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SOA Service Specification Document

HTI eu_ics2_c2t - ICS2 STI

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¹ Action: I=Insert R=Replace

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1 INTRODUCTION

1.1 DOCUMENT PURPOSE

This service specification document is used to document the details of the data and functionality provided by the EO Systems (service providers) to the Trader Interface (service consumer). It gives the service consumers information such as the service contract or orchestration logic. It gives service providers the information necessary for implementing the service in a consistent and interoperable way.

The present document describes the 'eu_ics2_c2t' service where "c2t" stands for "Customs to Trader". As defined in the Interface Control Document [R03], this specific service is not exposed as a web service as understood in the context of the TATAFng guidelines as a SOAP web service but as a service implemented in the business to business protocol defined by the eDelivery AS4 specifications (an open standard for the secure and payload-agnostic exchange of Business-to-business documents using under the hood SOAP web services). It must be read in that context, deviating from the standard content of the service specification document describing a SOAP web service as such. It offers actions covering the communication from the Trader Interface application to the Economic Operator system for the following business processes:

1. L4-ICS2-01 Register filing;
2. L4-ICS2-02-01 Relate ENS filings;
3. L4-ICS2-03 Perform risk analysis;
4. L4-ICS2-03-01 Send referral;
5. L4-ICS2-04 Process arrival of means of transport;
6. L4-ICS2-06-01 Handle AEO notification;
7. L4-ICS2-07 Amend ENS filing;
8. L4-ICS2-08 Invalidate filing;
9. L4-ICS2-13 Consult ENS.

These business processes are described in the related L4 BPM specifications [R01].

1.2 TARGET AUDIENCE

This document is addressed to the teams responsible for the service consumer applications which are, in this case, the Shared Trader Interface (STI).

It is also addressed to parties involved on the service provider side (EO systems) such as the development team, enabling a solution designer to determine the capabilities and characteristics of the service, matching both functional and non-functional requirements.

The target audience for this document includes:

- DG TAXUD project team;
- Contractors of DG TAXUD involved:
 - SOFTDEV (Development contractor);
 - ITSM3 INT (Integration contractor);

- ITSM3 OPS (Operations contractor);
- ITSM3 TES (TES contractor);
- MS Implementing NTI;
- EO integrating system to system with STI or an NTI.

1.3 SCOPE

This document includes the specifications of the ICS2 eu_ics2_c2t service and the capabilities realised by its actions. This service is devoted to the reception of notification messages by the EO systems from Shared Trader Interface (STI).

The invocation of an action of this service is the result of the execution of the corresponding tasks of the ENS Filling Lifecycle business process. These tasks and the related business rules are described in detail in the related L4 BPM [R01] and the Business Rules document [R04].

For each action offered by this service, this document provides:

- Enumeration of the business process steps implying the action invocation;
- Post-conditions describing the possible outcomes of the service action.

This document provides a functional description of the service actions. The technical implementation of these actions is out of scope.

1.4 STRUCTURE

This document is organised as follows:

- **Chapter 1 – Introduction:** describes the scope and the objectives of the document;
- **Chapter 2 – Service description:** provides general information, classification and a list of consumers for the current service;
- **Chapter 3 – Service Contract:** provides all the service operations and the usage terms;
- **Chapter 4 – Service Orchestration Logic:** provides the orchestration logic for each service operation;
- **Annex: Supported Actions per STI Release:** provides supported operations by the service for each release.

1.5 REFERENCE DOCUMENTS

The table below lists the documents that are referred to in the current document.

Ref.	Title	Reference	Version	Date
R01	ICS2 Business Process Description	ICS2-CFSS-BPML4 Process	1.16	30/07/2021
		Description	2.00 ¹	30/07/2021
R02	Technical Service Contract Document	CD3-ICS2-STI-TSC	N/A	20/07/2021
R03	ICS2 HTI Interface Control Document	CD3-ICS2-HTI-ICD	3.10	22/12/2021

¹ In case 2 versions are shown, they are applicable for release 1 and release 2/3 respectively.

Ref.	Title	Reference	Version	Date
R04	ICS2-Business Rules Dictionary	ICS2-Business Rules Dictionary	2.0.0	30/07/2021
R05	ICS2 Architecture Overview	CD3-ICS2-AO	3.20	17/11/2021

Table 1: Reference documents

1.6 APPLICABLE DOCUMENTS

The table below lists the documents to which the current document must be compliant (e.g. FWC, SC, RfA).

