

	Application: NCTS				
Confidentiality Level:	Public	Document version:	1.0	Date:	05.05.2023.

# Technical specification of G2B service for NCTS-P5

## New Computerised Transit System - Phase 5



Projekt je sufinancirala Europska unija iz Europskog socijalnog fonda.

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1.1.	Added remark about UTC time in messages in the second chapter. Added chapter 2.3. Structure of LRN.	APIS IT	Service for ISCU	05.05.2023.

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**Validated by:**

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# 1. INTRODUCTION

## 1.1. Purpose of the document

NCTS (New Computerised Transit System) is an information system for conducting paperless transit procedure. Based on electronic messages exchange, it supports the continuous transit procedure of goods under customs supervision applied by customs administrations of EU members and EFTA countries, i.e. members of the Convention on the Common transit procedure.

For communication with the traders' systems, the standard G2B service is used which is a part of the common information system infrastructure of the Croatian Customs administration (IS CURH) in charge of IS CURH business integration with the trader's business applications on the principles of exchanging business messages. G2B service is technologically realized as a web service (SOAP/HTTPS) available over the Internet.

This document describes the specifics of G2B service related to the NCTS application in phase 5.

Technical specification of G2B service without details which refer to application-specific use (ex. NCTS, ECS, EMCS, ) is described in a separate document *Technical specification of G2B service*.

The figure below portrays the position of G2B service in the entire IS CU environment.

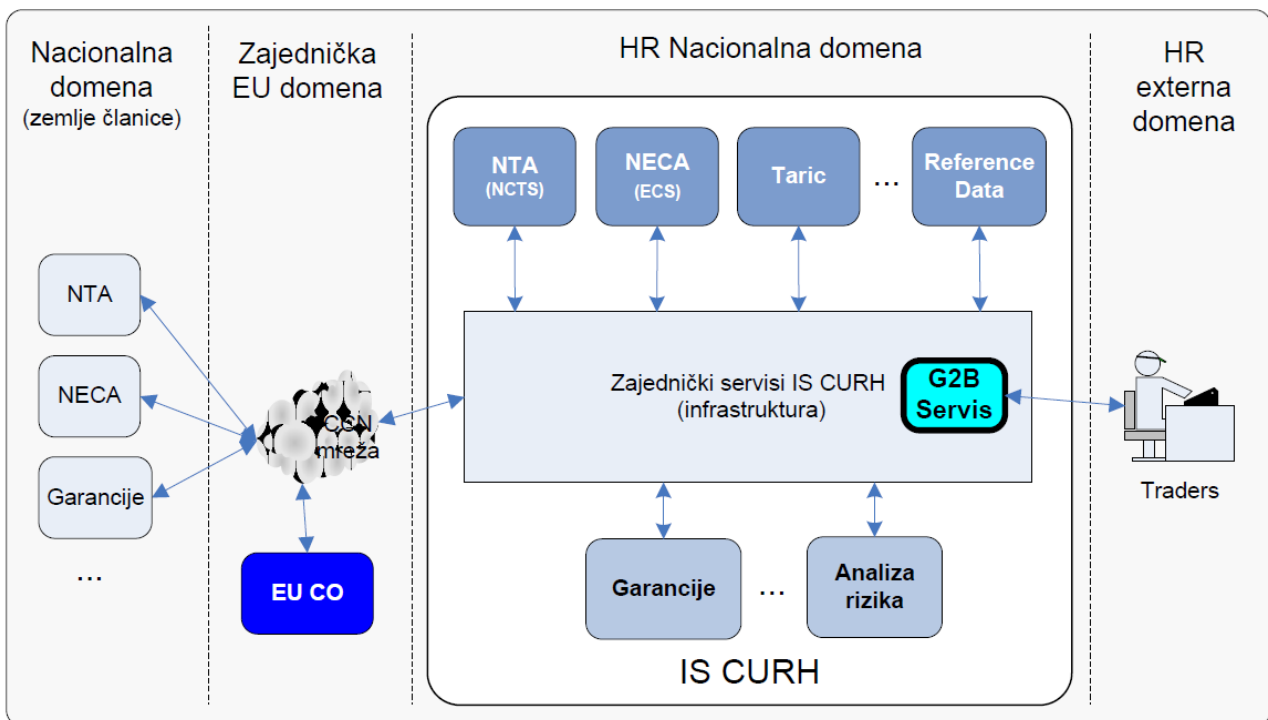




Figure 1: Architecture concept

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## 1.2. Index and abbreviations

TERM/ABBREVIATION	DESCRIPTION
NCTS	New Computerised Transit System
G2B SERVICE	The purpose of G2B service is the exchange of electronic documents between the trader and the Information system of the Customs Administration (IS CU).
IS CURH	Customs Administration IT System
SOAP	Communication protocol, independent of the platform, based on XML that is used for the exchange of information between the applications (Simple Object Access Protocol)
ECS	Export Control System
EMCS	Excise Movement and Control System

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## 2. SPECIFICS OF G2B SERVICE USAGE FOR NCTS APPLICATION

In this chapter trader's messages used in NCTS application are listed as well as G2B service operations with description of specifics related to NCTS application.


