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| Excise Functional Requirements BPM Report - SEED |
| COVER PAGE |

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| OWNER: DG TAXUD | ISSUE DATE: 18/11/2021 | VERSION: 4.01 |
| <p>European Commission Taxation and Customs Union DG</p> <p>SUBJECT: Excise Functional Requirements BPM Report - SEED SC11-RfA#667</p> | | |
| <p>FRAMEWORK CONTRACT: TAXUD/2013/CC/121</p> | | |
| <p>STATUS: MSI</p> | | |

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1. INTRODUCTION

1.1. Document Purpose

This document presents the L4 Functional Requirements Processes for SEED. This includes L4 processes that show the human interaction tasks and the automated tasks and the information exchanges. In addition, there is an annex containing graphic representations of the L4 Business Process Diagrams. This report is generated from ARIS and only contains information present in ARIS.

1.2. Deviation From TEMPO

The following TEMPO sections are not part of this document:

- Sign Off list;
- Distribution List;
- Scope;
- Applicable Documents;
- List of Tables;
- List of Figures.

The following TEMPO sections are added to this document:

- Project Ownership;
- Intended Audience.

1.3. Assumption and Constraints

The reader should have a basic knowledge of the EU BPM methodology.

1.4. Project Ownership

The unit DG TAXUD/C2 is the project owner of this Excise Functional Requirements BPM Report.

1.5. Intended Audience

The purpose of this document is to establish a common understanding between readers that are familiar with the applicable documents and may belong to the following categories:

- Any person responsible for the Excise - EMCS business / system processes, requirements, functional specifications or conformance testing;
- Any person responsible for the Export - AES business / system processes, requirements, functional specifications or conformance testing;
- Any person of the development team of DG TAXUD/C5 who will use this document as a reference during the development cycle;
- Any person from the DG TAXUD units who has to verify whether the current document is consistent with the applicable documents and depicts the solution to be followed;
- Any Member State (MS) or Trade representatives who have to identify the actions, implications and consequences on their national domain, including both business people and people having an IT background.

1.6. Structure of Document

This document is organised as follows:

- Introduction;
- References, containing a list of acronyms and abbreviations and the documents referenced in this functional requirements document;

- Document History, listing the different versions and submission dates of this functional requirements document;
- High Level System Overview, providing an overview of the system and the actors involved in this functional requirements document;
- Process Models, visualising in separate sections information from all L4 BPMs relating to the system covered in this functional requirements document.

In separate document, the following related annex may be found:

- Annex 1: Model Graphics, providing all L4 BPM models

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| Excise Functional Requirements BPM Report - SEED |
| REFERENCES |

2. REFERENCES

2.1. Acronyms and abbreviations

| ACRONYM | DESCRIPTION |
|----------|---|
| BPM | Business Process Model |
| B2B | Business-to-Business |
| CCN | Common Communication Network |
| COL | Customs Office List |
| DG TAXUD | Directorate General Taxation and Customs Union |
| e-AD | Electronic Administrative Document |
| ELO | Excise Liaison Office |
| EMCS | Excise Movement and Control System |
| EOL | Excise Office List |
| e-SAD | Electronic Simplified Administrative Document |
| EU | European Union |
| ID | Identifier |
| IT | Information Technology |
| MS | Member State(s) |
| MSA | Member State Administration |
| N/A | Not Applicable |
| HL | High Level |
| RADM | Registration and Authorisation Data Management |
| Reg | Regulation |
| TEMPO | TAXUD Electronic Management of Projects On-Line |
| UR | User Requirement |

Table 2.1: Acronyms and abbreviations

2.2. Reference Documents

The following documents are of interest to this document and its annexes:

| REF. | TITLE | ORIGINATOR | VERSION | DATE |
|------|---|------------|---------|------------|
| R01 | EU CUSTOMS BPM METHODOLOGY DOCUMENT-v4.00 | DG TAXUD | 4.00 | 10/11/2015 |
| R02 | Functional Excise System Specifications | DG TAXUD | v3.69 | 16/08/2016 |

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|-----|---|----------|-------|------------|
| R03 | Design Document for National Excise Applications (EMCS Phase 3) | DG TAXUD | v1.79 | 16/06/2016 |
|-----|---|----------|-------|------------|

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2.2:

Reference

Documents

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| Excise Functional Requirements BPM Report - SEED |
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3. DOCUMENT HISTORY

| ED. | REV. | DATE | DESCRIPTION | ACTION * | PAGES |
|-----|------|------------|---|----------|-------|
| 0 | 01 | 27/06/2014 | <p>Producing the following:</p> <p>a) L4 models:</p> <p>L4-RADM-AS-IS-01-01-Maintenance of registration data</p> <p>L4-RADM-AS-IS-01-02-Consultation of registration data by MSA central services</p> <p>L4-RADM-AS-IS-01-03-Dissemination of registration data</p> <p>L4-RADM-AS-IS-01-04-Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>L4-RADM-AS-IS-01-05-Consultation of registration information by Economic Operators</p> <p>L4-RADM-AS-IS-01-06-SEED statistics</p> <p>L4-RADM-AS-IS-01-07-Perform validation of Common Domain message</p> <p>L4-RADM-AS-IS-01-08-Handle validation Results of Common Domain message</p> <p>b) L4 FADs:</p> <p>Identify whether there are any MSAs that are registered to receive disseminations on the Operations on the Register of Economic Operators</p> <p>Build Operations on the Register of Economic Operators</p> <p>Notify MSA Central Services of Operations on the Register of Economic Operators</p> <p>Record Operations on the Register of Economic Operators</p> <p>Notify the MSA Central Services on the operations on the register of economic operators</p> <p>Build Replication of Excise Authorisations</p> | I,U | All |

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| | | | <p>Notify SEED-on-Europa of Replication of Excise Authorisations</p> <p>Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>Record Replication of Excise Authorisations</p> <p>Acknowledge answer no</p> <p>Acknowledge answer no(1)</p> <p>Acknowledge answer yes along with key details of excise authorization</p> <p>Identify whether the Excise Number exists</p> <p>Identify whether the Excise Number is valid for the current date</p> <p>Record request for verifying an Excise Number</p> <p>Register request for verifying an Excise Number</p> <p>Build SEED Statistics</p> <p>Notify MSA Central Services of SEED Statistics</p> <p>Record SEED Statistics</p> <p>Perform Business Compliance validation of Common Domain message</p> <p>Perform Syntactic validation of Common Domain message</p> <p>Build Negative Acknowledgement of XML Receipt refusal message</p> <p>Build Refusal of Common Request</p> <p>Build Refusal of Update of Economic Operators message</p> <p>Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message</p> <p>Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message</p> <p>Notify MSA Central Services of Refusal of Common Request</p> <p>Notify MSA Central Services of Refusal of Update of Economic Operators Message</p> | | |
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| | | | <p>Record Negative Acknowledgement of XML Receipt refusal message</p> <p>Record Refusal of Common Request</p> <p>Record Refusal of Update of Economic Operators message</p> <p>Record valid message</p> <p>c) Functional Requirements Trees:</p> <p>Consultation of registration data by MSA central services</p> <p>Consultation of registration information by Economic Operators</p> <p>Dissemination of registration data</p> <p>Handle validation Results of Common Domain message</p> <p>Maintenance of the Central Register</p> <p>Perform validation of Common Domain message</p> <p>Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>SEED statistics</p> <p>d) Requirements Map:</p> <p>Requirements Map - Registration and Authorisation Data Management;</p> <p>e) Business codelist Models:</p> <p>BC Excise Product</p> <p>BC Excise Products Categories</p> <p>BC Language Codes</p> <p>BC Member States</p> <p>CL Operations on the Register of Economic Operators or a Common Request message</p> <p>TC Common Request Rejection Reason</p> <p>TC Common Request Type</p> <p>TC Flag</p> <p>TC Modification Type</p> <p>TC Month</p> | | |
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|--|--|--|---|--|--|
| | | | TC Operator Role Code TC Operator Type Code TC Primary Criterion Type Code TC Quarter TC Reason to refuse update of economic operators TC Request Message Name TC Requested List of Codes (full) TC SEED Message Type TC Semester TC Statistics Type f)Data Groups: ATTRIBUTES for IE701 E-AD LIST REQUEST RA_PRIMARY CRITERION STA_REQUEST LIST OF MEMBER STATES Code STA_PERIOD LIST OF CODES Code for IE701 REJECTION for IE702 ATTRIBUTES for IE713 TRADER AUTHORISATION ACTION for IE713 NAME AND ADDRESS ADDRESS OPERATOR ROLE Code EXCISE PRODUCTS CATEGORY Code for IE713 EXCISE PRODUCT Code TEMPORARY AUTHORISATION TRADER Consignor for IE713 TEMPORARY AUTHORISATION DETAILS REJECTION for IE714 STA_PERIOD STA_PER_MS OPERATOR_TYPE EXCISE_PRODUCT_ACTIVITY OPERATOR_TYPE_ALL_MS EXCISE_PRODUCT_CATEGORY _ACTIVITY_ALL_MS EXCISE_PRODUCT_ACTIVITY_ ALL_MS | | |
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| | | | <p>Result Identify if the Excise Number is valid for the current date</p> <p>Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message</p> <p>Result Identify whether the Excise Number exists</p> <p>Result Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators</p> <p>Result Identify if the Common Domain message is syntactically valid</p> <p>Result Identify if the Common Domain message passed Business Compliance validation successfully.</p> <p>in accordance with RFA 377 Submitted for review to DG Taxation and Customs Union.</p> | | |
| 1 | 00 | 11/11/2016 | <p>Producing the following:</p> <p>a) L4 models:</p> <p>L4-RADM-AS-IS-01-01-Maintenance of registration data</p> <p>L4-RADM-AS-IS-01-02-Consultation of registration data by MSA central services</p> <p>L4-RADM-AS-IS-01-03-Dissemination of registration data</p> <p>L4-RADM-AS-IS-01-04-Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>L4-RADM-AS-IS-01-05-Consultation of registration information by Economic Operators</p> <p>L4-RADM-AS-IS-01-06-SEED statistics</p> <p>L4-RADM-AS-IS-01-07-Perform validation of Common Domain message</p> <p>L4-RADM-AS-IS-01-08-Handle validation Results of Common</p> | I,U | All |

