



**National Import Control Application
ICS - Phase 1**

NPIS IT d.o.o.

**G2B Service Technical Specification for ICS
Version 1.0**

National Import Control Application (ICS – phase 1)	Version: 1.0
G2B Service Technical Specification for ICS	Date: 18/07/2012

Changelog

Edi.	Rev.	Date	Description
0	9	18/06/2012	Initial version
1	0	18/07/2012	Final version

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1. Introduction

ICS (Import Control System) is a computer based import procedure which functions as a tool for the import system management and control. ICS introduces paperless work environment, based on a developed system of interchange of electronic messages with NICA (National Import Control Application) systems of other EU countries and the trader system.

Standard G2B service is used for communication with trader systems, which is a part of a joint infrastructure of the Information System of the Customs Administration (IS CA) for business integration of IS CA with trader business applications on principles of business message exchange. G2B service has been technologically realised as a web service (SOAP/HTTPS) available on the Internet.

This document describes specifics of G2B service related to the ICS application.

G2B Technical Specification, without the details which refer to specific use by applications (e.g. NCTS, ICS, ECS, EMCS etc.), has been described in a separate document entitled *G2B service Technical Specification*.

The figure below shows the position of G2B service in IS CA environment

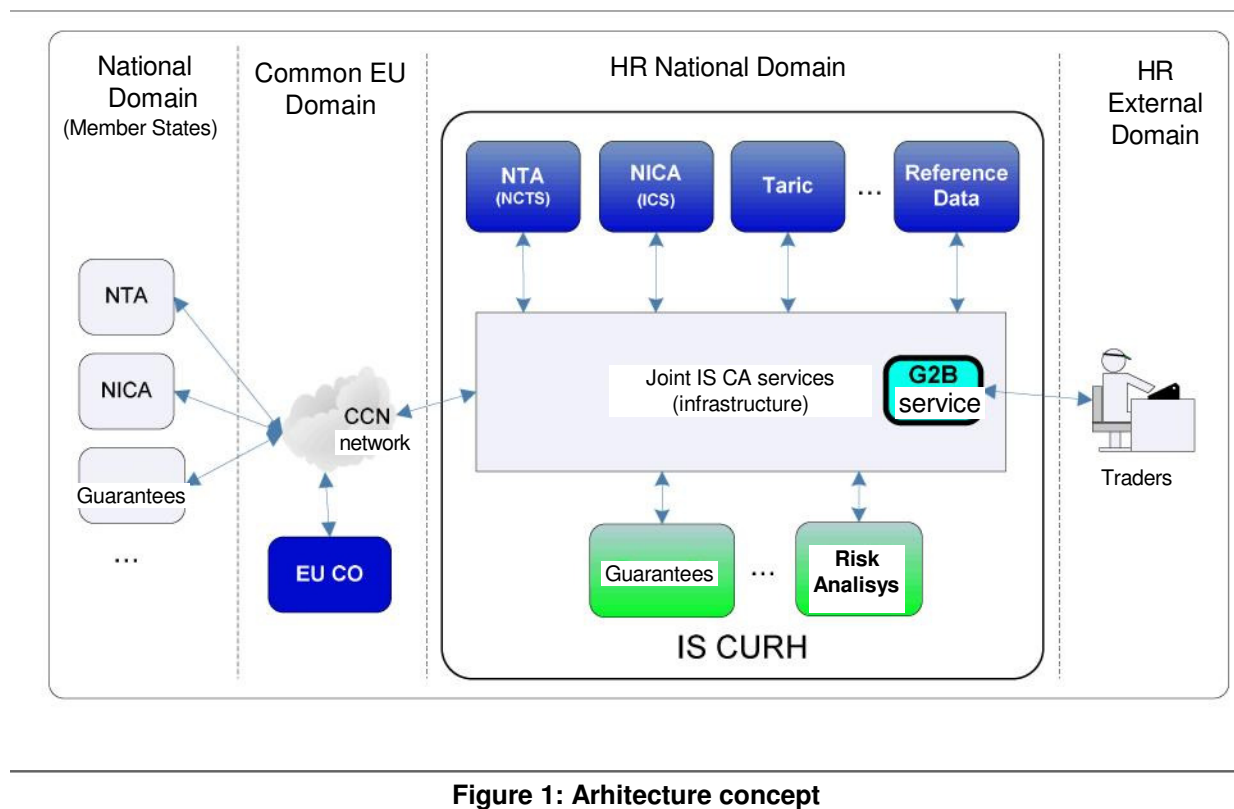


Figure 1: Arhitecture concept

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2. Specific use of G2B service for ICS application

G2B Technical Specification, without the details which refer to specific use by applications (e.g. NCTS, ICS, ECS, EMCS etc.), is described in a separate document entitled *G2B service Technical Specification*.