Ref.	Title	Reference	Version	Date
A01	SOFT-DEV Framework Contract	TAXUD/2021/CC/162	N/A	24/06/2021
A02	Specific Contract 01	TAXUD/2021/DE/173	N/A	07/09/2021
A03	CUST-DEV3 Framework Quality Plan	CD3-FQP	1.00	30/04/2015

Table 2: Applicable documents

1.7 ABBREVIATIONS & ACRONYMS

For a better understanding of the present document, the following table provides a list of the principal abbreviations and acronyms used. See also the 'list of acronyms' on TEMPO.

Abbreviation/Acronym	Definition
AEO	Authorised Economic Operator
AEOS	Authorised Economic Operator – Security and Safety
AS4	Applicability Statement 4
BAS	Business Activity Service
BPM	Business Process Model
C2T	Customs to Trader
CR	Common Repository
CUST-DEV3	Customs Development Contractor 3
DG TAXUD	Directorate General for Taxation and Customs Union
DNL	Do Not Load
EC	European Commission
ENS	Entry Summary Declaration
EO	Economic Operator
EU	European Union
HRCM	High Risk Cargo and Mail
ICS2	Import Control System 2
L4	Level 4
MEP	Message Exchange Pattern
MRN	Master Reference Number
MS	Member State
NTI	National Trader Interface
SOAP	Simple Object Access Protocol
SOFTDEV	Development, Maintenance and Support of Customs and Taxation Information Systems
SSD	Service Specification Document
STI	Shared Trader Interface

Abbreviation/Acronym	Definition
TATAFng	Tariff Application Technical Architecture and Framework new generation
TI	Trader Interface

Table 3: Abbreviations and acronyms

1.8 DEFINITIONS

For a better understanding of the present document, the following table provides a list of the principal terms used.

See also the ‘glossary’ on TEMPO.

Term	Definition
Business Activity Service	Business activity services represent atomic business activities. They might represent simple activities like calculations as well as integration logic.

Table 4: Definitions

2 SERVICE DESCRIPTION

2.1 SERVICE INFORMATION

Service attributes	Values
ID	<i>ICS2_EON_BAS</i>
Name	<i>eu_ics2_c2t</i>
Description	<p><i>The present document describes the ‘eu_ics2_c2t’ service where “c2t” stands for “Customs to Trader”. As defined in the Interface Control Document [R03], this specific service is not exposed as a web service but as a service implemented in the business to business protocol defined by the eDelivery AS4 specifications.</i></p> <p><i>The eu_ics2_c2t service is responsible for providing functionalities related to the reception of information from ICS2 Trader Interface by an Economic Operator in the form of Information Exchange messages.</i></p> <p><i>The service interface is based upon the One-Way Message Exchange Pattern (MEP) and will be exposed as services implemented in the business to business protocol defined by the eDelivery AS4 specifications [R03]. As defined in the AS4 specifications, signal messages are provided as synchronous responses to action invocation for:</i></p> <ul style="list-style-type: none"><i>• acknowledgement of successfully processed message;</i><i>• processing error.</i> <p><i>However, no synchronous output is defined as business responses for the service actions.</i></p>
Type	<i>Business Activity Service</i>
Version	<i>1.00</i>
Status	<i>Planned</i>
Owner	<i>DG TAXUD</i>
Date on Production	<i>N/A</i>

Table 5: Service information

3 SERVICE CONTRACT

3.1 SERVICE INTERFACE SPECIFICATION

As defined in the HTI Interface Control Document [R03], One-Way/Push as well as One-Way/Pull Message Exchange Pattern can be used. Consequently, the EO systems opting for One-Way/Push MEP must implement this service and provide the actions described in the following sections.

3.1.1 IE3R01

Action Attributes	Values
Name	<i>IE3R01</i>
Description	<p><i>Realised BPM: L4-ICS2-01 – Register filing.</i></p> <p><i>Triggering Task/Event: T-01-04 - Notify successful registration and MRN to Person filing and T-01-05 - Notify successful registration and MRN to Carrier.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing is notified about the successful registration of the ENS Filing and the corresponding MRN. Furthermore, the Carrier is potentially notified about the successful registration of the ENS Filing and the corresponding MRN.</i></p>
Pre-conditions	<p><i>The MRN has been assigned and the registration has been performed successfully in the Common Repository.</i></p> <p><i>An ENS Acceptance Response has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i></p>
Payloads	<p><i>This action receives the message IE3R01 as payload.</i></p> <p><i>Details on the message are available in the Technical Service Contract Document [R02].</i></p>
Post-conditions	<p><i>Upon successful execution of this service action, an ENS Registration Response has been received by the EO system of the Person Filing and (potentially) the EO system of the Carrier.</i></p>