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| | | | <p>Domain message</p> <p>b) L4 FADs:</p> <p>Identify whether there are any MSAs that are registered to receive disseminations on the Operations on the Register of Economic Operators</p> <p>Build Operations on the Register of Economic Operators</p> <p>Notify MSA Central Services of Operations on the Register of Economic Operators</p> <p>Record Operations on the Register of Economic Operators</p> <p>Notify the MSA Central Services on the operations on the register of economic operators</p> <p>Build Replication of Excise Authorisations</p> <p>Notify SEED-on-Europa of Replication of Excise Authorisations</p> <p>Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>Record Replication of Excise Authorisations</p> <p>Acknowledge answer no</p> <p>Acknowledge answer no(1)</p> <p>Acknowledge answer yes along with key details of excise authorization</p> <p>Identify whether the Excise Number exists</p> <p>Identify whether the Excise Number is valid for the current date</p> <p>Record request for verifying an Excise Number</p> <p>Register request for verifying an Excise Number</p> <p>Build SEED Statistics</p> <p>Notify MSA Central Services of SEED Statistics</p> <p>Record SEED Statistics</p> <p>Perform Business Compliance validation of Common Domain</p> | | |
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| | | | <p>message</p> <p>Perform Syntactic validation of Common Domain message</p> <p>Build Negative Acknowledgement of XML Receipt refusal message</p> <p>Build Refusal of Common Request</p> <p>Build Refusal of Update of Economic Operators message</p> <p>Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message</p> <p>Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message</p> <p>Notify MSA Central Services of Refusal of Common Request</p> <p>Notify MSA Central Services of Refusal of Update of Economic Operators Message</p> <p>Record Negative Acknowledgement of XML Receipt refusal message</p> <p>Record Refusal of Common Request</p> <p>Record Refusal of Update of Economic Operators message</p> <p>Record valid message</p> <p>c) Functional Requirements Trees:</p> <p>Consultation of registration data by MSA central services</p> <p>Consultation of registration information by Economic Operators</p> <p>Dissemination of registration data</p> <p>Handle validation Results of Common Domain message</p> <p>Maintenance of the Central Register</p> <p>Perform validation of Common Domain message</p> <p>Prepare an extract from SEED of currently valid Excise Authorisations</p> <p>SEED statistics</p> | | |
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|--|--|--|---|--|--|
| | | | <p>d) Requirements Map: Requirements Map - Registration and Authorisation Data Management;</p> <p>e) Business codelist Models: BC Excise Product BC Excise Products Categories BC Language Codes BC Member States CL Operations on the Register of Economic Operators or a Common Request message TC Common Request Rejection Reason TC Common Request Type TC Flag TC Modification Type TC Month TC Operator Role Code TC Operator Type Code TC Primary Criterion Type Code TC Quarter TC Reason to refuse update of economic operators TC Request Message Name TC Requested List of Codes (full) TC SEED Message Type TC Semester TC Statistics Type</p> <p>f)Data Groups: ATTRIBUTES for IE701 E-AD LIST REQUEST RA_PRIMARY CRITERION STA_REQUEST LIST OF MEMBER STATES Code STA_PERIOD LIST OF CODES Code for IE701 REJECTION for IE702 ATTRIBUTES for IE713 TRADER AUTHORISATION ACTION for IE713 NAME AND ADDRESS</p> | | |
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|---|----|------------|--|-----|-----|
| | | | <p>ADDRESS</p> <p>OPERATOR ROLE Code</p> <p>EXCISE PRODUCTS CATEGORY Code for IE713</p> <p>EXCISE PRODUCT Code</p> <p>TEMPORARY AUTHORISATION</p> <p>TRADER Consignor for IE713</p> <p>TEMPORARY AUTHORISATION DETAILS</p> <p>REJECTION for IE714</p> <p>STA_PERIOD</p> <p>STA_PER_MS</p> <p>OPERATOR_TYPE</p> <p>EXCISE_PRODUCT_ACTIVITY</p> <p>OPERATOR_TYPE_ALL_MS</p> <p>EXCISE_PRODUCT_CATEGORY_ACTIVITY_ALL_MS</p> <p>EXCISE_PRODUCT_ACTIVITY_ALL_MS</p> <p>Result Identify if the Excise Number is valid for the current date</p> <p>Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message</p> <p>Result Identify whether the Excise Number exists</p> <p>Result Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators</p> <p>Result Identify if the Common Domain message is syntactically valid</p> <p>Result Identify if the Common Domain message passed Business Compliance validation successfully.</p> <p>in accordance with RFA 377.Submitted for acceptance to DG Taxation and Customs Union.</p> | | |
| 1 | 01 | 03/03/2017 | Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under | I,U | All |

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| | | | | | |
|---|----|------------|--|------|-----|
| | | | SC04-RFA#393 Submitted for review to DG Taxation and Customs Union. | | |
| 1 | 02 | 15/06/2017 | Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under SC04-RFA#393 Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 03 | 15/06/2017 | Produced/Updated L4 Models and Artefacts (Completion of EMCS 3.3 BPMs) under SC03-RFA#077. Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 04 | 04/08/2017 | Published for Member States (MSP). | I,U | All |
| 1 | 05 | 03/04/2018 | Submitted for Review to DG Taxation and Customs Union. | I,U | All |
| 1 | 06 | 02/05/2018 | Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 07 | 02/05/2018 | Published for Member States (MSI). | I,U | All |
| 1 | 08 | 08/10/2018 | Implementation of EMCS 3.4 BPMs under SC05-RfA #525. Submitted for Review to DG Taxation and Customs Union. | I,U | All |
| 1 | 09 | 29/10/2018 | Implementation of EMCS 3.4 BPMs under SC05-RfA #525. Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 10 | 23/11/2018 | Published for Member States (MSI). | I,U | All |
| 3 | 92 | 11/11/2020 | Implementation of EMCS Phase 4 BPMs under SC09-RfA#632. Submitted for Review to DG Taxation and Customs Union. | I, U | All |
| 3 | 93 | 01/12/2020 | Implementation of review comments for EMCS Phase 4 BPMs under SC09-RfA#632. Submitted for Acceptance to DG | I, U | All |

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| | | | Taxation and Customs Union. | | |
| 3 | 94 | 16/12/2020 | Implementation of Phase 4 BPMs under SC09-RfA#632. Submitted for Member States' review. | I, U | All |
| 4 | 00 | 19/04/2021 | Implementation of Phase 4 Member States review comments under SC09-RfA#632. Published for Member States Information (MSI). | I, U | All |
| 4 | 01 | 18/11/2021 | Implementation of the following RFCs: FESS-274, FESS-276, FESS-277, FESS-278, FESS-279, FESS-280, FESS-281, FESS-282, FESS-283, FESS-284, FESS-285. Published for Member States Information (MSI). | I, U | All |

Table

3.1:

Document

History

*I = Insert, R = Replace, U = Update

4. HIGH LEVEL SYSTEM OVERVIEW

4.1. System Overview

This document contains the functional specifications for the Excise Movement and Control System to which any Nationally Developed Excise Application (NDEA) and Centrally Developed Excise Application (CDEA) needs to conform. These functional specifications are to be regarded as the basis for the development of the technical specifications (i.e. DDNEA – 'Design Document for National Excise Applications'). It is important to note that the complete functional specifications can be found in ARIS and that this document is envisaged to be supporting documentation to the diagrams and information in ARIS. If the legal baseline of this document would change, the functional specifications will need to be updated and aligned.

Since the actual implementation of the system is under national responsibility, the division between user interface and automated tasks included in this document should be considered as a proposal from DG TAXUD. MSAs are free to deviate and introduce more or less automation. However, as with all Trans-European Systems, compliance with the common domain information exchanges will be mandatory to ensure automated communication between MSAs.

4.2. Actors

| ACTORS | DESCRIPTION |
|-------------------------|---|
| SEED user | SEED user interacts with SEED (System for Exchange of Excise Data) to achieve his/her business goals or to support the primary functions. |
| SEED | The System for Exchange of Excise Data (SEED) is located in the Common Domain. It provides management and dissemination services regarding information on the Economic Operators register and the Reference Data register. It also provides exchange of SEED statistics. |
| SEED-on-Europa service | SEED-on-EUROPA service provides accessing of some SEED register data (simple verification of excise authorisations). |
| SEED-on-Europa site | SEED-on-EUROPA site is made available via the EUROPA web portal, and is intended for use by economic operators (who cannot directly access the SEED). Although SEED-on-EUROPA site is intended for use by economic operators, the EUROPA portal is a public site that can be accessed by any Internet users. As such, the information offered by SEED-on-EUROPA site is intentionally limited to avoid the possibility of any misuse of the published excise data. |
| MSA Central Services | Central services in each MS: <ul style="list-style-type: none"> · produce, submit, receive and keep SEED and reference data information including the EOL; · request and receive SEED statistics. |
| MSA Central Application | MSA Central Services application: <ul style="list-style-type: none"> · produce, submit, receive and keep SEED and reference data |

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| HIGH LEVEL SYSTEM OVERVIEW |

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| | information including the EOL; · request and receive SEED statistics; · provide information on the reference data to economic operators. |
| Common Domain Central Services | Central services in the Common Domain: · receive, validate, consolidate, keep and disseminate registration information and the EOL; · produce, keep and disseminate reference data; · produce and send SEED statistics; · ensure a global monitoring of the system and provide some added value services. |
| SEED | |
| Requestor | Any person accessing the Web. |
| Excise Authority | |
| Economic Operator | Any economic operator involved at a given movement either as Consignor or as a Consignee. |
| SEED User | |
| MSA Central Application User | |

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| PROCESS MODELS |

5. PROCESS MODELS

5.1. Process L4-RADM-01-00-Registration and Authorisation Data Management Master Process

5.1.1. Objective of Process

The purpose of this diagram is to present in one diagram the main flow concerning Registration and Authorisation Data Management. This diagram mainly focuses on the successful path. For more details please check the respective L4 BPMN diagrams.

5.1.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RADM-01-00 |
| Full Name | Registration and Authorisation Data Management Master Process |
| Assumptions | The following discrepancy is detected between FESS and DDNEA: According to DDNEA (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA), after receiving a valid IE713 from a MSA, SEED disseminates this valid IE713 to all MSAs that opted for receiving IE713 disseminations. This is also in alignment with the current system behaviour. However, in FESS Section II (see EBP UC-115-110 “Disseminate changes”), it is not clarified that, in this scenario, SEED sends the IE713 only to the MSAs who are registered to receive IE713 disseminations. Given that DDNEA is considered valid in this case, the concerned part of the flow is depicted in alignment with DDNEA. |
| Constraints | No constraints. |
| L3 Reference Models | N/A |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.1: Process Details

5.1.3. Tasks and Events

Task Maintenance of registration data

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|----------------------------------|
| Task Name | Maintenance of registration data |
| Task Type | Call activity (collapsed) |
| Description | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|------------------|
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Gateway |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.2: Task Maintenance of registration data

Event Registration and Authorisation Data to be updated and made available to MSAs/Economic Operators and Statistical Information to be communicated to MSAs

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Registration and Authorisation Data to be updated and made available to MSAs/Economic Operators and Statistical Information to be communicated to MSAs |
| Event Type | Start event |
| Description | |
| Previous Objects | |

Table 5.3: Event Registration and Authorisation Data to be updated and made available to MSAs/Economic Operators and Statistical Information to be communicated to MSAs

Task Consultation of registration data by MSA central services

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Consultation of registration data by MSA central services |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Does MSA decide to search Central Register? |
| Information Exchange | |
| Requirements | |
| Data Set | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|--------|--|
| Events | |
| State | |

Table 5.4: Task Consultation of registration data by MSA central services

Task SEED statistics

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | SEED statistics |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Does MSA decide to request SEED statistics? |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.5: Task SEED statistics

Task Consultation of registration information by Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Consultation of registration information by Economic Operators |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Does a requestor want to verify the validity of an excise number at a given date? |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| State | |
|-------|--|

Table 5.6: Task Consultation of registration information by Economic Operators

Event Registration and Authorisation Data updated and made available to MSAs/Economic Operators and Statistical information communicated to MSAs

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Registration and Authorisation Data updated and made available to MSAs/Economic Operators and Statistical information communicated to MSAs |
| Event Type | End event |
| Description | |
| Previous Objects | Gateway |

Table 5.7: Event Registration and Authorisation Data updated and made available to MSAs/Economic Operators and Statistical information communicated to MSAs

5.2. Process L4-RADM-01-01-Maintenance of registration data

5.2.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the maintenance of registration data, in accordance with the current Common Specifications (FESS and DDNEA) (*).