In messages, UTC time is entered in all fields related to date and time (an19).

### 2.1. List of NCTS business messages for transit declarations

Below is a list of business messages that are exchanged between traders' IT System and NCTS for processing of transit customs declarations.


<b>Incoming messages in communication with the trader</b>		
<b>No.</b>	<b>Message</b>	<b>Message description</b>
1.	CC013C-MSG.NCTS	Declaration amendment
2.	CC014C-MSG.NCTS	Declaration invalidation request
3.	CC015C-MSG.NCTS	Declaration data
4.	CC034C-MSG.NCTS	Query on guarantees
5.	CC054C-MSG.NCTS	Request of release
6.	CC170C-MSG.NCTS	Presentation notification for the pre-logged declaration
7.	CC007C-MSG.NCTS	Arrival notification
8.	CC044C-MSG.NCTS	Unloading remarks
9.	CC141C-MSG.NCTS	Information about non-arrived movement

<b>Outgoing messages in communication with the trader</b>		
<b>No.</b>	<b>Message</b>	<b>Message description</b>
1.	CC004C-MSG.NCTS	Amendment acceptance
2.	CC009C-MSG.NCTS	Invalidation decision
3.	CC019C-MSG.NCTS	Discrepancies
4.	CC022C-MSG.NCTS	Notification to amend declaration

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5.	CC028C-MSG.NCTS	MRN allocated
6.	CC029C-MSG.NCTS	Release for transit
7.	CC035C-MSG.NCTS	Recovery notification
8.	CC037C-MSG.NCTS	Response query on guarantees
9.	CC045C-MSG.NCTS	Write-off notification
10.	CC051C-MSG.NCTS	No release for transit
11.	CC055C-MSG.NCTS	Guarantee not valid
12.	CC056C-MSG.NCTS	Rejection from office of departure
13.	CC060C-MSG.NCTS	Control decision notification
14.	CC140C-MSG.NCTS	Request on non-arrived movement
15.	CC182C-MSG.NCTS	Forwarded incident notification to ED
16.	CC928C-MSG.NCTS	Positive acknowledge
17.	CC025C-MSG.NCTS	Goods release notification
18.	CC043C-MSG.NCTS	Unloading permission
19.	CC057C-MSG.NCTS	Rejection from office of destination
20.	CC906C-MSG.NCTS	Functional nack
21.	CC917C-MSG.NCTS	xml nack




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## 2.2. List of G2B service operations

In the tables below the operations of G2B service together with the list of request and response attributes are listed.


Operation name	Request	Response
<i>sendDocument</i>	SendDocument B2GDocument (version*) RequestHeader (Id) AppId TraderId DelegatorId* TraderAppId TraderMsgId Content (Id) DocType MimeType Description Data (Encoding) Signature	SendDocumentResponse B2GDocument (version*) RequestHeader (Id) AppId TraderId DelegatorId* TraderAppId TraderMsgId ResponseHeader (Id) DocUuid ReceiveTimestamp Content (Id) DocType MimeType Description Data (Encoding) Signature
<i>getSentDocument</i>	GetSentDocument AppId TraderId TraderAppId  DocUuid  TraderMsgId	GetSentDocumentResponse B2GDocument (version*) RequestHeader (Id) AppId TraderId DelegatorId* TraderAppId TraderMsgId ResponseHeader (Id) DocUuid ReceiveTimestamp Content (Id) DocType MimeType Description Data (Encoding) Signature

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Operation name	Request	Response
<i>ListSentDocuments</i>	ListSentDocuments AppId TraderId TraderAppId CorId	ListSentDocumentsResponse AppId TraderId TraderAppId SentDocumentsList[] DocUuid TraderMsgId Description CorId DocType ReceiveTimestamp
<i>ListMsgBox</i>	ListMsgBox AppId TraderId TraderAppId CorId* AckStatus* DateFrom* DateUntil*	ListMsgBoxResponse AppId TraderId TraderAppId MsgList[] DocUuid CorId DocType ReceiveTimestamp
<i>getDocument</i>	GetDocument AppId TraderId TraderAppId DocUuid	GetDocumentResponse B2GDocument (version*) RequestHeader (Id) AppId TraderId DelegatorId* TraderAppId DocUuid Content (Id) DocType MimeType Data (Encoding) Signature
<i>acknowledge</i>	Acknowledge AppId TraderId TraderAppId DocUuid[]	AcknowledgeResponse AppId TraderId TraderAppId DocUuid[] AcknowledgeTimestamp
<i>echo</i>	Echo Msg	EchoResponse Msg SeverTime

\* optional elements or attributes; [] marker for the list of attributes; () marker for attributes

Table 1: G2B Service Operations



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In the tables below specifics of completing/filling request and response attributes are listed.