Table 6: Specification of IE3R01

3.1.2 IE3N01

Action Attributes	Values
Name	<i>IE3N01</i>
Description	<p><i>Realised BPMs: L4-ICS2-01 Register filing, L4-ICS2-07 Amend ENS filing, L4-ICS2-08 Invalidate filing.</i></p> <p><i>Triggering Task/Event: T-01-09 - Notify ENS lifecycle validation error, T-07-05 Notify ENS lifecycle validation error and T-08-04 - Notify ENS lifecycle validation error tasks respectively.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing is notified about the ENS lifecycle validation error.</i></p>

Action Attributes	Values
Pre-conditions	<i>An ENS Lifecycle Validation Error Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N01 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an ENS Lifecycle Validation Error Notification has been received by the EO system.</i>

Table 7: Specification of IE3N01

3.1.3 IE3N99

Action Attributes	Values
Name	<i>IE3N99</i>
Description	<p>Realised BPM: <i>L4-ICS2-01 – Register filing, L4-ICS2-07 Amend ENS filing, L4-ICS2-08 Invalidate filing and L4-ICS2-04 Process arrival of means of transport processes.</i></p> <p>Triggering Task/Event: <i>T-01-06 - Notify Error, T-07-04 - Notify Error, T-07-14 – Notify Error, T-08-02 - Notify error in invalidation of ENS filing and T 04-02 - Notify Error respectively.</i></p> <p>Other cases related to BRs: <i>E-03-01-08-BR01, T-03-01-11-BR01, T-13-03-BR01.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing is notified about an error that occurred during the validation of his initial submission.</i></p>
Pre-conditions	<i>N/A</i>
Payloads	<i>This action receives the message IE3N99 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Error Notification has been received by the EO system.</i>

Table 8: Specification of IE3N99

3.1.4 IE3N10

Action Attributes	Values
Name	<i>IE3N10</i>
Description	<p>Realised BPM: <i>L4-ICS2-07 Amend ENS filing.</i></p> <p>Triggering Task/Event: <i>T-07-03 - Notify Completion of amendment of ENS filing task.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing is notified about the completion of the ENS filing amendment.</i></p>

Action Attributes	Values
Pre-conditions	<i>An Amendment Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N10 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Amendment Notification has been received by the EO system.</i>

Table 9: Specification of IE3N10

3.1.5 IE3R07

Action Attributes	Values
Name	<i>IE3R07</i>
Description	<i>Realised BPM: L4-ICS2-08 Invalidate filing. Triggering Task/Event: T-08-05 - Notify invalidation of ENS filing completion task. High level description of the tasks realised by the action: The Person filing is notified about the completion of the ENS filing invalidation.</i>
Pre-conditions	<i>An Invalidation Acceptance Response has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3R07 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Invalidation Acceptance Response has been received by the EO system.</i>

Table 10: Specification of IE3R07

3.1.6 IE3N02

Action Attributes	Values
Name	<i>IE3N02</i>
Description	<i>Realised BPM: L4-ICS2-02-01 Relate ENS filings. Triggering Task/Event: T-02-01-01 - Notify ENS not complete to Person filing. High level description of the tasks realised by the action: The Person filing is notified about the non-completion of the ENS Filing.</i>
Pre-conditions	<i>An ENS Not Complete Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N02 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>

Action Attributes	Values
Post-conditions	<i>Upon successful execution of this service action, an ENS Not Complete Notification has been received by the EO system.</i>

Table 11: Specification of IE3N02

3.1.7 IE3N11

Action Attributes	Values
Name	<i>IE3N11</i>
Description	<p><i>Realised BPM: L4-ICS2-02-01 Relate ENS filings.</i></p> <p><i>Triggering Task/Event: T-02-01-03 - Notify ENS filing pending to Person that has not yet filled task.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person that has not yet filled the ENS Filing is notified about its pending for completion.</i></p>
Pre-conditions	<i>An ENS Not Complete Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<p><i>This action receives the message IE3N11 as payload.</i></p> <p><i>Details on the message are available in the Technical Service Contract Document [R02].</i></p>
Post-conditions	<i>Upon successful execution of this service action, an ENS Pending Notification has been received by the EO system.</i>