The process is triggered when SEED at Common Domain Central Services receives an Operations on the register of economic operators message (IE713) from Central Services of an MSA (MSA Central Services).

After receiving the Operations on the register of economic operators message (IE713) from the MSA Central Services, SEED at Common Domain Central Services validates its data by using the “L4-RADM-01-07-Perform validation of Common Domain message” sub process. Then, SEED proceeds with the handling of the validation results by using the “L4-RADM-01-08-Handle validation Results of Common Domain message” call activity.

It shall be clarified that in cases the received IE713 message includes ‘Delete’ operations, then central SEED will:

Validate delete operation against the applicable IE713 rules and conditions (as per the existing process for Create/Update/Invalidate operations);

Validate that the entities are deleted only by the owner MSA (as per the existing process for Create/Update/Invalidate operations);

Validate that the entities are deleted in alignment to the agreed ‘terms of collaboration’ for deletion of SEED records:

The delete operation is related to an economic operator who is not involved in any movement at all or;

The delete operation is related to an economic operator who is not involved in an open movement and;

The activation date of the ‘delete’ operation must be at least five years after the end of the calendar year of the start of any movement (i.e. date and time of validation of the e-AD/e-SAD) the economic operator is involved in.

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Depending on the outcome (end event) of the “L4-RADM-01-08-Handle validation Results of Common Domain message” call activity, the following may happen:

- a. If a refusal message (IE917/IE714) is sent to the MSA Central Services (since the Operations on the register of economic operators message was found invalid), the whole process ends at this point;
- b. If the Operations on the register of economic operators message (IE713) is recorded (since it was found valid), the process continues.

Following, SEED identifies whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators (IE713):

- In case there are no MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators (IE713), the process ends here;
- In case there are MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators (IE713), SEED proceeds with disseminating the specific IE713 messages to all MSAs that are registered to receive IE713 disseminations (by using the “L4-RADM-01-03-Dissemination of registration data” call activity) and the whole process ends.

It shall be noted that in Duty Paid B2B it is allowed to have movements among traders with temporary certified authorizations. The interconnection of the temporary certified authorizations takes place according to the following process:

- A Temporary Certified Consignee gets registered without linked trader and obtains a SEED number;
- The Temporary Certified Consignee (directly or via other stakeholders) informs the respective Temporary Certified Consignor of their SEED number;
- The Temporary Certified Consignor gets registered having as linked trader this Temporary Certified Consignee;
- The Temporary Certified Consignor (directly or via other stakeholders) informs the Temporary Certified Consignee of their SEED number;
- The Temporary Certified Consignee has their authorisation updated having as linked trader the Temporary Certified Consignor;
- The Temporary Certified Consignee (directly or via other stakeholders) informs the Temporary Certified Consignor that their authorisation is updated and completed;
- The Temporary Certified Consignor may then submit the e-SAD.

In addition, the MSAs can optionally select to implement the automation of the update of the Temporary Certified Consignee's authorisation data, upon receipt of the Temporary Certified Consignor's authorisation data by CA SEED, in which data the Temporary Certified Consignee is the linked trader to the Temporary Certified Consignor. The details of such an implementation remain a national matter.

(*) The following discrepancies are detected:

1. A discrepancy is detected between the current Common Specifications (FESS and DDNEA) and the existing system behaviour (SEED):
 - According to the current Common Specification (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA and sub-Section “4.2.1 Overview” of “Dissemination of registration data (UC1.15)” of FESS Section III), after receiving a valid IE713 from a MSA, SEED builds a consolidated message (IE713) composed of all valid updates submitted by the MSAs. That is, the IE713 to be disseminated (to all MSAs that are registered to receive IE713 disseminations) contains not only the updates submitted via the specific IE713, but consolidated updates (including updates submitted previously by the MSAs); however

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

· According to the existing system behaviour (SEED), after receiving a valid IE713 from a MSA central services, SEED disseminates this valid IE713 to all MSAs that are registered to receive IE713 disseminations (i.e. no consolidated message is built).

Given that the existing system behaviour is considered valid, the concerned part of the flow is designed in alignment with the current system. (A relevant corrective action shall be taken in the Common Specifications as per the ITSM incident IM176181.)

2. A discrepancy is detected between FESS and DDNEA: According to DDNEA (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA), after receiving a valid IE713 from a MSA, SEED disseminates this valid IE713 to all MSAs that opted for receiving IE713 disseminations. This is also in alignment with the current system behaviour. However, in FESS Section II (see EBP UC-115-110 “Disseminate changes”), it is not clarified that, in this scenario, SEED sends the IE713 only to the MSAs who are registered to receive IE713 disseminations. Given that DDNEA is considered valid in this case, the concerned part of the flow is depicted in alignment with DDNEA. (A relevant corrective action shall be taken in the FESS as per the ITSM incident IM176182.)

5.2.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|------------------------|--|
| Process ID | L4-RADM-01-01 |
| Full Name | Maintenance of registration data |
| Assumptions | <p>1. The following discrepancy is detected between the current Common Specifications (FESS and DDNEA) and the existing system behaviour (SEED):</p> <ul style="list-style-type: none"> · According to the current Common Specification (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA and sub-Section “4.2.1 Overview” of “Dissemination of registration data (UC1.15)” of FESS Section III), after receiving a valid IE713 from a MSA, SEED builds a consolidated message (IE713) composed of all valid updates submitted by the MSAs. That is, the IE713 to be disseminated (to all MSAs that are registered to receive IE713 disseminations) contains not only the updates submitted via the specific IE713, but consolidated updates (including updates submitted previously by the MSAs); however · According to the existing system behaviour (SEED), after receiving a valid IE713 from a MSA central services, SEED disseminates this valid IE713 to all MSAs that are registered to receive IE713 disseminations (i.e. no consolidated message is built). <p>Given that the existing system behaviour is considered valid, the concerned part of the flow is designed in alignment with the current system. (A relevant corrective action shall be taken in the Common Specifications as per the ITSM incident IM176181.)</p> <p>2. The following discrepancy is detected between FESS and DDNEA: According to DDNEA (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA), after receiving a valid IE713 from a MSA, SEED disseminates this valid IE713 to all MSAs that opted for receiving IE713 disseminations. This is also in alignment with the current system behaviour. However, in FESS Section II (see EBP UC-115-110 “Disseminate changes”), it is not clarified that, in this scenario, SEED sends the IE713 only to the MSAs who are registered to receive IE713</p> |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | disseminations. Given that DDNEA is considered valid in this case, the concerned part of the flow is depicted in alignment with DDNEA. (A relevant corrective action shall be taken in the FESS as per the ITSM incident IM176182.) |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-01-Maintenance of the Central Register |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.8: Process Details

5.2.3. Tasks and Events

Event Operations on the register of economic operators received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Operations on the register of economic operators received |
| Event Type | Message start event |
| Description | Operations on the register of economic operators (IE713) received at SEED. This indicates that the MSA central services performed a creation, an update or an invalidation of a specific record of the registration data at national level. |
| Previous Objects | MSA Central Services |

Table 5.9: Event Operations on the register of economic operators received

Task Perform validation of operations on the register of economic operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Perform validation of operations on the register of economic operators |
| Task Type | Subprocess (collapsed) |
| Description | This task is modelled in a separate process: L4-RADM-AS-IS-01-07-Perform validation of Common Domain message. . |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Operations on the register of economic operators received |
| Information Exchange | |
| Requirements | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Data Set | |
| Events | |
| State | |

Table 5.10: Task Perform validation of operations on the register of economic operators

Task Handle validation results of operations on the register of economic operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Handle validation results of operations on the register of economic operators |
| Task Type | Call activity (collapsed) |
| Description | This task is modelled in a separate process: L4-RADM-AS-IS-01-08-Handle validation Results of Common Domain message. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Perform validation of operations on the register of economic operators |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.11: Task Handle validation results of operations on the register of economic operators

Event Refusal message sent to the MSA Central Services since the operations on the register of economic operators had been found invalid

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Refusal message sent to the MSA Central Services since the operations on the register of economic operators had been found invalid |
| Event Type | End event |
| Description | Refusal message (IE917/IE714) sent to the MSA Central Services since the operations on the register of economic operators had been found invalid. |
| Previous Objects | What is the outcome of handling the validation results? |

Table 5.12: Event Refusal message sent to the MSA Central Services since the operations on the register of economic operators had been found invalid

Event Operations of the register of economic operators recorded

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Operations of the register of economic operators recorded |
| Event Type | Conditional intermediate event |
| Description | The Operations on the Register of Economic Operators message (IE713) was recorded since it had been found valid and the process continues. |
| Previous Objects | What is the outcome of handling the validation results? |

Table 5.13: Event Operations of the register of economic operators recorded

Task Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators |
| Task Type | Service task |
| Description | SEED identifies whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators (IE713). |
| Actor | SEED |
| Input Data | C_QRO_DAT |
| Output Data | Result Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators |
| Previous Objects | Operations of the register of economic operators recorded |
| Information Exchange | |
| Requirements | RAD_FUR_0001 |
| Data Set | |
| Events | |
| State | |

Table 5.14: Task Identify whether there are any MSAs that are registered to receive disseminations of the Operations on the Register of Economic Operators

Task Forward notifications of modifications to national registers

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|--|
| Task Name | Forward notifications of modifications to national registers |
| Task Type | Call activity (collapsed) |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|---|
| Description | This task is modeled in a separate process: L4-RADM-AS-IS-01-03-Dissemination of registration data. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Are there any MSAs that are registered to receive disseminations on Operations on the Register of Economic Operators? |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.15: Task Forward notifications of modifications to national registers

Event SEED data modified and updates disseminated

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | SEED data modified and updates disseminated |
| Event Type | End event |
| Description | SEED data is modified (since the updates related to the Economic Operators are integrated to the central SEED repository) and the updates are disseminated to the Member States that are registered for receiving IE713 disseminations |
| Previous Objects | Forward notifications of modifications to national registers |

Table 5.16: Event SEED data modified and updates disseminated

Event SEED data modified and updates not disseminated

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | SEED data modified and updates not disseminated |
| Event Type | End event |
| Description | SEED data is modified since the updates related to the Economic Operators are integrated to the central SEED repository |
| Previous Objects | Are there any MSAs that are registered to receive disseminations on Operations on the Register of Economic Operators? |

Table 5.17: Event SEED data modified and updates not disseminated

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.3. Process L4-RADM-01-02-Consultation of registration data by MSA central services

5.3.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the consultation of registration data by MSA central services, in accordance with the current Common Specifications (FESS and DDNEA).

