

DIGITALIZATION OF CUSTOMS ACTIVITY IN ROMANIA: AUTOMATED EXPORT SYSTEM

POPEANGĂ VASILE NICOLAE

UNIVERSITY LECTURER DOCTOR, UNIVERSITY „CONSTANTIN BRÂNCUȘI” TG-JIU

e-mail: alyn77ro@yahoo.com

Abstract

The digitalization of public administration is an objective necessity of the contemporary era. This has become a strategic objective at the level of the European Union, and implicitly, of the member states. In this context, Romania is carrying out an extensive process of implementation and modernization of the IT infrastructure at the level of public institutions. The customs administration is an active subject of this approach, developing multiple operational applications. We present in our study the “Automated Export System” (AES-RO). We aim to capture its content and functionalities, the ease of its operation by economic agents and to outline the effects generated on customs activity.

Keywords: customs authority, customs formalities, export, automated system, access, declarant

1. Introduction

Carrying out customs formalities involves the submission to the authorities of significant volumes of information and documents, data that must also be available to the European Commission and the customs administrations of the Member States. And for this reason Romania is obliged to develop, maintain and use electronic systems that allow, on the one hand, the automatic exchange of information, and on the other hand, to be able to store the respective data.

From a customs perspective, export is a regime under which goods that are the subject of international trade of the Union and are about to leave its territory can be placed [1]. To digitize this component of customs processes, our country has developed and implemented the “Automated Export System” (AES-RO).

2. Paper body

The automated export system is a system based on a computer application, called AES-RO, which ensures the electronic transmission of data, structured in accordance with agreed message standards [2].

To place goods under the export customs regime, the declarant (economic operator) or his customs representative, as well as the customs authorities, go through a series of procedural steps, including:

- preparation and submission of the export customs declaration;
- acceptance of the export customs declaration;
- risk analysis;
- control decision;
- carrying out the control;
- customs release.

To have access to this automated system, it is necessary to fulfill a prerequisite, namely that the declarant/representative be enrolled in the user management module (UMG) administered by the Romanian Customs Authority.

After holding this role, the declarant/representative initiates the export operation and connects to AES-RO by accessing the page <http://172.20.1.90:9500/aes/index.xhtml>, where the following interface is displayed:

The requested procedural steps are completed, namely the username and password are entered, the customs office/point through which the export operation is carried out is selected and the connection is requested, thus successfully accessing the application and displaying its menu:

By choosing the **Create/Modify declaration** option, the following interface opens to the user:

This level of the application offers the declarant a wider range of options, namely:

- ✓ search for declarations according to certain filters (in case there are already uploaded to the system and not finalized, to resume the customs clearance process);
- ✓ create the declaration;
- ✓ copy the declaration (useful function for those who perform repetitive operations, with the same types of goods and for whose declaration it is necessary to change only a small number of parameters);

- ✓ upload XML (a facility that allows the user to transfer a declaration completed on their own station to the application, offline).

To create the declaration, select the appropriate button and allow entry into the electronic declaration structure, displaying the following page:

Creare declaratie

LRN *

23	A	51	
----	---	----	--

Tipul declaratiei *

Selecteaza... ▼

Tipul declarației suplimentare *

Selecteaza... ▼

Biroul vamal de export *

ROBU1030

Punctul vamal

ROBU1030

Securitatea

Selecteaza... ▼

Urmatorul pas

Next, fill in the displayed fields with the data specific to the operation and proceed to the next step, the system displaying the interface below:

Creare declaratie

LRN *

23	A	51	TEST1
----	---	----	-------

Tipul declaratiei *

EX | Export or re-export of goods outside of the custom ▼

Tipul declarației suplimentare *

A | pentru o declarație vamală standard (în temeiul ar ▼

Biroul vamal de export *

ROBU1030

Punctul vamal

ROBU1030

Securitatea

0 | Not used for safety and security purposes ▼

Urmatorul pas

after which we arrive at the general form of the export customs declaration, which looks as follows:

Declaratie vamala

[Inapoi](#) Status document **Draft**

Segment general Nivel expediere Nivel articol Rezultate validare TARIC Nota de evaluare Mesaje cortex Cereri

