF AN ELECTRONIC DOCUMENT IN THE eTIR INTERNATIONAL SYSTEM USING A TRUSTED THIRD PARTY»

Budapest, 19 September 2019
Declaration at the following Customs offices of departure

Budapest, 19 September 2019
Why do we need verification of the electronic document in the eTIR international system?

From the moment of acceptance of the declaration by the competent authorities and the transfer of the declaration data to the eTIR international system, it will constitute the legal equivalent of an accepted TIR Carnet.

The legal value of an electronic document is usually confirmed by an electronic digital signature (qualified electronic digital signature, electronic signature and etc.) in accordance with national law.

The legislation of countries related to electronic signature differs and does not provide a simple path to address the problem of exchanging documents with electronic signature between organizations of these states.

The competent authorities of Contracting Parties where TIR transport is carried out under the eTIR procedure may use information from eTIR international system as an evidence in national administrative or legal proceedings.
A Trusted Third Party (TTP) is an organisation or its agent that provides one or more security services, and is trusted by other entities with respect to activities related to these security services.

ITU-T Recommendation X.842

Trusted third party assumes the following tasks:

- verifies the authenticity of electronic documents
- provides guarantees of trust in the cross-border (international) exchange of electronic documents
- ensures the legitimacy of the use of electronic signatures in outgoing and (or) incoming electronic documents and messages in accordance with the rules and requirements of the law
Principles of transfer of eTIR with TTP

National Certification Authority Side 1

1. National Certification Authority Side 1
2. National Certification Authority Side 2
3. Foreign trade participants
4. Customs of departure country
5. TTP
6. Customs of import country

Budapest, 19 September 2019
Trusted Third Party technology 2

National customs № 1

TTP № 1

TTP № 2

National certificate authority № 1

National customs № 2

Budapest, 19 September 2019
Transparency of trust in the Eurasian Economic Union (EAEU)

EEE - Eurasian Economic Commission

Trusted Space
IIS of EAEU

Trusted Space
EEC

Trusted Space
Belarus

Trusted Space
Kyrgyzstan

Trusted Space
Armenia

Trusted Space
of Russia

Trusted Space
Kazakhstan

EEC - Eurasian Economic Commission

Competent authorities

Competent authorities

Competent authorities

Competent authorities

Competent authorities

Subsystems
IIS

TTP EEC

TTP

TTP

TTP

TTP

TTP

IIS - Integrated Information System

Budapest, 19 September 2019

www.customs.ru
Principles of transfer of electronic documents by the example of IIS EAEU
Implementation of cross-border exchange of electronic documents in collaboration G2G

National Sender Segment

Forms and signs documents

Verifies the signature of the sender

Sender

TTP of the sender

Sender's TTP receipt

Beneficiary National Segment

Checks the certifying evidence of the sender's TPA

TTP of the recipient

Recipient's TPA receipt

Recipient

Checks the receipt of TPA of the recipient

TTP of the sender

TTP of the recipient

Communication channels

Sender

Recipient

TTP of the sender

TTP of the recipient

Communication channels

Sender

Recipient

Budapest, 19 September 2019
Online interaction with TTP. Options for initiator interaction with TTP

- Document with sender's digital signature and receipt
- Document with sender's digital signature

The scheme uses the principles of XAdES / CAdES standards (the sender forms all the evidence)

The document acquires additional protection properties at the time of its release into circulation (time stamp, guarantee of certificate validity, etc.)

More simplified authentication is for the recipient

- Typical scheme used in many implementations of TTP
- No need to use containers to transfer electronic document with receipts
- No additional obligations are imposed on the sender in cross-border cooperation

Budapest, 19 September 2019
«VERIFICATION OF AN ELECTRONIC DOCUMENT IN THE ETIR INTERNATIONAL SYSTEM USING A TRUSTED THIRD PARTY»

Budapest, 18 - 19 September 2019