The current process is triggered when SEED at Common Domain Central Services receives a Common Request message (IE701) from a MSA (MSA Central Services), indicating a request for re-synchronisation of the register of economic operators (Request Type is "5: Request for re-synchronisation of the register of economic operators").

After receiving the Common Request message, IE701 (indicating a request for re-synchronisation of the register of economic operators), SEED at Common Domain Central Services validates its data by using the "L4-RADM-01-07-Perform validation of Common Domain message" sub process. Then, SEED proceeds with the handling of the validation results by using the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity. Depending on the outcome (end event) of the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity, the following may happen:

- a. If a refusal message (IE917/IE702) is sent to the MSA Central Services (since the Common Request message was found invalid), the whole process ends at this point;
- b. If the Common Request message (IE701) is recorded (since it was found valid), the process continues.

Following, SEED builds an Operations on the Register of Economic Operators message, IE713 (containing the updates of the SEED data requested by the concerned MSA) and stores it. Then, SEED notifies the concerned MSA Central Services of the Operations on the Register of Economic Operators message (IE713) and the whole process ends.

5.3.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RADM-01-02 |
| Full Name | Consultation of registration data by MSA central services |
| Assumptions | N/A |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-02-Request extract for Central ELO or liaison department not registered to receive notifications of modifications |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.18: Process Details

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.3.3. Tasks and Events

Event Common Request for re-synchronisation of the register of economic operators received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Request for re-synchronisation of the register of economic operators received |
| Event Type | Message start event |
| Description | Common Request message (IE701) indicating a request for re-synchronisation of the register of economic operators (Request Type is "5: Request for re-synchronisation of the register of economic operators") is received. This shows that the concerned MSA requests from the Common Domain Central Services all or part of the update information in order to obtain an up-to-date SEED database. |
| Previous Objects | MSA Central Services |

Table 5.19: Event Common Request for re-synchronisation of the register of economic operators received

Task Perform validation of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|--|
| Task Name | Perform validation of Common Request |
| Task Type | Subprocess (collapsed) |
| Description | This task is modeled in a separate process: L4-RADM-01-07-Perform validation of Common Domain message. |
| Actor | SEED |
| Appears also in the following processes | L4-RADM-01-06-SEED statistics |
| Input Data | |
| Output Data | |
| Previous Objects | Common Request for re-synchronisation of the register of economic operators received |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.20: Task Perform validation of Common Request

Task Handle validation results of common request

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Handle validation results of common request |
| Task Type | Call activity (collapsed) |
| Description | This task is modeled in a separate process: L4-RADM-01-08-Handle validation Results of Common Domain message. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Perform validation of Common Request |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.21: Task Handle validation results of common request

Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|---|---|
| Event Name | Refusal message sent to the MSA Central Services since the Common Request had been found invalid |
| Event Type | End event |
| Description | Refusal message (IE917/IE702) sent to the MSA Central Services since the Common Request (IE701) had been found invalid. |
| Appears also in the following processes | L4-RADM-01-06-SEED statistics |
| Previous Objects | What is the outcome of handling the validation results |

Table 5.22: Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

Event Common Request recorded

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Request recorded |
| Event Type | Conditional intermediate event |
| Description | The Common Request message (IE701) was recorded since it had been found valid and the process continues. |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Previous Objects | What is the outcome of handling the validation results |
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Table 5.23: Event Common Request recorded

Task Build Operations on the Register of Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Build Operations on the Register of Economic Operators |
| Task Type | Service task |
| Description | SEED builds an Operations on the Register of Economic Operators message (IE713) containing the updates of the SEED data requested by the concerned MSA. |
| Actor | SEED |
| Input Data | ATTRIBUTES for IE701 |
| Output Data | C_QRO_DAT |
| Previous Objects | Common Request recorded |
| Information Exchange | |
| Requirements | RAD_FUR_0006 |
| Data Set | |
| Events | |
| State | |

Table 5.24: Task Build Operations on the Register of Economic Operators

Task Record Operations on the Register of Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Record Operations on the Register of Economic Operators |
| Task Type | Service task |
| Description | The Operations on the Register of Economic Operators (IE713) is stored. |
| Actor | SEED |
| Input Data | C_QRO_DAT |
| Output Data | C_QRO_DAT |
| Previous Objects | Build Operations on the Register of Economic Operators |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Information Exchange | |
| Requirements | RAD_FUR_0007 |
| Data Set | |
| Events | |
| State | |

Table 5.25: Task Record Operations on the Register of Economic Operators

Task Notify MSA Central Services of Operations on the Register of Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Notify MSA Central Services of Operations on the Register of Economic Operators |
| Task Type | Send task |
| Description | SEED notifies the concerned MSA Central Services of the Operations on the Register of Economic Operators message (IE713). |
| Actor | SEED |
| Input Data | C_QRO_DAT |
| Output Data | |
| Previous Objects | Record Operations on the Register of Economic Operators |
| Information Exchange | operations on the register of economic operators |
| Requirements | RAD_FUR_0008 |
| Data Set | |
| Events | |
| State | |

Table 5.26: Task Notify MSA Central Services of Operations on the Register of Economic Operators

Event Updates of SEED Data made available to the concerned MSA

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Updates of SEED Data made available to the concerned MSA |
| Event Type | End event |
| Description | The requested updates of SEED Data (Operations on the Register of Economic Operators message, IE713) have been made available to the concerned MSA. |
| Previous Objects | Notify MSA Central Services of Operations on the Register of Economic |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | Operators |
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Table 5.27: Event Updates of SEED Data made available to the concerned MSA

5.4. Process L4-RADM-01-03-Dissemination of registration data

5.4.1. Objective of Process

The purpose of this process is to describe the electronic flow of the dissemination of registration data to all Member States that are registered to receive IE713 disseminations, in accordance with the current Common Specifications (FESS and DDNEA).

The process is triggered when Operations on the register of economic operators message (IE713) is recorded in SEED (SEED data is modified). After receiving a valid notification of modification from a MSA (IE713), the Common Domain sends back to all Member States, that are registered for receiving registration data disseminations, the updates of the register, as soon as they are integrated to the central SEED repository (IE713). It shall be noted that the disseminated updates of the register include only these updates submitted via the specific notification of modification, hence they do not include consolidated updates submitted previously by the MSAs.

5.4.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RADM-01-03 |
| Full Name | Dissemination of registration data |
| Assumptions | <p>The following notes are applicable for this process:</p> <ol style="list-style-type: none"> 1. According to FESS (Sub-section “4.2.3 General conditions” of “4.2 Dissemination of registration data (UC1.15)”), upon integration of any updates submitted by the MSAs to the central SEED repository or upon an explicit request, the MSA central services receive a signal for update of the registration data in a particular Member State or in a group of Member States; 2. According to DDNEA (see Sub-section “V.I.3.1.2 Dissemination of SEED data (UC1.14)” of DDNEA), after receiving a valid IE713 from a MSA, SEED disseminates this valid IE713 to all MSAs that opted for receiving IE713 disseminations. This is also highlighted in FESS Section II (see EBP UC-115-110 “Disseminate changes”), where it is clarified that the Common Domain central services disseminates the current update (IE713:C_QRO_DAT) to all MSAs that are registered for receiving registration data disseminations, or send a notification of available updates. |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-03-Forward notifications of modifications to national registers |
| Existing Specifications | Design Document for National |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | Excise Applications - v3.02 |
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Table 5.28: Process Details

5.4.3. Tasks and Events

Event Operations on the register of economic operators recorded

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Operations on the register of economic operators recorded |
| Event Type | Start event |
| Description | Operations on the register of economic operators message (IE713) is recorded in SEED (SEED data is modified). |
| Previous Objects | |

Table 5.29: Event Operations on the register of economic operators recorded

Task Notify the MSA Central Services of the Operations on the Register of Economic Operators

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Notify the MSA Central Services of the Operations on the Register of Economic Operators |
| Task Type | Send task |
| Description | SEED notifies all the MSA Central Services, that are registered to receive IE713 disseminations, of the Operations on the Register of Economic Operators message (IE713). |
| Actor | SEED |
| Input Data | C_QRO_DAT |
| Output Data | |
| Previous Objects | Operations on the register of economic operators recorded |
| Information Exchange | operations on the register of economic operators |
| Requirements | RAD_FUR_0002 |
| Data Set | |
| Events | |
| State | |

Table 5.30: Task Notify the MSA Central Services of the Operations on the Register of Economic Operators

Event The updates related to the Economic Operators disseminated to the Member States

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|-----------------------|
|----------------------|-----------------------|

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Event Name | The updates related to the Economic Operators disseminated to the Member States |
| Event Type | End event |
| Description | The updates related to the Economic Operators (IE713) are disseminated to all Member States that are registered to receive IE713 disseminations. |
| Previous Objects | Notify the MSA Central Services of the Operations on the Register of Economic Operators |

Table 5.31: Event The updates related to the Economic Operators disseminated to the Member States

5.5. Process L4-RADM-01-05-Consultation of registration information by Economic Operators

5.5.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of Consultation of registration information by Economic Operators, in accordance with the current Common Specifications (FESS) (*).

The process is triggered when the Requestor (**) decides to verify that a given Excise number is valid for the current date. For this purpose, the Requestor registers the request for verifying an Excise Number to SEED-on-Europa site. SEED-on-EUROPA site records the request for verifying an Excise Number and then proceeds with identifying whether the Excise Number contained in the request exists in the system:

- In case the Excise Number does not exist in the system, the Requestor is informed of the answer “No” and the process ends here;
- In case the Excise Number exists in the system, the process continues.

Following, SEED-on-EUROPA site identifies whether the Excise Number contained in the request is valid for the current date:

- In case the Excise Number is not valid for the current date, the Requestor is informed of the answer “No” and the process ends at this point;
- In case the Excise Number is valid for the current date, the Requestor is informed of the answer “Yes” completed by a list of the excise products, excise product descriptions and operator type (Authorized Warehouse Keeper, Registered Consignor, Registered Consignee, Tax Warehouse or Temporary Authorisation) and the whole process ends.

(*) The consultation of registration information by economic operators (via SEED-on-EUROPA) is described in FESS Section III Sub-Section “4.4 Consultation of registration information by economic operators (UC1.30)”, but currently it is not mentioned in DDNEA (A relevant corrective action shall be taken in the Common Specifications as per the ITSM incident IM176185.);

(**)Although SEED-on-EUROPA site is intended for use by economic operators, the EUROPA portal is a public site that can be accessed by any Internet users.