Exportatorul-13 01 000 000

Numărul de identificare-13 01 017 000 *

Numele-13 01 016 000

Strada si numarul-13 01 018 019

Orașul-13 01 018 022

Codul postal-13 01 018 021

Tara-13 01 018 020

Tipul declaratiei - 11 01 000 000 *

EX | Export or re-export of goods outside of the custom

Tipul de declaratie suplimentara - 11 02 000 000 *

A | pentru o declaratie vamala standard (in temeiul ar

Securitatea - 11 07 000 000

0 | Not used for safety and security purposes

Indicatorul de imprejurare specifică-11 04 000 000

Selecteaza...

Total articole 1

Total colete 0

Biroul vamal de export - 17 02 000 000 *

ROBU1030

Punctul vamal

ROBU1030

Biroul vamal de prezentare- 17 09 000 000

Birou vamal de supraveghere- 17 10 000 000

Pentru regimuri speciale

Biroul vamal de iesire declarat - 17 01 000 000 *

LRN-12 09 000 000 *

23AS1TEST1

Data creării

11.09.2023 15:55

Declarantul- 13 05 000 000

Numărul de identificare-13 05 017 000 *

Numele-13 05 016 000

Strada si numarul-13 05 018 019

Orașul-13 05 018 022

Codul postal-13 05 018 021

Tara-13 05 018 020

Reprezentantul - 13 06 000 000

Numărul de identificare-13 06 017 000

Numele

Statutul - 13 06 030 000

Selecteaza...

Persoana de contact - 13 06 074 000

Numele-13 06 074 016

Numărul de telefon-13 06 074 075

Adresa de email-13 06 074 076

The declarant continues the logical scheme of entering the data requested by the structural components of the declaration and the system displays the following windows:

Declaratie vamala

[Inapoi](#) Status document **Draft**

Segment general Nivel expediere Nivel articol Rezultate validare TARIC Nota de evaluare Mesaje cortex Cereri

Documentul precedent-12 01 000 000

Nr. crt. Tipul-12 01 000 000

Numărul de referință-12 01 001 000

Nu s-au găsit înregistrări.

Mențiuni speciale-12 02 000 000

Nr. crt. Codul-12 02 000 000

Text-12 02 000 000

Nu s-au găsit înregistrări.

Document justificativ-12 03 000 000

Nr. crt. Tipul-12 03 000 000

Numărul de referință-12 03 001 000

Numele autoritatei emitente-12 03 010 000

Numărul de încheiere al articolului în document-12 03 013 000

Data de valabilitate-12 03 011 000

Nu s-au găsit înregistrări.

Referinta suplimentara-12 04 000 000

Nr. crt. Tipul-12 04 000 000

Numărul de referință-12 04 001 000

Nu s-au găsit înregistrări.

Numărul de referință/UCR-12 08 000 000

Antrepozit - 12 11 000 000

Nr. crt. Tipul-12 11 000 000

Selecteaza...

Identificatorul-12 11 015 000

Documentul de transport-12 05 000 000

Cheltuielile de transport-14 02 000 000

Transportatorul-13 12 000 000

Regimul- 11 09 000 000

Regimul solicitat- 11 09 001 000 *

Selecteaza...

Regimul anterior- 11 09 002 000 *

Selecteaza...

Regimul suplimentar- 11 10 000 000

Nr. crt. Procedura suplimentara

Nu s-au găsit înregistrări.

Documentul precedent- 12 01 000 000

Nr. crt. Tipul-12 01 000 000

Numărul de referință-12 01 001 000

Identificatorul articolului de marfuri-12 01 007 000

Tipul de colete-12 01 003 000

Numărul de colete-12 01 004 000

Unitatea de masura si calificativul-12 01 005 000

Cantitatea-12 01 006 000

Nu s-au găsit înregistrări.

Mențiuni speciale- 12 02 000 000

Nr. crt. Codul-12 02 000 000

Text-12 02 000 000

Nu s-au găsit înregistrări.

Referinta suplimentara- 12 04 000 000

Nr. crt. Tipul-12 04 000 000

Numărul de referință-12 04 001 000

Nu s-au găsit înregistrări.