Table 12: Specification of IE3N02

3.1.8 IE3N03

Action Attributes	Values
Name	<i>IE3N03</i>
Description	<p><i>Realised BPM: L4-ICS2-03 Perform risk analysis.</i></p> <p><i>Triggering Task/Event: T-03-01 - Notify assessment complete to Person filing and T-03-02 Notify assessment complete to Carrier tasks.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing and potentially the Carrier are notified about the assessment completion.</i></p>
Pre-conditions	<i>An Assessment Complete Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<p><i>This action receives the message IE3N03 as payload.</i></p> <p><i>Details on the message are available in the Technical Service Contract Document [R02].</i></p>
Post-conditions	<i>Upon successful execution of this service action, an Assessment Complete Notification has been received by the EO system.</i>

Table 13: Specification of IE3N03

3.1.9 IE3Q01

Action Attributes	Values
Name	<i>IE3Q01</i>
Description	<p><i>Realised BPM: L4-ICS2-03 Perform risk analysis.</i></p> <p><i>Triggering Task/Event: T-03-03 - Notify DNL to Person filing and T-03-04 - Notify DNL to Carrier tasks.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>A Do Not Load notification is submitted to the Person filing and to the Carrier.</i></p>
Pre-conditions	<i>A Do Not Load Request has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3Q01 as payload.</i> <i>Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, a Do Not Load Request has been received by the EO system.</i>

Table 14: Specification of IE3Q01

3.1.10 IE3Q02

Action Attributes	Values
Name	<i>IE3Q02</i>
Description	<p><i>Realised BPM: L4-ICS2-03-01 Send referral.</i></p> <p><i>Triggering Task/Event: T-03-01-01 - Request additional information from Person filing task.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person filing is notified about the request for additional information.</i></p>
Pre-conditions	<i>An Additional Information Request has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3Q02 as payload.</i> <i>Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Additional Information Request has been received by the EO system.</i>

Table 15: Specification of IE3Q02

3.1.11 IE3N04

Action Attributes	Values
Name	<i>IE3N04</i>
Description	<p><i>Realised BPM: L4-ICS2-03-01 Send referral.</i></p> <p><i>Triggering Task/Event: T-03-01-02 - Notify additional information request to Carrier task.</i></p>

	<i>High level description of the tasks realised by the action: The Carrier is notified about the request for additional information submitted to the Person filing.</i>
Pre-conditions	<i>An Additional Information Request has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N04 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Additional Information Request Notification has been received by the EO system.</i>

Table 16: Specification of IE3N04

3.1.12 IE3Q03

Action Attributes	Values
Name	<i>IE3Q03</i>
Description	<i>Realised BPM: L4-ICS2-03-01 Send referral. Triggering Task/Event: T-03-01-04 - Request HRCM screening from Person filing task. High level description of the tasks realised by the action: The Person filing is notified about the HRCM screening request.</i>
Pre-conditions	<i>A High Risk Cargo and Mail Screening Request has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3Q03 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, a High Risk Cargo and Mail Screening Request has been received by the EO system.</i>

Table 17: Specification of IE3Q03

3.1.13 IE3N05

Action Attributes	Values
Name	<i>IE3N05</i>
Description	<i>Realised BPM: L4-ICS2-03-01 Send referral. Triggering Task/Event: T-03-01-05 - Notify HRCM screening request to Carrier task. High level description of the tasks realised by the action: The Carrier is notified about the HRCM screening request submitted to the Person filing.</i>
Pre-conditions	<i>A High Risk Cargo and Mail Screening Request has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>

Payloads	<i>This action receives the message IE3N05 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, a High Risk Cargo and Mail Screening Request Notification has been received by the EO system.</i>

Table 18: Specification of IE3N05

3.1.14 IE3R04

Action Attributes	Values
Name	<i>IE3R04</i>
Description	<i>Realised BPM: L4-ICS2-04 Process arrival of means of transport. Triggering Task/Event: T-04-05 - Notify successful registration and MRN to Person filing task. High level description of the tasks realised by the action: The Person filing is notified about the successful registration of the Arrival notification and the corresponding MRN.</i>
Pre-conditions	<i>An Arrival Notification has been received from the EO system and this notification has been semantically and syntactically validated.</i>
Payloads	<i>This action receives the message IE3R04 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an Arrival Registration Response has been received by the EO system.</i>

Table 19: Specification of IE3R04

3.1.15 IE3N08

Action Attributes	Values
Name	<i>IE3N08</i>
Description	<i>Realised BPM: L4-ICS2-04 Process arrival of means of transport. Triggering Task/Event: T-04-07 - Notify control to Person filing task. High level description of the tasks realised by the action: The Person filing is notified about controls.</i>
Pre-conditions	<i>A Control Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N08 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, a Control Notification has been received by the EO system.</i>