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.5.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RADM-01-05 |
| Full Name | Consultation of registration information by Economic Operators |
| Assumptions | <ul style="list-style-type: none"> The preparation of an extract from the Central Register of all active records and the relative communication with SEED-on-EUROPA is already part of CA SEED specifications. The legal requirement (Commission Implementing Regulation (EU) No 612/2013 (Article 6 (1)) has been covered through the creation of "L3-RADM-01-04-Prepare an extract from the Central Register of all active records" model; The consultation of registration information by economic operators (via SEED-on-EUROPA) is described in FESS Section III Sub-Section "4.4 Consultation of registration information by economic operators (UC1.30)". |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-05-Access and Consultation of the Central Register by Economic Operators |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.32: Process Details

5.5.3. Tasks and Events

Event The Requestor decides to verify that a given Excise number is valid for the current date

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | The Requestor decides to verify that a given Excise number is valid for the current date |
| Event Type | Start event |
| Description | The Requestor decides to verify that a given Excise number is valid for the current date. |
| Previous Objects | |

Table 5.33: Event The Requestor decides to verify that a given Excise number is valid for the current date

Task Register request for verifying an Excise Number

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Register request for verifying an Excise Number |
| Task Type | User task |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|--|
| Description | The Requestor registers the request for verifying an Excise Number to SEED-on-Europa site. |
| Actor | Requestor |
| Input Data | Trader Excise Number Tax Warehouse Reference Temporary Authorisation Reference |
| Output Data | Temporary Authorisation Reference Tax Warehouse Reference Trader Excise Number |
| Previous Objects | The Requestor decides to verify that a given Excise number is valid for the current date |
| Information Exchange | |
| Requirements | RAD_FUR_0016 |
| Data Set | |
| Events | |
| State | |

Table 5.34: Task Register request for verifying an Excise Number

Task Record request for verifying an Excise Number

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Record request for verifying an Excise Number |
| Task Type | Service task |
| Description | SEED-on-EUROPA site record the request for verifying an Excise Number. |
| Actor | SEED-on-Europa site |
| Input Data | Tax Warehouse Reference Temporary Authorisation Reference Trader Excise Number |
| Output Data | Tax Warehouse Reference Temporary Authorisation Reference Trader Excise Number |
| Previous Objects | Register request for verifying an Excise Number |
| Information Exchange | |
| Requirements | RAD_FUR_0017 |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Data Set | |
| Events | |
| State | |

Table 5.35: Task Record request for verifying an Excise Number

Task Identify whether the Excise Number exists

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Identify whether the Excise Number exists |
| Task Type | Service task |
| Description | SEED-on-EUROPA identifies whether the Excise Number contained in the request exists in the system. |
| Actor | SEED-on-Europa site |
| Input Data | Tax Warehouse Reference Trader Excise Number Temporary Authorisation Reference |
| Output Data | Result Identify whether the Excise Number exists |
| Previous Objects | Record request for verifying an Excise Number |
| Information Exchange | |
| Requirements | RAD_FUR_0019 |
| Data Set | |
| Events | |
| State | |

Table 5.36: Task Identify whether the Excise Number exists

Task Acknowledge answer no

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Acknowledge answer no |
| Task Type | User task |
| Description | The Requestor is informed of the answer “No” (since the provided Excise Number does not exist in the system). |
| Actor | Requestor |
| Input Data | Result Identify whether the Excise Number exists |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|--|
| Output Data | Result Identify whether the Excise Number exists |
| Previous Objects | Does the Excise Number exist? |
| Information Exchange | |
| Requirements | RAD_FUR_0032 |
| Data Set | |
| Events | |
| State | |

Table 5.37: Task Acknowledge answer no

Event Response indicating "no" received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Response indicating "no" received |
| Event Type | End event |
| Description | The Requestor receives the response indicating "no" (since the provided Excise Number does not exist in the system). |
| Previous Objects | Acknowledge answer no |

Table 5.38: Event Response indicating "no" received

Task Identify whether the Excise Number is valid for the current date

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|--|
| Task Name | Identify whether the Excise Number is valid for the current date |
| Task Type | Service task |
| Description | SEED-on-EUROPA identifies whether the Excise Number contained in the request is valid for the current date. |
| Actor | SEED-on-Europa site |
| Input Data | Authorisation End Date Validity End Date Temporary Authorisation Reference Trader Excise Number Validity Begin Date Date of Expiry Tax Warehouse Reference Authorisation Start Date |
| Output Data | Result Identify if the Excise Number is valid for the current date |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Previous Objects | Does the Excise Number exist? |
| Information Exchange | |
| Requirements | RAD_FUR_0031 |
| Data Set | |
| Events | |
| State | |

Table 5.39: Task Identify whether the Excise Number is valid for the current date

Task Acknowledge answer no

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Acknowledge answer no |
| Task Type | User task |
| Description | The Requestor is informed of the answer “No” (since the provided Excise Number is not valid for the current date). |
| Actor | Requestor |
| Input Data | Result Identify if the Excise Number is valid for the current date |
| Output Data | Result Identify if the Excise Number is valid for the current date |
| Previous Objects | Is the Excise Number valid for the current date? |
| Information Exchange | |
| Requirements | RAD_FUR_0022 |
| Data Set | |
| Events | |
| State | |

Table 5.40: Task Acknowledge answer no

Event Response indicating "no" received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Response indicating "no" received |
| Event Type | End event |
| Description | The Requestor receives the response indicating "no" (since the provided Excise Number is not valid for the current date). |
| Previous Objects | Acknowledge answer no |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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Table 5.41: Event Response indicating "no" received

Task Acknowledge answer yes along with key details of excise authorisation

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Acknowledge answer yes along with key details of excise authorisation |
| Task Type | User task |
| Description | The Requestor is informed of the answer “Yes” completed by a list of the excise products, excise product descriptions, operator type (Authorized Warehouse Keeper, Registered Consignor, Registered Consignee, Tax Warehouse or Temporary Authorisation) and the flag indicating if a Registered Consignee or Authorised warehouse keeper is allowed to practice direct delivery. |
| Actor | Requestor |
| Input Data | Result Identify if the Excise Number is valid for the current date Result Identify whether the Excise Number exists |
| Output Data | Result Identify if the Excise Number is valid for the current date OPERATOR ROLE Code Result Identify whether the Excise Number exists Operator Type Code EXCISE PRODUCT Code |
| Previous Objects | Is the Excise Number valid for the current date? |
| Information Exchange | |
| Requirements | RAD_FUR_0027 |
| Data Set | |
| Events | |
| State | |

Table 5.42: Task Acknowledge answer yes along with key details of excise authorisation

Event Response indicating "yes" and key details of excise authorisation received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Response indicating "yes" and key details of excise authorisation received |
| Event Type | End event |
| Description | The Requestor receives the response indicating "yes" along with the key details of the excise authorisation (since the provided Excise Number exists |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | in the system and it is valid for the current date). |
| Previous Objects | Acknowledge answer yes along with key details of excise authorisation |

Table 5.43: Event Response indicating "yes" and key details of excise authorisation received

5.6. Process L4-RADM-01-06-SEED statistics

5.6.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the request of SEED statistics by MSA central services, in accordance with the current Common Specifications (FESS and DDNEA).

The current process is triggered when SEED at Common Domain Central Services receives a Common Request message (IE701) from a MSA (MSA Central Services), indicating a request for SEED statistics (Request Type is "7: Request for SEED statistics").

After receiving the Common Request message, IE701 (indicating a request for SEED statistics), SEED at Common Domain Central Services validates its data by using the "L4-RADM-01-07-Perform validation of Common Domain message" sub process. Then, SEED proceeds with the handling of the validation results by using the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity. Depending on the outcome (end event) of the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity, the following may happen:

- If a refusal message (IE917/IE702) is sent to the MSA Central Services (since the Common Request message was found invalid), the whole process ends at this point;
- If the Common Request message (IE701) is recorded (since it was found valid), the process continues.

Following, SEED builds a SEED statistics message, IE742 (containing the requested statistical data for the Member States, the type of statistics and the period specified in the corresponding request message IE701) and stores it. Then, SEED notifies the concerned MSA Central Services of the SEED Statistics message (IE742) and the whole process ends.

5.6.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|---|
| Process ID | L4-RADM-01-06 |
| Full Name | SEED statistics |
| Assumptions | N/A |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-08-Request specific statistical report |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Table 5.44: Process Details

5.6.3. Tasks and Events

Event Common Request for SEED statistics received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Request for SEED statistics received |
| Event Type | Message start event |
| Description | Common Request message (IE701) indicating a request for SEED statistics (Request Type is "7: Request for SEED statistics") is received. |
| Previous Objects | MSA Central Services |

Table 5.45: Event Common Request for SEED statistics received

Task Perform validation of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|--|
| Task Name | Perform validation of Common Request |
| Task Type | Subprocess (collapsed) |
| Description | This task is modeled in a separate process: L4-RADM-01-07-Perform validation of Common Domain message. |
| Actor | SEED |
| Appears also in the following processes | L4-RADM-01-02-Consultation of registration data by MSA central services |
| Input Data | |
| Output Data | |
| Previous Objects | Common Request for SEED statistics received |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.46: Task Perform validation of Common Request

Task Handle validation results of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Handle validation results of Common Request |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|---|
| Task Type | Call activity (collapsed) |
| Description | This task is modeled in a separate process: L4-RADM-01-08-Handle validation Results of Common Domain message. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Perform validation of Common Request |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.47: Task Handle validation results of Common Request

Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|---|---|
| Event Name | Refusal message sent to the MSA Central Services since the Common Request had been found invalid |
| Event Type | End event |
| Description | Refusal message (IE917/IE702) sent to the MSA Central Services since the Common Request (IE701) had been found invalid. |
| Appears also in the following processes | L4-RADM-01-02-Consultation of registration data by MSA central services |
| Previous Objects | What is the outcome of handling the validation results |

Table 5.48: Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

Event Common Request recorded

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Request recorded |
| Event Type | Conditional intermediate event |
| Description | The Common Request message (IE701) was recorded since it had been found valid and the process continues. |
| Previous Objects | What is the outcome of handling the validation results |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Table 5.49: Event Common Request recorded

Task Build SEED Statistics

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Build SEED Statistics |
| Task Type | Service task |
| Description | SEED builds a SEED Statistics message (IE742) containing the requested statistical data for the Member States, the type of statistics and the period specified in the corresponding request message (IE701) |
| Actor | SEED |
| Input Data | STA_REQUEST STA_PERIOD ATTRIBUTES for IE701 |
| Output Data | C_STA_VAL |
| Previous Objects | Common Request recorded |
| Information Exchange | |
| Requirements | RAD_FUR_0003 |
| Data Set | |
| Events | |
| State | |

Table 5.50: Task Build SEED Statistics

Task Record SEED Statistics

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Record SEED Statistics |
| Task Type | Service task |
| Description | The SEED Statistics message (IE742) is stored. |
| Actor | SEED |
| Input Data | C_STA_VAL |
| Output Data | C_STA_VAL |
| Previous Objects | Build SEED Statistics |
| Information Exchange | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Requirements | RAD_FUR_0004 |
| Data Set | |
| Events | |
| State | |

Table 5.51: Task Record SEED Statistics

Task Notify MSA Central Services of SEED Statistics

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Notify MSA Central Services of SEED Statistics |
| Task Type | Send task |
| Description | SEED notifies the MSA Central Services of the SEED Statistics message (IE742). |
| Actor | SEED |
| Input Data | C_STA_VAL |
| Output Data | |
| Previous Objects | Record SEED Statistics |
| Information Exchange | SEED statistics |
| Requirements | RAD_FUR_0005 |
| Data Set | |
| Events | |
| State | |

Table 5.52: Task Notify MSA Central Services of SEED Statistics

Event SEED Statistics made available to the concerned MSA

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | SEED Statistics made available to the concerned MSA |
| Event Type | End event |
| Description | The requested SEED Statistics (IE742) have been made available to the concerned MSA. |
| Previous Objects | Notify MSA Central Services of SEED Statistics |

Table 5.53: Event SEED Statistics made available to the concerned MSA

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.7. Process L4-RADM-01-08-Handle validation Results of Common Domain message

5.7.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the handling of the validation results of a message received over the Common Domain, in accordance with the current Common Specifications (FESS and DDNEA).