Numărul de referință/UCR- 12 08 000 000

Declaratie vamala

[Inapoi](#) Status document **Draft**

Segment general Nivel expediere Nivel articol **Rezultate validare TARIC** Nota de evaluare Mesaje certex Cereri

Rezultate calcul TARIC

Cod marfa _____ Tară origine _____

Descriere marfa _____

Note de subsof marfa

Notă subsof	Descriere
Nu s-au găsit înregistrări.	

Erori/Avizmente

Nivel	Cod alertă	Descriere
Nu s-au găsit înregistrări.		

Informații

Măsurile TARIC aplicate

Cod _____ Acronim _____

Note de subsof aferente măsurii TARIC

Notă subsof	Descriere
-------------	-----------

Declaratie vamala

[Inapoi](#) Status document **Draft**

Segment general Nivel expediere Nivel articol Rezultate validare TARIC Nota de evaluare **Mesaje certex** Cereri

Nr.	Cod mesaj	Mesaj	Trimis	Data	Username	Tipul documentului	Numărul de identificare a documentului	QM [Indicator cantitate]	Marker pentru push	Rezultat rezervare	Cod raspuns	Descriere	Necesita intervenție
Nu s-au găsit înregistrări.													

Declaratie vamala

[Inapoi](#) Status document **Draft**

Segment general Nivel expediere Nivel articol Rezultate validare TARIC **Nota de evaluare** Mesaje certex Cereri

Segment general

Cuantumul total facturat _____ Masa brută _____

	Modul de repartizare pe articol	Valoare	Moneda	Schimb valutar	Valoare in RON	Text
Costul transportului efectuat de la locul de expediere pana la frontiera RO	Selecteaza...		Selecteaza...			
Costul de asigurare de la locul de expediere pana la frontiera RO	Selecteaza...		Selecteaza...			
Costul de transport efectuat dupa locul de scoatere a marfurilor de pe teritoriul RO	Selecteaza...		Selecteaza...			
Costul de asigurare efectuat dupa locul de scoatere a marfurilor de pe teritoriul RO	Selecteaza...		Selecteaza...			
Alte costuri care se adauga	Selecteaza...		Selecteaza...			
Alte costuri care se deduc	Selecteaza...		Selecteaza...			

[Executa](#)

Segmentul la nivel de articol

	Valoare	Moneda	Schimb valutar	Valoare in RON	Text
Valoare articol		Selecteaza...			
Costul transportului efectuat de la locul de expediere pana la frontiera RO		Selecteaza...			
Costul de asigurare de la locul de expediere pana la frontiera RO		Selecteaza...			
Costul de transport efectuat dupa locul de scoatere a marfurilor de pe teritoriul RO		Selecteaza...			
Costul de asigurare efectuat dupa locul de scoatere a marfurilor de pe teritoriul RO		Selecteaza...			
Alte costuri care se adauga		Selecteaza...			

After completing all the data and information requested in the sections presented above and after receiving automatic validation of the document, the declarant/representative electronically transmits the declaration to the export customs office, and the next procedural step, namely the acceptance of the declaration, is automatically performed by the application.

Risk analysis, a very important phase of the export operation, is carried out by the computer program, the basic rule of the process being that of eliminating the influence of the human factor. However, the incidental legislation allows the possibility of the intervention of the customs worker, who, based on the information and data held, respecting a certain working procedure, can carry out his own local risk analysis, without taking into account the result of the automatic one.

The automated export system provides the customs officer, after accepting the declaration, with the following information in relation to it:

Culoare														Exporta XLS
N	Data depunerii	MRN	Data acceptării	BV de export	BV de ieșire declarat	Tipul declarației	Tipul declarației suplimentare	Status	Tranzacția	Responsabil control	ROU exportator	Total articole	Total colete	Acțiune
26A13962660719 DOMENA	14.05.2026 14:07	26ROCR8810YMA952B8	14.05.2026 14:07	ROCR8810	ROCR7270	EX	A	Acceptat	Analiza de risc - no HIT		RO11935340	1	21	  
26A13962660718 DOMENA	14.05.2026 13:25	26ROCR88103SN951B3	14.05.2026 13:25	ROCR8810	ROCR7270	EX	A	Mărfuri eliberate pentru export	Acordarea liberului de vamă la export		RO11935340	1	20	  
26A13962660716 BOHOR	14.05.2026 11:09	26ROCR8810NXW950B1	14.05.2026 11:09	ROCR8810	ROCR7270	EX	A	Mărfuri eliberate pentru export	Introducere date SURV		RO11935340	1	18	  
26A13962660715 ABBAJ	14.05.2026 11:05	26ROCR8810N7J949B1	14.05.2026 11:05	ROCR8810	ROCR7270	EX	A	Mărfuri eliberate pentru export	Introducere date SURV		RO11935340	2	165	  
26A96410921701	14.05.2026 10:49	26ROCR8810LKL948B3	14.05.2026 10:49	ROCR8810	DE004851	EX	A	Mărfuri eliberate pentru export	Introducere date SURV		RO9641092	1	2	  

By accessing the declaration in the accepted status, the worker views the automatic result of the risk analysis, which can be:

✓ without control:

ALIS

Biroul vamal de export

Visualizare declaratii

Documente primite la control

Cereri de modificare

Cereri de invalidare

Erori DV SURV3

Cerere de status

Procedura de cercetare

Informatii de cercetare

Dreptul de a fi ascultat

Procedura alternativa

Control ulterior

Biroul vamal de prezentare

Biroul vamal de ieșire

Segment general Nivel expediere Nivel articol Nota de evaluare Rezultate validate TARIC **Analiza de risc și decizie de control** Mesaje context Cereri Istoric

Culoare de vamă propusă de componentele analizei de risc

Tipul analizei	Culoare propusă
Analiza de risc comunitară	verde
Profil de risc RO	verde
Prima vamă	verde
Selectie aleatoare	verde

Decizia de control

Pasi de urmat

Luarea deciziei de control

Aplicarea deciziilor Detalii analiza de risc

Decizie privind controlul *

☐ Control fizic ☐ Control documentar ☐ Fără control

✓ documentary control:

ALIS

Biroul vamal de export

Visualizare declaratii

Documente primite la control

Cereri de modificare

Cereri de invalidare

Erori DV SURV3

Cerere de status

Procedura de cercetare

Informatii de cercetare

Dreptul de a fi ascultat

Procedura alternativa

Control ulterior

Biroul vamal de prezentare

Biroul vamal de ieșire

Segment general Nivel expediere Nivel articol Nota de evaluare Rezultate validate TARIC **Analiza de risc și decizie de control** Inscriere rezultate control Mesaje context Cereri Istoric

Culoare de vamă propusă de componentele analizei de risc

Tipul analizei	Culoare propusă
Analiza de risc comunitară	verde
Profil de risc RO	verde
Prima vamă	verde
Selectie aleatoare	portocaliu
Decizia de control	portocaliu

Descriere White List

Detalii analiza de risc

Repartizare lucratori vamali

Repartizare lucrator control documentar

Data deciziei de control

11.05.2026 14:11

Decizie privind controlul *

☐ Control fizic ☒ Control documentar ☐ Fără control

Control ulterior

Tipul notificării *

0 | Decizie de control (și soluționare documente de)

Tipul deciziei de control

Nr.crt	Tipul	Descriere	Text
1	10	10 Documentary controls	

Documente cerute la control

Nr.crt	Tipul documentului cerut	Descriere
1	N380	N380 Commercial invoice
2	N271	N271 Packing list
3	N730	N730 Road consignment note

Timpul pentru primirea documentelor (Max. 30 zile)

11.05.2026 16:11

✓ physical control:

Stroul vamal de export

/Finalizare declaratii

Documente primite la control

Cereri de modificare

Cereri de invalidare

Tron DV SURV3

Cerere de status

Procedura de cercetare

Informati de cercetare

Deputul de a fi ascultat

utul de a fi ascultat pentru icarea de prezentare

Procedura alternativa

Control ulterior

Stroul vamal de prezentare

Analiza de risc și decizie de control

Segment general Nivel expediere Nivel articol Nota de evaluare Rezultate validare TARIC