This chapter, along with the list of G2B service operations, describes the specifics of ICS application.

2.1. List of G2B service operations

The table below lists G2B service operations with the description of request and response attributes.

Name of operation	Request	Response
<i>sendDocument</i>	SendDocument B2GDocument RequestHeader AppId TraderId TraderAppId TraderMsgId Content DocType MimeType Description Data Encoding Signature	SendDocumentResponse B2GDocument RequestHeader AppId TraderId TraderAppId TraderMsgId ResponseHeader DocUuid ReceiveTimestamp Content DocType MimeType Description Data Encoding Signature

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Operation	Request	Response
<i>getSentDocument</i>	GetSentDocument AppId TraderId TraderAppId TraderMsgId IDocUuid	GetSentDocumentResponse B2GDocument RequestHeader AppId TraderId TraderAppId TraderMsgId ResponseHeader DocUuid ReceiveTimestamp Content DocType MimeType Description Data Encoding Signature
<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*	ListMsgBoxResponse AppId TraderId TraderAppId MsgList[] DocUuid CorId DocType DocTimestamp

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Operation	Request	Response
<i>getDocument</i>	GetDocument AppId TraderId TraderAppId DocUuid	GetDocumentResponse B2GDocument RequestHeader AppId TraderId TraderAppId DocUuid Content 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
Table 1: G2B Service Operations		

* optional attributes; [] marks the list of attributes

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3. The tables below list specifics of loading request and response attributes.

Request Attributes	Loading method
RequestHeader.AppId	'NICA.HR'
RequestHeader.TraderID	OIB (for domestic traders) or EORI identification number (for foreign traders) of the company sending the message
Content.DocType	ID of the business message sent by the trader (corresponds to the root element of the relevant message, e.g. CC315A-MSG.ICS) The allowed types are: CC313A-MSG.ICS, CC315A-MSG.ICS, CC323A-MSG.ICS, CC344A-MSG.ICS, CC347A-MSG.ICS.
Content. MimeType	'text/xml' (IE message sent by the trader in ICS is always in XML format)
Content.Data	IE message content (it has to correspond to XSD messages listed under DocType)
CorId	DocUuid corresponding to the below definition of correlational identifier
Encoding	'EMBEDDED' (IE message sent by the trader in ICS is always in XML format)
Signature	Electronic signature according to the document 'ICS INSTRUCTIONS FOR TRADERS'

Other attributes are loaded in a standard way described in the document entitled *G2B Technical Specification*.

Defining correlation identifier in ICS-u:

- Each document received in or sent from the customs system is assigned a unique DocUuid.
- Each IE message sent by the trader is assigned a unique DocUuid and sent to the trader system.
- Each document received by the trader from the customs system, except DocUuid, contains CorId.
- In the ICS application, loading CorIds differs depending on whether the trader receives an error message (IE917 or IE906) or not.
In case of the error message, CorId is loaded with DocUuid of the trader's message for which the error is reported.
Normally, CorId is loaded with DocUuid of the last correct (the one for which no IE917 or IE906 error message was sent) trader's message for a particular shipment.

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The Figure below shows an example of how to use a correlation identifier.