The process is triggered when a message received over the Common Domain is validated by SEED and the validation results are available. Depending on the validation result the following may happen:

- a. If the Common Domain message was found invalid due to Syntactic violation(s), SEED at Common Domain Central Services builds a Negative Acknowledgement of XML Receipt refusal message (IE917) and then it records it. Following, SEED at the Common Domain Central Services notifies MSA Central Services of the Negative Acknowledgement of XML Receipt refusal message (IE917) and the whole process ends at this point;
- b. If the Common Domain message was found invalid due to Coordination Protocol and/or Business Compliance violation(s), SEED at the Common Domain Central Services identifies whether the Common Domain message is an Operations on the register of economic operators (IE713) or a Common request (IE701):
 - In case the Common Domain message is an Operations on the register of economic operators (IE713), SEED builds a Refusal of Update of Economic Operators message (IE714) and then it records it. Following, SEED notifies the MSA Central Services of the Refusal of Update of Economic Operators message (IE714) and the whole process ends here;
 - In case the Common Domain message is a Common request (IE701), SEED builds a Refusal of Common Request message (IE702) and then it records it. Following, SEED notifies the MSA Central Services of the Refusal of Common Request message (IE702) and the whole process ends at this point.
- c. If the Common Domain message was found valid, SEED at the Common Domain Central Services records the valid message and the whole process ends.

5.7.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RADM-01-08 |
| Full Name | Handle validation Results of Common Domain message |
| Assumptions | N/A |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-01-Maintenance of the Central Register |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.54: Process Details

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.7.3. Tasks and Events

Event Common Domain message validated and results are available

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Domain message validated and results are available |
| Event Type | Start event |
| Description | The validation mechanism has processed the Common Domain message and produced validation results. The current process starts when the validation results are available to be handled. |
| Previous Objects | |

Table 5.55: Event Common Domain message validated and results are available

Task Build Negative Acknowledgement of XML Receipt refusal message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Build Negative Acknowledgement of XML Receipt refusal message |
| Task Type | Service task |
| Description | If the message is found invalid due to Syntactic violation(s), SEED builds a Negative Acknowledgement of XML Receipt refusal message (IE917). |
| Actor | SEED |
| Input Data | Result Identify if the Common Domain message is syntactically valid |
| Output Data | |
| Previous Objects | What is the Common Domain validation result? |
| Information Exchange | Negative Acknowledgement of XML Receipt message common request operations on the register of economic operators |
| Requirements | RAD_FUR_0013 |
| Data Set | |
| Events | |
| State | |

Table 5.56: Task Build Negative Acknowledgement of XML Receipt refusal message

Task Record valid message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|----------------------|
| Task Name | Record valid message |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|---|
| Task Type | Service task |
| Description | The valid message is stored. |
| Actor | SEED |
| Input Data | Result Identify if the Common Domain message passed Business Compliance validation successfully Result Identify if the Common Domain message is syntactically valid Result Identify if the Common Domain message passed Coordination Protocol validation successfully |
| Output Data | |
| Previous Objects | What is the Common Domain validation result? |
| Information Exchange | common request common request operations on the register of economic operators operations on the register of economic operators |
| Requirements | RAD_FUR_0020 |
| Data Set | |
| Events | |
| State | |

Table 5.57: Task Record valid message

Task Record Negative Acknowledgement of XML Receipt refusal message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Record Negative Acknowledgement of XML Receipt refusal message |
| Task Type | Service task |
| Description | The Negative Acknowledgement of XML Receipt refusal message (IE917) is stored. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Build Negative Acknowledgement of XML Receipt refusal message |
| Information Exchange | Negative Acknowledgement of XML Receipt message Negative Acknowledgement of XML Receipt message |
| Requirements | RAD_FUR_0015 |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Data Set | |
| Events | |
| State | |

Table 5.58: Task Record Negative Acknowledgement of XML Receipt refusal message

Event Message recorded

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--------------------------------|
| Event Name | Message recorded |
| Event Type | End event |
| Description | The valid message is recorded. |
| Previous Objects | Record valid message |

Table 5.59: Event Message recorded

Task Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message |
| Task Type | Service task |
| Description | SEED identifies whether the Common Domain message is an Operations on the register of economic operators (IE713) or a Common request (IE701). |
| Actor | SEED |
| Input Data | Result Identify if the Common Domain message passed Coordination Protocol validation successfully Result Identify if the Common Domain message is syntactically valid |
| Output Data | Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message |
| Previous Objects | What is the Common Domain validation result? |
| Information Exchange | operations on the register of economic operators common request |
| Requirements | RAD_FUR_0021 |
| Data Set | |
| Events | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|-------|--|
| State | |
|-------|--|

Table 5.60: Task Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message

Task Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message |
| Task Type | Send task |
| Description | SEED notifies the Economic Operator of the Negative Acknowledgement of XML Receipt refusal message (IE917). |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Record Negative Acknowledgement of XML Receipt refusal message |
| Information Exchange | Negative Acknowledgement of XML Receipt message Negative Acknowledgement of XML Receipt message |
| Requirements | RAD_FUR_0018 |
| Data Set | |
| Events | |
| State | |

Table 5.61: Task Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message

Task Build Refusal of Update of Economic Operators message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Build Refusal of Update of Economic Operators message |
| Task Type | Service task |
| Description | If the received Operations on the Register of Economic Operators message (IE713) is found invalid due to Business Compliance violation(s), SEED builds a Refusal of Update of Economic Operators message (IE714). |
| Actor | SEED |
| Input Data | Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message |
| Output Data | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|--|
| Previous Objects | Is the received Common Domain message an Operations on the Register of Economic Operators or a Common Request? |
| Information Exchange | refusal of update of economic operators operations on the register of economic operators |
| Requirements | RAD_FUR_0024 |
| Data Set | |
| Events | |
| State | |

Table 5.62: Task Build Refusal of Update of Economic Operators message

Event Negative Acknowledgement of XML Receipt refusal message sent to MSA Central Services

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Negative Acknowledgement of XML Receipt refusal message sent to MSA Central Services |
| Event Type | End event |
| Description | Negative Acknowledgement of XML Receipt refusal message (IE917) sent to MSA Central Services. |
| Previous Objects | Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message |

Table 5.63: Event Negative Acknowledgement of XML Receipt refusal message sent to MSA Central Services

Task Build Refusal of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Build Refusal of Common Request |
| Task Type | Service task |
| Description | If the received Common Request message (IE701) is found invalid due to Business Compliance violation(s), SEED builds a Refusal of Common Request message (IE702). |
| Actor | SEED |
| Input Data | Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message |
| Output Data | |
| Previous Objects | Is the received Common Domain message an Operations on the Register of Economic Operators or a Common Request? |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|---|
| Information Exchange | common request refusal of common request |
| Requirements | RAD_FUR_0023 |
| Data Set | |
| Events | |
| State | |

Table 5.64: Task Build Refusal of Common Request

Task Record Refusal of Update of Economic Operators message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Record Refusal of Update of Economic Operators message |
| Task Type | Service task |
| Description | The Refusal of Update of Economic Operators message (IE714) is stored. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Build Refusal of Update of Economic Operators message |
| Information Exchange | refusal of update of economic operators refusal of update of economic operators |
| Requirements | RAD_FUR_0029 |
| Data Set | |
| Events | |
| State | |

Table 5.65: Task Record Refusal of Update of Economic Operators message

Task Record Refusal of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|--|
| Task Name | Record Refusal of Common Request |
| Task Type | Service task |
| Description | The Refusal of Common Request message (IE702) is stored. |
| Actor | SEED |
| Input Data | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|--|
| Output Data | |
| Previous Objects | Build Refusal of Common Request |
| Information Exchange | refusal of common request refusal of common request |
| Requirements | RAD_FUR_0026 |
| Data Set | |
| Events | |
| State | |

Table 5.66: Task Record Refusal of Common Request

Task Notify MSA Central Services of Refusal of Update of Economic Operators Message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Notify MSA Central Services of Refusal of Update of Economic Operators Message |
| Task Type | Send task |
| Description | SEED notifies the MSA Central Services of the Refusal of Update of Economic Operators message (IE714). |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Record Refusal of Update of Economic Operators message |
| Information Exchange | refusal of update of economic operators refusal of update of economic operators |
| Requirements | RAD_FUR_0030 |
| Data Set | |
| Events | |
| State | |

Table 5.67: Task Notify MSA Central Services of Refusal of Update of Economic Operators Message

Task Notify MSA Central Services of Refusal of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|--|
| Task Name | Notify MSA Central Services of Refusal of Common Request |

| |
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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|--|
| Task Type | Send task |
| Description | SEED notifies the MSA Central Services of the Refusal of Common Request message (IE702). |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Record Refusal of Common Request |
| Information Exchange | refusal of common request refusal of common request |
| Requirements | RAD_FUR_0028 |
| Data Set | |
| Events | |
| State | |

Table 5.68: Task Notify MSA Central Services of Refusal of Common Request

Event Refusal of Update of Economic Operators sent to MSA Central Services

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Refusal of Update of Economic Operators sent to MSA Central Services |
| Event Type | End event |
| Description | Refusal of Update of Economic Operators (IE714) sent to MSA Central Services. |
| Previous Objects | Notify MSA Central Services of Refusal of Update of Economic Operators Message |

Table 5.69: Event Refusal of Update of Economic Operators sent to MSA Central Services

Event Refusal of Common Request sent to MSA Central Services

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Refusal of Common Request sent to MSA Central Services |
| Event Type | End event |
| Description | Refusal of Common Request (IE702) sent to MSA Central Services. |
| Previous Objects | Notify MSA Central Services of Refusal of Common Request |

Table 5.70: Event Refusal of Common Request sent to MSA Central Services

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.8. Process L4-RDM-01-00-Reference Data Management Master Process

5.8.1. Objective of Process

The purpose of this diagram is to present in one diagram the main flow concerning Reference Data Management. This diagram mainly focuses on the successful path. For more details please check the respective L4 BPMN diagrams.