<b>Attribute Request</b>	<b>Method of filling</b>
RequestHeader.ApplId	'NTA.HR'
RequestHeader.TraderID	Trader identification number of the trader that sends the message
Content.DocType	ID of the business message that the trader sends (corresponds to the root element of the matching message, ex. CC015C-MSG.NCTS)  Allowed types are: CC007C-MSG.NCTS, CC013C-MSG.NCTS, CC014C-MSG.NCTS, CC015C-MSG.NCTS, CC034C-MSG.NCTS, CC044C-MSG.NCTS, CC054C-MSG.NCTS, CC141C-MSG.NCTS, CC170C-MSG.NCTS,
Content. MimeType	'text/xml' (IE message that the trader sends to NCTS is always in xml format)
Content.Data	IE message content (it must fulfil XSD of the message listed under DocType)
CorId	DocUuid in accordance with the definition of the correlation identifier mentioned below.
Encoding	'EMBEDDED' (IE message that the trader sends to NCTS is always in xml format)
Signature	Electronic signature in accordance with the document 'Rules of using the system of electronic exchange of data and providing service of electronic business of the Ministry of Finance, Customs Administration (e-Customs)'.


*Table 2: Specific of completing request attributes/attributes request*

Other attributes are filled in the standard way described in the document *Technical specification of G2B service*.

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#### Defining the correlation identifier in NCTS:

- The customs system assigns a unique /single DocUuid to every document received in the customs systems or sent from it.
- The customs system assigns a unique /single DocUuid to every IE message that the trader sent and forwards it to the trader/trader's system.
- Every document that the trader receives from the customs system, besides DocUuid, also contains CorId.
- In the NCTS application, the filling out of CorID differs depending on whether the trader receives the error message (IE056 or IE057) or not.  
In case of error message, CorId is filled with DocUuid of the trader's message to which the error is related.  
Otherwise CorId is filled with DocUuid of the last correct (the one for which the error message IE056 or IE057 was not sent) trader's message for that movement.

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The image below is a graphic example of using the correlation identifier.