Culoare de vamare propuse de componentele analizei de risc

Tipul analizei Culoare propus

Analiza de risc comunitara verde

Profil de risc RO verde

Prima vamare rosu

Selectie aleatoare verde

Decizia de control rosu

Data deciziei de control

13.05.2026 15:15

Decizie privind controlul *

☒ Control fizic ☐ Control documentar ☐ Fara control

☐ Control ulterior

Tipul notificarii *

0 | Decizie de control (si solicitare documente da)

Tipul deciziei de control

Nr. art	Tipul	Descriere	Text
1	10	10 Documentary controls	
2	40	40 Physical controls	

Documente cerute la control

Nr. art	Tipul documentului cerut	Descriere
1	N730	N730 Road consignment note
2	N380	N380 Commercial invoice
3	N271	N271 Packing list
4	C672	C672 Information document accompanying shipments of waste as m gulation (EC) No 1013/2006 (OJ L 180) – Article 18 and Annex VII

The export customs office informs the declarant about the result of the risk analysis and presents, if applicable, the control activities that will be carried out, as well as the additional documents that must be transmitted in the IT application:

AUTORITATEA VAMALA ROMANA

RO EN

ses-ROBU1030-ROBU1030

Declarant

Creare/Modificare declaratie

Documente cerute la control

Procedura de cercetare

Informati de cercetare

Administrare

Dev

Notificare de control

Segment general Sub control MRN: 23RO10301W089011A8

Data notificarii deciziei de control

14.09.2023 07:44

Tipul notificarii

0 - Decision to Control (and requested documents if needed)

Timpul pentru primirea documentelor

01.10.2023 07:44

Tipul deciziei de control

Nr. art	Tipul	Descriere	Text
1	10	Documentary controls	test

Documente cerute la control

Nr. art	Tipul documentului cerut	Descriere	Incarcare document	Note justificative
1	A001	Certificate of authenticity fresh 'EMPEROR' table grapes		
2	A010	Certificate of authenticity concentrated orange juice		

Salvare

After the documentary and/or physical check is carried out, its result is entered into the system and the declarant/representative is automatically notified:

Control documentar

Cod A1 | Satisfactor

Test: Conform documentelor anexe

Măsurile aplicate

Nr. art	Măsura aplicată	Descriere	Executat
1	10	10 Documentary controls, P.S.	

Documente indicate

Fișiere indicate

Nume fișier Descarcă

Nu s-au găsit fișiere.

Control fizic

Cod A1 | Satisfactor

Test: CONTROL FIZIC OBSERVARE

Măsurile aplicate

Nr. art	Măsura aplicată	Descriere	Executat
1	40	40 Physical controls, P.S.	

Documente indicate

Fișiere indicate

Nume fișier Descarcă

Nu s-au găsit fișiere.

If the result of the control is satisfactory, the electronic customs declaration automatically receives customs clearance and the goods depart for an exit customs office, through which they leave the territory of the European Union, thus completing the export operation.

3. Conclusions

Based on the above, the following conclusions can be drawn about the impact of digitalization on export customs activity::

- causes the almost complete elimination of interaction between exporters and state officials, thus reducing the possibilities of influencing processes;

- significantly reduces the processing times of the customs declaration, ensuring, consequently, a higher speed of the movement of goods;
- decreases the expenses related to the procedure, eliminating costs related to printing documents;
- by accepting the intervention of the customs worker only in exceptional and thoroughly justified cases at the risk analysis stage, it significantly reduces the possibilities of the risk being realized.

4. Bibliography

[1]. Regulation (EU) No. 952/2013 of the European Parliament and of the Council laying down the Union Customs Code

[2]. Order of the President of the Romanian Customs Authority No. 1.208/2025 approving the Technical Rules for the use of the Automated Export System, Article 2

3. AES User Manual, available on the website www.customs.ro

4. Commission Delegated Regulation (EU) 2015/2446 of 28 July 2015 supplementing Regulation (EU) No. 952/2013 of the European Parliament and of the Council with regard to detailed rules for certain provisions of the Union Customs Code

5. Commission Implementing Regulation (EU) 2015/2447 of 24 November 2015 laying down rules for the implementation of certain provisions of Regulation (EU) No. 952/2013 of the European Parliament and of the Council laying down the Union Customs Code