5.8.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|--|
| Process ID | L4-RDM-01-00 |
| Full Name | Reference Data Management Master Process |
| Assumptions | <p>1. The Excise Office List (EOL) is maintained conjointly with the Customs Office List (COL) by NCTS CS/RD. The NCTS CS/RD application offers the functionality of managing the data of those offices (maintenance, download, updates, and etc.).</p> <p>2. According to DDNEA (Sub-section “V.I.2.1 Introduction” of “V.I.2 Exchange of Reference Data” in DDNEA v1.91), changes to the EMCS Reference Data are disseminated by SEED to each MSA according to their dissemination profile preferences. This is also in alignment with the current system behaviour, i.e. the IE734 is disseminated to the MSAs that are registered for receiving IE734 disseminations. However, in FESS (EBP UC-105-110 “Send reference data” of FESS v3.81 Section III), it is not clarified that, in the aforementioned scenario, SEED sends the IE734 only to the MSAs who are registered to receive IE734 disseminations.</p> |
| Constraints | N/A |
| L3 Reference Models | N/A |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.71: Process Details

5.8.3. Tasks and Events

Event Reference Data to be updated and made available

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Reference Data to be updated and made available |
| Event Type | Start event |
| Description | |
| Previous Objects | |

Table 5.72: Event Reference Data to be updated and made available

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Task Maintenance and dissemination of reference data other than the EOL

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Maintenance and dissemination of reference data other than the EOL |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Reference Data to be updated and made available |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.73: Task Maintenance and dissemination of reference data other than the EOL

Task Consultation of other reference data by MSA central services

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Consultation of other reference data by MSA central services |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Does MSA decide to request reference data modifications applied to Central Reference Database? |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.74: Task Consultation of other reference data by MSA central services

Task Consultation of public reference data by economic operators

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Consultation of public reference data by economic operators |
| Task Type | Call activity (collapsed) |
| Description | |
| Actor | Excise Authority |
| Input Data | |
| Output Data | |
| Previous Objects | Does economic operator decide to consult public reference data? |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.75: Task Consultation of public reference data by economic operators

Event Reference data is up-to-date

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Reference data is up-to-date |
| Event Type | End event |
| Description | |
| Previous Objects | Does economic operator decide to consult public reference data? Consultation of public reference data by economic operators |

Table 5.76: Event Reference data is up-to-date

5.9. Process L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL

5.9.1. Objective of Process

The purpose of this process is to depict how reference data (except for the Excise Office List - ELO) is maintained by the Common Domain Central Services and disseminated to the Member State Administrations (MSA). The concerned reference data comprises:

- a list of codes to be used in identified fields of the information exchanges throughout EMCS, such as country codes, transport codes, language codes, and etc.;
- a set of common system parameters (durations, numbers and codes that are set as committing limits for all Member States in some business cases, typically, a maximum time limit that an MSA is forbidden to exceed but is allowed to shorten, or the list of categories of goods allowed at splitting).

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Reference data is maintained in the Common Domain. The Common Domain Central Services are responsible for updating the reference data. Following the instructions of the Commission, a responsible official in the Common Domain Central Services registers the modifications of the reference data in SEED. Those modifications can be the creation, update or invalidation of a specific record in the reference data. SEED records the reference data modifications.

Once the Common Domain Central Services have a set of reference data updates, this set can be disseminated to the Member States with the IE734 message (upon a pre-defined scheduling or upon an explicit request). The IE734 message 'Operations on the reference database' is disseminated to those Member States, which have explicitly asked for such disseminations via CCN in their profiles on SEED. The dissemination of reference data should be completed in advance, before the data contained in the IE734 message becomes applicable according to the indicated validity dates. The Common Domain Central Services (SEED) send the IE734 message containing the modifications since the last execution to all the MSAs that have not opted out of receiving reference data updates via CCN/CSI.

The reference data update message (IE734:C_RDD_DAT) groups the changes that concern the creation, update or invalidation of a specific reference data record. These changes have to be applied by the MSAs. The IE734:C_RDD_DAT message, which is disseminated to the MSAs, is composed of one or several of the following messages:

- IE732: C_COD_DAT (common list of codes)
- IE709: C_PAR_DAT (common system parameters)

Once the updates of the reference data has been disseminated to the MSA Central Services, the process ends.

5.9.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|------------------------|---|
| Process ID | L4-RDM-01-01 |
| Full Name | Maintenance and dissemination of reference data other than the EOL |
| Assumptions | <p>1. This process depicts only the maintenance (as described in the FESS UC1.04) and dissemination (as described in the FESS UC1.05) of reference data other than the EOL.</p> <p>The Excise Office List (EOL) is maintained conjointly with the Customs Office List (COL) by NCTS CS/RD. The NCTS CS/RD application offers the functionality of managing the data of those offices (maintenance, download, updates, and etc.).</p> <p>2. According to DDNEA (Sub-section "V.I.2.1 Introduction" of "V.I.2 Exchange of Reference Data" in DDNEA v1.91), changes to the EMCS Reference Data are disseminated by SEED to each MSA according to their dissemination profile preferences. This is also in alignment with the current system behaviour, i.e. the IE734 is disseminated to the MSAs that are registered for receiving IE734 disseminations. However, in FESS (EBP UC-105-110 "Send reference data" of FESS v3.81 Section III), it is not clarified that, in the aforementioned scenario, SEED sends the IE734 only to the MSAs who are registered to receive IE734 disseminations.</p> |
| Constraints | N/A |
| L3 Reference Models | L3-RDM-01-01-Maintenance and dissemination of reference data other |

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|--|
| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|-------------------------|---|
| | than the EOL |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.77: Process Details

5.9.3. Tasks and Events

Event Modifications to the reference data performed

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Modifications to the reference data performed |
| Event Type | Conditional start event |
| Description | Due to the fact that the reference data is of great importance to the correct functioning of the EMCS, it has to be accurate and up-to-date. Changes to the reference data are decided by the Commission. The Common Domain Central Services receive the update instructions from the Commission. |
| Previous Objects | |

Table 5.78: Event Modifications to the reference data performed

Task Register modifications to the reference database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Register modifications to the reference database |
| Task Type | User task |
| Description | When the XML file, containing all the modifications to the reference data, is ready, it has to be uploaded to SEED. The modifications concern the creation, update or invalidation of a specific record in the reference data. |
| Actor | SEED User |
| Input Data | Message Type C_PAR_DAT C_COD_DAT |
| Output Data | C_COD_DAT C_PAR_DAT Message Type |
| Previous Objects | Modifications to the reference data performed |
| Information Exchange | |
| Requirements | RDM_FUR_0008 |
| Data Set | |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|--------|--|
| Events | |
| State | |

Table 5.79: Task Register modifications to the reference database

Task Record modifications to the reference database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Record modifications to the reference database |
| Task Type | Service task |
| Description | Reference data modifications have to be recorded in the Central Reference Database. |
| Actor | SEED |
| Input Data | Message Type C_PAR_DAT C_COD_DAT |
| Output Data | Message Type C_COD_DAT C_PAR_DAT |
| Previous Objects | Register modifications to the reference database |
| Information Exchange | |
| Requirements | RDM_FUR_0009 |
| Data Set | |
| Events | |
| State | |

Table 5.80: Task Record modifications to the reference database

Task Build Operations on the Reference Database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|--|
| Task Name | Build Operations on the Reference Database |
| Task Type | Service task |
| Description | SEED builds an Operations on the Reference Database message (IE734) containing the modifications or the data items of Reference Data for the period specified. |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-02-Consultation of other reference data by MSA central services |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|--|
| | |
| Input Data | C_RDD_DAT |
| Output Data | C_RDD_DAT |
| Previous Objects | Record modifications to the reference database |
| Information Exchange | |
| Requirements | RDM_FUR_0001 |
| Data Set | |
| Events | |
| State | |

Table 5.81: Task Build Operations on the Reference Database

Task Record Operations on the Reference Database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|---|
| Task Name | Record Operations on the Reference Database |
| Task Type | Service task |
| Description | The Operations on the Reference Database message (IE734) is stored. |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-02-Consultation of other reference data by MSA central services |
| Input Data | C_RDD_DAT |
| Output Data | C_RDD_DAT |
| Previous Objects | Build Operations on the Reference Database |
| Information Exchange | |
| Requirements | RDM_FUR_0002 |
| Data Set | |
| Events | |
| State | |

Table 5.82: Task Record Operations on the Reference Database

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Task Identify whether there are any MSAs that are registered to receive dissemination of operations to the reference database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Identify whether there are any MSAs that are registered to receive dissemination of operations to the reference database |
| Task Type | Service task |
| Description | Once the Common Domain Central Services have a set of reference data updates, it can be disseminated to the Member States. The IE734 message (operations on the reference database) is only disseminated to those Member States, which have explicitly asked for such disseminations via CCN in their profile on SEED. Therefore, SEED has to identify whether there are any MSAs that are registered to receive disseminations of the operations on the reference database. The dissemination of reference data should be completed in advance, before the data contained in the IE734 message becomes applicable. |
| Actor | SEED |
| Input Data | |
| Output Data | Results identify whether there are any MSAs that are registered to receive dissemination of operations to the reference database |
| Previous Objects | Record Operations on the Reference Database |
| Information Exchange | operations on the reference data base |
| Requirements | RDM_FUR_0007 |
| Data Set | |
| Events | |
| State | |

Table 5.83: Task Identify whether there are any MSAs that are registered to receive dissemination of operations to the reference database

Task Notify MSA Central Services of Operations on the Reference Database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|---|
| Task Name | Notify MSA Central Services of Operations on the Reference Database |
| Task Type | Send task |
| Description | SEED notifies the concerned MSA Central Services of the Operations on the Reference Database message (IE734). |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-02-Consultation of other reference data by MSA central services |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|---|
| | |
| Input Data | C_RDD_DAT |
| Output Data | |
| Previous Objects | Are there any MSAs that are registered to receive dissemination of operations to the reference database |
| Information Exchange | operations on the reference data base |
| Requirements | RDM_FUR_0003 |
| Data Set | |
| Events | |
| State | |

Table 5.84: Task Notify MSA Central Services of Operations on the Reference Database

Event Reference database modified and updates not disseminated

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Reference database modified and updates not disseminated |
| Event Type | End event |
| Description | The reference data updates are not disseminated to the MSAs, which are not registered for IE734 dissemination. The Central Services of those MSAs which are not registered to receive notifications of reference data modifications from the Common Domain Central Services, have to request an extract of the modifications applied to the Central Reference Database using the Common Request message (IE701). |
| Previous Objects | Are there any MSAs that are registered to receive dissemination of operations to the reference database |

Table 5.85: Event Reference database modified and updates not disseminated

Event Reference database modified and updates disseminated

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Reference database modified and updates disseminated |
| Event Type | End event |
| Description | The updates of the reference data, consistent with the reference data version kept by the Common Domain Central Services, have been disseminated to the MSA Central Services. |
| Previous Objects | Notify MSA Central Services of Operations on the Reference Database |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Table 5.86: Event Reference database modified and updates disseminated

5.10. Process L4-RDM-01-02-Consultation of other reference data by MSA central services

5.10.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the consultation of reference data by MSA central services, in accordance with the current Common Specifications (FESS and DDNEA).