Table 20: Specification of IE3N08

3.1.16 IE3N09

Action Attributes	Values
Name	<i>IE3N08</i>
Description	<p>Realised BPM: <i>L4-ICS2-06-01 Handle AEO notification.</i></p> <p>Triggering Task/Event: <i>T-06-01-01 Notify Person filing (AEOS) about controls and T-06-01-02 - Notify Carrier (AEOS) about controls tasks.</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>Both the Person filing and the Carrier are potentially notified about controls.</i></p>
Pre-conditions	<i>An AEO Control Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N09 as payload.</i> <i>Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an AEO Control Notification has been received by the EO system.</i>

Table 21: Specification of IE3N08

3.1.17 IE3N07

Action Attributes	Values
Name	<i>IE3N07</i>
Description	<p>Realised BPM: <i>L4-ICS2-04 Process arrival of means of transport.</i></p> <p>Triggering Task/Event:</p> <p><i>T-04-06 - Notify House consignments in incorrect state to Person notifying the arrival and (as of Release 3) T-04-29 - Notify House consignments in incorrect state to Person filing and T-04-33 - Notify House consignments in incorrect state to Notify Party</i></p> <p><i>High level description of the tasks realised by the action:</i></p> <p><i>The Person notifying the arrival and, as of Release 3, (potentially) the Notify Party and (potentially) the Person filing are notified about the incorrect state of the House consignments.</i></p>
Pre-conditions	<i>An ENS in Incorrect State Notification has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3N07 as payload.</i> <i>Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an ENS in Incorrect State Notification has been received by the EO system of the Person notifying the arrival and, as of Release 3, (potentially) by the EO system of the Notify Party and (potentially) by the EO system of Person filing.</i>

Table 22: Specification of IE3N07

3.1.18 IE3R08

Action Attributes	Values
Name	<i>IE3R08</i>
Description	<i>Realised BPM: L4-ICS2-13 ENS Consultation. Triggering Task/Event: T-13-02 – Send ENS consultation results. High level description of the tasks realised by the action: The Party requesting consultation is notified about the consultation results.</i>
Pre-conditions	<i>An ENS consultation results (IE4R06) has been submitted by the ICS2 CR Application, received and forwarded by the ICS2 TI Application.</i>
Payloads	<i>This action receives the message IE3R08 as payload. Details on the message are available in the Technical Service Contract Document [R02].</i>
Post-conditions	<i>Upon successful execution of this service action, an ENS consultation results has been received by the EO system.</i>

Table 23: Specification of IE3R08

3.2 ERROR HANDLING

3.2.1 Synchronous Error Handling

In case an error occurs within processing of the message by the receiving AS4 Access Point (technical error) an error signal message will be synchronously sent to the sending AS4 Access Point.

Please refer to the section 4.3 of the ICS2 Interface Control Document [R03] for more details on signal message and error signal message in particular.

3.3 SERVICE USAGE TERMS

The service usage terms described in the following subsections are applicable for the services implemented by the Trader Interface systems (NTI/STI). They are as such not applicable to the services described in this document and are therefore only informative.

3.3.1 Service policies

3.3.1.1 Service security and data protection

- Service confidentiality classification:

The ICS2 STI system Confidentiality classification is “**LIMITED HIGH**”: it is an information system reserved for a limited number of persons on a need-to-know basis and whose disclosure to unauthorised persons would be prejudicial to the trader/his representative, Commission, other Institutions, Member States or other parties.

Additionally, the ICS2 STI system processes personal data. Thus, it must be compliant with Regulation (EC) No 45/2001² on the protection of individuals with regard to the processing of personal data by the Community institutions and bodies and on the free movement of such data. As far as the architecture overview is concerned, the systems will conform to the "Security of processing" requirement for personal data.

Finally, the traders receive sensitive information from ICS2 STI system. A reliable messaging will be ensured by eDelivery which provides a secure and reliable messaging channel using the eDelivery AS4 profile business-to-business protocol for all message exchanges between the trader system and the ICS2 STI system in both directions (including non-repudiation requirements).