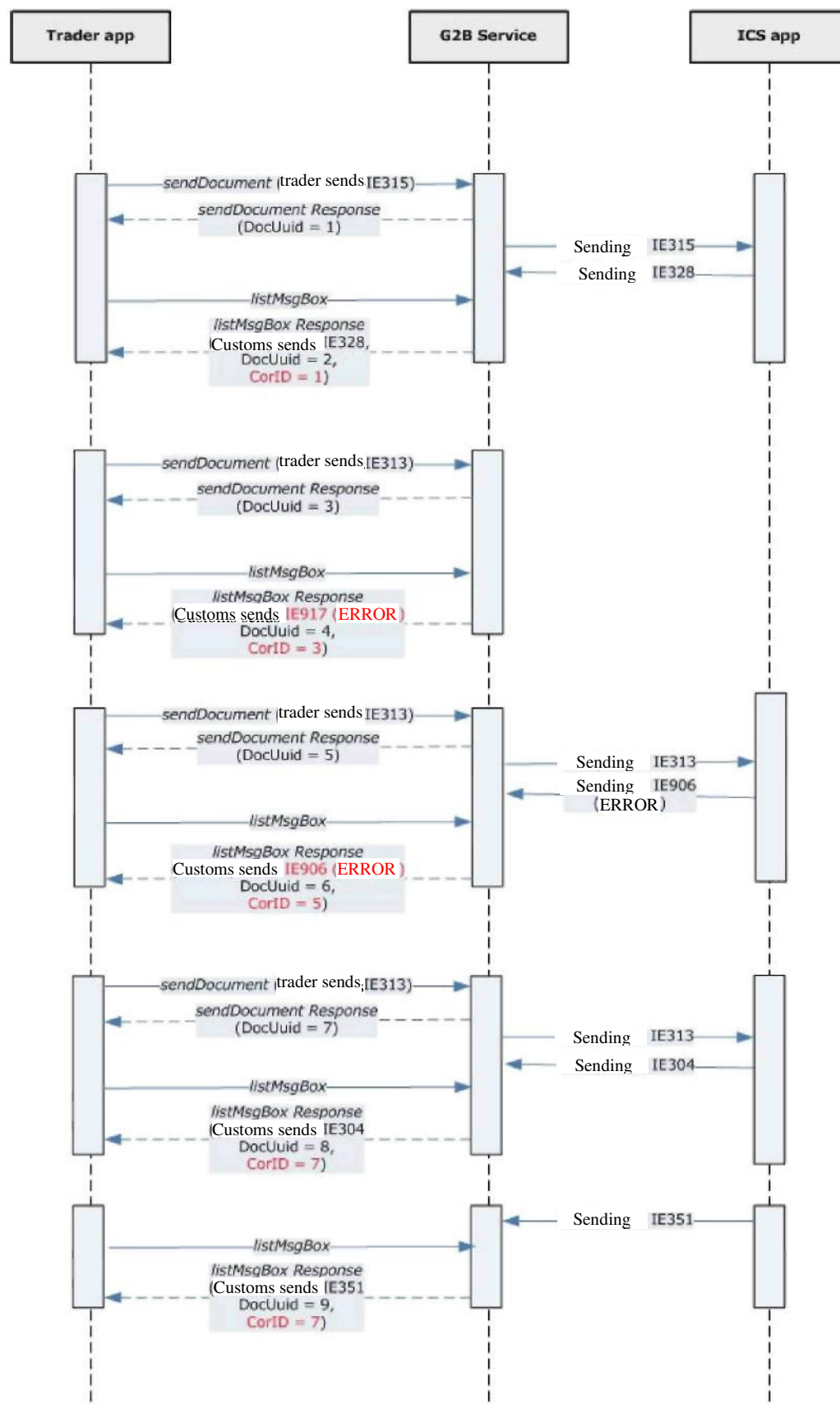


Figure 2: Example of how to use a correlation identifier

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Response Attributes	Description
RequestHeader.AppId	‘NICA.HR’
RequestHeader.TraderID	OIB (for domestic traders) or EORI identification number (for foreign traders) of the company sending the message
Content.DocType	<p>ID of the document received by the trader.</p> <p>In case of an IE message, it corresponds to the root element of the relevant message, e.g. CC328A-MSG.ICS.</p> <p>The allowed types are:</p> <p>CC304A-MSG.ICS, CC305A-MSG.ICS, CC316A-MSG.ICS, CC322A-MSG.ICS, CC324A-MSG.ICS, CC325A-MSG.ICS, CC328A-MSG.ICS, CC330A-MSG.ICS CC351A-MSG.ICS, CC345A-MSG.ICS, CC346A-MSG.ICS, CC348A-MSG.ICS, CC349A-MSG.ICS, CC906B-MSG.ICS</p> <p>(always in xml format).</p>
Content. MimeType	‘text/xml’
Content.Data	document content (it has to correspond to XSD messages listed under DocType)
CorId	DocUuid in conformity with the mentioned correlation identifier definition
Encoding	‘EMBEDDED’
Signature	Electronic signature according to the document ”ICS INSTRUCTIONS FOR TRADERS”*

* messages sent to the trader by the customs system are signed by G2B service

Other attributes have been loaded in a standard way as described in the document entitled *G2B Technical Specification*.