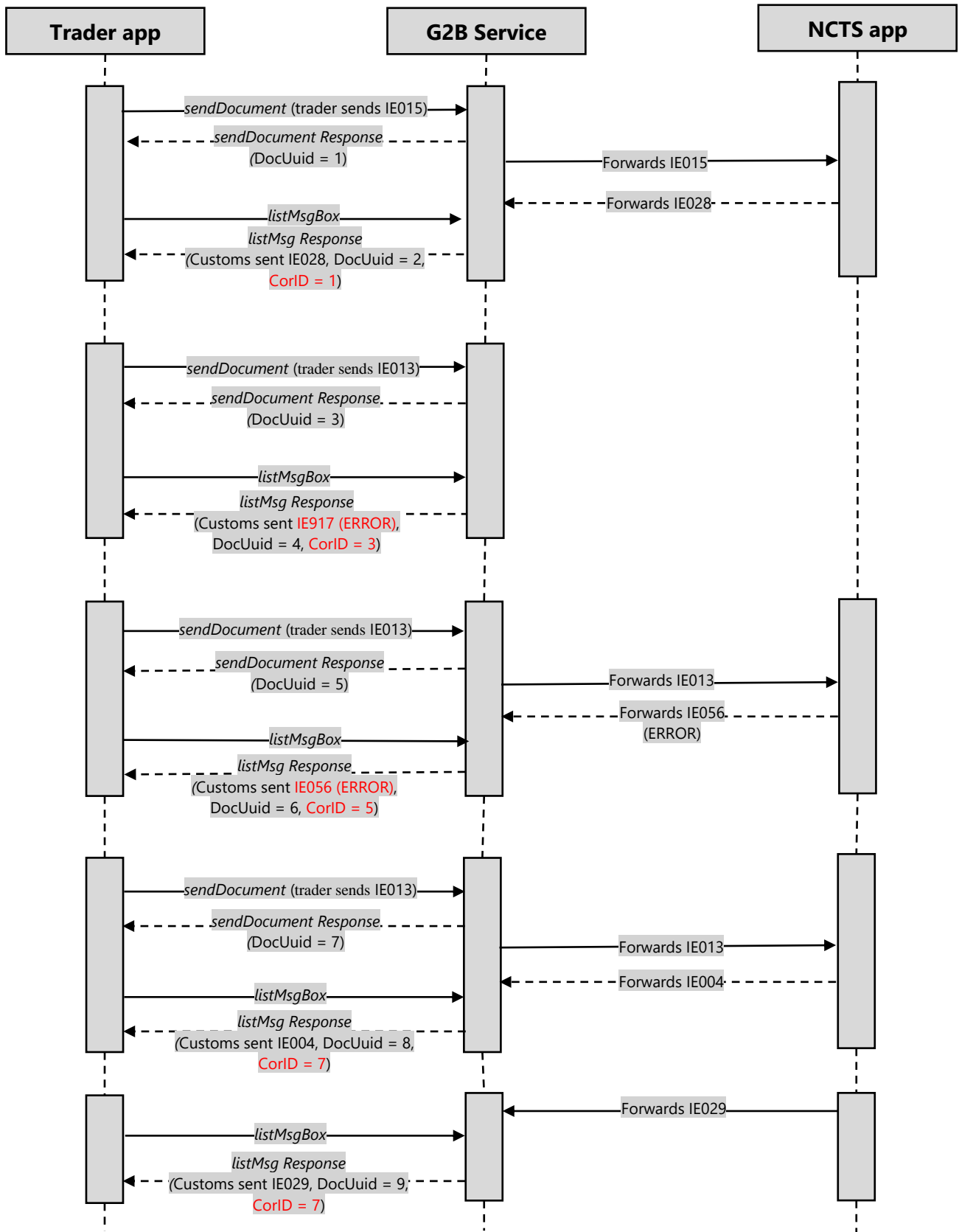



Figure 2: Example of using correlation identifier


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Attributes Response	Description
RequestHeader.Appld	'NTA.HR'
RequestHeader.TraderID	Trader identification number of the trader that sends the message)
Content.DocType	ID of the document that the trader receives. In case of IE message, corresponds to the root element of the matching message eg. CC028C-MSG.NCTS. Allowed types are: CC004C-MSG.NCTS, CC009C-MSG.NCTS, CC019C-MSG.NCTS, CC022C-MSG.NCTS, CC025C-MSG.NCTS, CC028C-MSG.NCTS, CC029C-MSG.NCTS, CC035C-MSG.NCTS, CC037C-MSG.NCTS, CC043C-MSG.NCTS, CC045C-MSG.NCTS, CC051C-MSG.NCTS, CC055C-MSG.NCTS, CC056C-MSG.NCTS, CC057C-MSG.NCTS, CC060C-MSG.NCTS, CC140C-MSG.NCTS, CC182C-MSG.NCTS, CC906C-MSG.NCTS, CC917C-MSG.NCTS, CC928C-MSG.NCTS (always in xml format). In case of the accompanying document, the allowed type is DM101C-MSG.NCTS (in pdf format).
Content. Mime Type	'text/xml' or 'application/pdf' In case of IE message, 'text/xml'. In case of the accompanying document, 'application/pdf'.
Content. Data	Content of the document In case of IE message it must fulfil XSD of the message listed under DocType.
Corld	DocUuid in accordance with the mentioned definition of the correlation identifier
Encoding	'EMBEDDED' (in case of IE message) or 'BASE64' (in case of the accompanying document in pdf format)
Signature	Electronic signature in accordance with the document 'Rules of using the system of electronic exchange of data and providing service of electronic business of the Ministry of Finance, Customs Administration (e-Customs)*.'

\* messages that the customs system sends to the trader are signed by G2B service

*Table 3: Specific of completing response attributes/ attributes response*

Other attributes are filled in the standard way described in the document *Technical specification of G2B service*.

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### 2.3. LRN Structure

The Local Reference Number (LRN) data is the identifier of the movement until the assignment of the MRN.

LRN:

- it has to be unique,
- it must have length and structure of an22 (leading zeros in its segments, if needed),
- must not already exist in the application and
- must satisfy the structure from the table:

If the first two characters of the sender of the message in the G2B system (data *ZIISC\_Sender* in the associated ZIISC envelope) are equal to the country code 'HR' or are numeric,

Field	Content	Field type	Example
1	OIB personal identification number (it is read from the ZIISC envelope) of a trader who submits a declaration to the system	n11	03017100000
2	The last two digits of the current year	n2	23
3	Counter within the current year, 9 digits with leading zeros	n9	000000001

If the first two characters of the sender of the message in the G2B system (data *ZIISC\_Sender* in the associated ZIISC envelope) are different from the country code 'HR' or are not numeric,

Field	Content	Field type	Example
1	The last two digits of the current year	n2	23
2	EORI number (it is read from the ZIISC envelope) of a trader who submits a declaration to the system	an5..17	DE123 DE123456789012345 ATEOS123456789 HRBA1234567890
3	Counter within the current year, alphanumeric (lowercase and uppercase characters of the English alphabet or digits of the decimal number system)	an3..15	abc; ab1; ab12345678901