Confidentiality	Integrity	Availability	Personal Data
LIMITED HIGH	CRITICAL	STRATEGIC	YES

Table 24: Service confidentiality classification

- Security Mechanisms:

Category	Value
End to End Security	<i>Transport Level</i>
Authentication	<i>Yes</i>
Authorisation	<i>Yes</i>
Integrity	<i>Yes</i>
Encryption	<i>Yes</i>
Reliable Messaging	<i>Yes. A reliable messaging will be ensured by eDelivery which provides a secure and reliable messaging channel using the eDelivery e-Sense AS4 business-to-business protocol for all message exchanges between the trader system and the ICS2 STI system in both directions (including non-repudiation requirements).</i>

Table 25: Security mechanisms

3.3.1.2 Other service usage policies

N/A

3.3.2 Default Quality of Service (QoS)

3.3.2.1 Service reliability

Category	Description	Indicator	Value	Penalty
Availability	<i>The availability requirements for the ICS2 STI system are</i>	<i>Downtime in years</i>	<i>99,45%³ (source:</i>	<i>N/A</i>

² Personal Data Protection Regulation (EC) 45/2001 and the Confidentiality, Integrity, Availability and Security Requirements of Information Systems defined in the Commission Decision C(2006) 3602 of 16.08.2006, Annex I.

³ This is only valid for ICS2 R2 until Q3/2022. As of Q4/2022, GOLD SLA will become into effect and the required availability will be 99.8%.

Category	Description	Indicator	Value	Penalty
	<i>expressed in availability during 24 hours per day, 365 days per year with a service window of 1 hour per week (during Mondays between 2:30 AM and 3:30 AM).</i>		<i>Architecture Overview document [R05]</i>	

Table 26: Service reliability

3.3.2.2 Service performance

Category	Description	Indicator	Value	Penalty																		
Latency	<i>Refers to the maximum amount of time between the arrival of a request and the completion of that request.</i>	<i>Duration (in milliseconds)</i>	<i>100ms</i>	<i>N/A</i>																		
Capacity	<i>Refers to the number of concurrent requests that can be handled by the service in a given time period. It is possible to specify the maximum number of concurrent requests that can be handled by a service in a set block of time.</i>	<i>Filings received per second. ⁴</i>	<table border="1"> <thead> <tr> <th colspan="2">Release 1:</th> </tr> <tr> <th><i>Normal Traffic:</i></th> <th><i>Peak Traffic:</i></th> </tr> </thead> <tbody> <tr> <td><i>43.2</i></td> <td><i>172.7</i></td> </tr> <tr> <th colspan="2">Release 2:</th> </tr> <tr> <th><i>Normal Traffic:</i></th> <th><i>Peak Traffic:</i></th> </tr> <tr> <td><i>62.7</i></td> <td><i>250.9</i></td> </tr> <tr> <th colspan="2">Release 3:</th> </tr> <tr> <th><i>Normal Traffic:</i></th> <th><i>Peak Traffic:</i></th> </tr> <tr> <td><i>73.7</i></td> <td><i>294.8</i></td> </tr> </tbody> </table>	Release 1:		<i>Normal Traffic:</i>	<i>Peak Traffic:</i>	<i>43.2</i>	<i>172.7</i>	Release 2:		<i>Normal Traffic:</i>	<i>Peak Traffic:</i>	<i>62.7</i>	<i>250.9</i>	Release 3:		<i>Normal Traffic:</i>	<i>Peak Traffic:</i>	<i>73.7</i>	<i>294.8</i>	<i>N/A</i>
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<i>73.7</i>	<i>294.8</i>																					

Table 27: Service performance

⁴ Figures are calculated based on the current volumetric estimates. The provided figures are global figures of outgoing traffic from STI. Hence, only a specific portion of this traffic will be targeting a specific instance of the service implemented by a given system.

4 SERVICE ORCHESTRATION LOGIC

4.1 ORCHESTRATION LOGIC

Details on the business orchestration logic executed asynchronously between the TI and EO applications are described in the Interface Control Document [R03].

5 ANNEX: SUPPORTED ACTIONS PER STI RELEASE

The following tables group the actions that are supported per each ICS2 STI release.

Action	R1	R2	R3
IE3N01	X	X	X
IE3N03	X	X	X
IE3N04	X	X	X
IE3N05	X	X	X
IE3N09	X	X	X
IE3N10	X	X	X
IE3N99	X	X	X
IE3Q01	X	X	X
IE3Q02	X	X	X
IE3Q03	X	X	X
IE3R01	X	X	X
IE3R07	X	X	X
IE3N02		X	X
IE3N07		X	X
IE3N08		X	X
IE3N11		X	X
IE3R04		X	X
IE3R08		X	X