The current process is triggered when SEED at Common Domain Central Services receives a Common Request message (IE701) from a MSA (MSA Central Services), indicating a request for re-synchronisation of Reference Data (Request Type is "2: Request for reference data").

After receiving the Common Request message, IE701 (indicating a request for re-synchronisation of Reference Data), SEED at Common Domain Central Services validates its data by using the "L4-RADM-01-07-Perform validation of Common Domain message" sub process. Then, SEED proceeds with the handling of the validation results by using the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity. Depending on the outcome (end event) of the "L4-RADM-01-08-Handle validation Results of Common Domain message" call activity, the following may happen:

- If a refusal message (IE917/IE702) is sent to the MSA Central Services (since the Common Request message was found invalid), the whole process ends at this point;
- If the Common Request message (IE701) is recorded (since it was found valid), the process continues.

Following, SEED builds an Operations on the Reference Data message, IE734 (containing the SEED data requested by the concerned MSA) and stores it. Then, SEED notifies the concerned MSA Central Services of the Operations on the Reference Data message (IE734) and the whole process ends.

5.10.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|---|
| Process ID | L4-RDM-01-02 |
| Full Name | Consultation of other reference data by MSA central services |
| Assumptions | N/A |
| Constraints | N/A |
| L3 Reference Models | L3-RDM-01-02-Consultation of reference data by MSA central services |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.87: Process Details

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.10.3. Tasks and Events

Event Common Request for re-synchronisation of the reference data received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Request for re-synchronisation of the reference data received |
| Event Type | Message start event |
| Description | Common Request message (IE701) indicating a request for re-synchronisation of reference data (Request Type is "2: Request for reference data") is received. This shows that the concerned MSA requests from the Common Domain Central Services all or part of the update information in order to obtain an up-to-date Reference Data in SEED database. |
| Previous Objects | MSA Central Services |

Table 5.88: Event Common Request for re-synchronisation of the reference data received

Task Perform validation of Common Request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Perform validation of Common Request |
| Task Type | Subprocess (collapsed) |
| Description | This task is modeled in a separate process: L4-RADM-01-07-Perform validation of Common Domain message. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Common Request for re-synchronisation of the reference data received |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.89: Task Perform validation of Common Request

Task Handle validation results of common request

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Handle validation results of common request |
| Task Type | Call activity (collapsed) |

| |
|--|
| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| | |
|----------------------|---|
| Description | This task is modeled in a separate process: L4-RADM-01-08-Handle validation Results of Common Domain message. |
| Actor | SEED |
| Input Data | |
| Output Data | |
| Previous Objects | Perform validation of Common Request |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.90: Task Handle validation results of common request

Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Refusal message sent to the MSA Central Services since the Common Request had been found invalid |
| Event Type | End event |
| Description | Refusal message (IE917/IE702) sent to the MSA Central Services since the Common Request (IE701) had been found invalid. |
| Previous Objects | What is the outcome of handling the validation results |

Table 5.91: Event Refusal message sent to the MSA Central Services since the Common Request had been found invalid

Event Common Request recorded

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Request recorded |
| Event Type | Conditional intermediate event |
| Description | The Common Request message (IE701) was recorded since it had been found valid and the process continues. |
| Previous Objects | What is the outcome of handling the validation results |

Table 5.92: Event Common Request recorded

Task Build Operations on the Reference Database

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|--|
| Task Name | Build Operations on the Reference Database |
| Task Type | Service task |
| Description | SEED builds an Operations on the Reference Database message (IE734) containing the modifications or the data items of Reference Data for the period specified. |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL |
| Input Data | C_RDD_DAT |
| Output Data | C_RDD_DAT |
| Previous Objects | Common Request recorded |
| Information Exchange | |
| Requirements | RDM_FUR_0001 |
| Data Set | |
| Events | |
| State | |

Table 5.93: Task Build Operations on the Reference Database

Task Record Operations on the Reference Database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|---|
| Task Name | Record Operations on the Reference Database |
| Task Type | Service task |
| Description | The Operations on the Reference Database message (IE734) is stored. |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL |
| Input Data | C_RDD_DAT |
| Output Data | C_RDD_DAT |
| Previous Objects | Build Operations on the Reference Database |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|--------------|
| Information Exchange | |
| Requirements | RDM_FUR_0002 |
| Data Set | |
| Events | |
| State | |

Table 5.94: Task Record Operations on the Reference Database

Task Notify MSA Central Services of Operations on the Reference Database

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---|---|
| Task Name | Notify MSA Central Services of Operations on the Reference Database |
| Task Type | Send task |
| Description | SEED notifies the concerned MSA Central Services of the Operations on the Reference Database message (IE734). |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL |
| Input Data | C_RDD_DAT |
| Output Data | |
| Previous Objects | Record Operations on the Reference Database |
| Information Exchange | operations on the reference data base |
| Requirements | RDM_FUR_0003 |
| Data Set | |
| Events | |
| State | |

Table 5.95: Task Notify MSA Central Services of Operations on the Reference Database

Event Requested Reference Data made available to the concerned MSA

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Requested Reference Data made available to the concerned MSA |
| Event Type | End event |
| Description | The requested information of Reference Data (Operations on the Reference Database message, IE734) have been made available to the concerned |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | MSA. |
| Previous Objects | Notify MSA Central Services of Operations on the Reference Database |

Table 5.96: Event Requested Reference Data made available to the concerned MSA

5.11. Process L4-RDM-01-03-Consultation of public reference data by economic operators

5.11.1. Objective of Process

The purpose of this process is to describe all possible paths in the electronic flow of the Consultation of public reference data by economic operators, in accordance with the current Common Specifications (FESS).

The current process is triggered when a MSA (MSA Central Services) receives an External Request for Reference Data (IE705) from an economic operator, indicating a request for up-to Reference Data information.

After receiving the External Request for Reference Data, IE705 (indicating a request for re-synchronisation of Reference Data), MSA Central Services records the request and the process continues.

Following, MSA Central Services builds an External List Of Codes message, IE733 (containing the reference data requested by the concerned economic operator) and stores it. Then, MSA Central Services notifies the concerned economic operator on the External List Of Codes message (IE735) and the whole process ends.

5.11.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|---|
| Process ID | L4-RDM-01-03 |
| Full Name | Consultation of public reference data by economic operators |
| Assumptions | According to FESS Section III, Sub-section 5.5, the Use Case “Consultation of public reference data by economic operators (UC1.13)” describes the functionality where Economic operators get the necessary reference data from their respective MSA. Hence, this functionality is performed between the Economic Operator and the MSA central services (via the messages E_REQ_SUB (IE705) and E_COD_DAT (IE733)), without the involvement of the Common Domain central services. Thus, the UC1.13 concerns only the National Domain. |
| Constraints | N/A |
| L3 Reference Models | L3-RDM-01-03-Consultation of public reference data by economic operators |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.97: Process Details

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.11.3. Tasks and Events

Event External Request for Reference Data re-synchronisation received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | External Request for Reference Data re-synchronisation received |
| Event Type | Message start event |
| Description | External Request for Reference Data message (IE705) indicating a request for re-synchronisation of reference data is received. This shows that the concerned Economic Operator requests from the MSA Central Services an up-to-date version of publicly available reference data. |
| Previous Objects | Economic Operator |

Table 5.98: Event External Request for Reference Data re-synchronisation received

Task Build External List of Codes

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Build External List of Codes |
| Task Type | Service task |
| Description | MSA Central Services application builds an External List of Codes message (IE733) containing an up-to-date version of publicly available reference data as requested in the corresponding External Request for Reference Data message (IE705) by the concerned Economic Operator. |
| Actor | MSA Central Application |
| Input Data | |
| Output Data | E_COD_DAT |
| Previous Objects | External Request for Reference Data re-synchronisation received |
| Information Exchange | external request for reference data |
| Requirements | RDM_FUR_0004 |
| Data Set | |
| Events | |
| State | |

Table 5.99: Task Build External List of Codes

Task Record External List of Codes

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|----------------------|
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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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|----------------------|---|
| Task Name | Record External List of Codes |
| Task Type | Service task |
| Description | The External List of Codes message (IE733) is stored. |
| Actor | MSA Central Application |
| Input Data | E_COD_DAT |
| Output Data | E_COD_DAT |
| Previous Objects | Build External List of Codes |
| Information Exchange | |
| Requirements | RDM_FUR_0005 |
| Data Set | |
| Events | |
| State | |

Table 5.100: Task Record External List of Codes

Task Notify Economic Operator on the External List of Codes

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|--|
| Task Name | Notify Economic Operator on the External List of Codes |
| Task Type | Send task |
| Description | MSA Central Services application notifies the concerned Economic Operator on External List of Codes message (IE733). |
| Actor | MSA Central Application |
| Input Data | E_COD_DAT |
| Output Data | |
| Previous Objects | Record External List of Codes |
| Information Exchange | external list of codes |
| Requirements | RDM_FUR_0006 |
| Data Set | |
| Events | |
| State | |

Table 5.101: Task Notify Economic Operator on the External List of Codes

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

Event Latest Reference Data made available to concerned Economic Operator

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Latest Reference Data made available to concerned Economic Operator |
| Event Type | End event |
| Description | The requested up-to-date version information of Reference Data (External List of Codes message, IE733) have been made available to the concerned Economic Operator. |
| Previous Objects | Notify Economic Operator on the External List of Codes |

Table 5.102: Event Latest Reference Data made available to concerned Economic Operator

5.12. Process L4-RADM-01-07-Perform validation of Common Domain message

5.12.1. Objective of Process

The purpose of this sub process is to describe all possible steps during the validation of a Common Domain message, in accordance with the current Common Specifications (DDNEA).

The current sub process is triggered when a Common Domain message is received. After the Common Domain message is received, a Syntactic validation of this message is performed:

- In case the message is found invalid due to Syntactic violation(s), the sub process ends here;
- In case the message is found valid, the sub process continues.

Following, Coordination Protocol validation of the message is performed:

- In case the message is found invalid due to Coordination Protocol violation(s), the sub process ends;
- In case the message is found valid, the sub process continues.

Finally, Business Compliance validation of the message is performed:

- In case the message is found invalid due to Business Compliance violation(s), the sub process ends;
- In case the message is found valid, the sub process also ends.

5.12.2. Process Details

| PROCESS ATTRIBUTE NAME | PROCESS ATTRIBUTE VALUE |
|-------------------------|---|
| Process ID | L4-RADM-01-07 |
| Full Name | Perform validation of Common Domain message |
| Assumptions | N/A |
| Constraints | No constraints. |
| L3 Reference Models | L3-RADM-01-01-Maintenance of the Central Register |
| Existing Specifications | Design Document for National Excise Applications - v3.02 |

Table 5.103: Process Details

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

5.12.3. Tasks and Events

Event Common Domain message received

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Domain message received |
| Event Type | Start event |
| Description | The current process starts when a Common Domain message is received. |
| Previous Objects | |

Table 5.104: Event Common Domain message received

Task Perform Syntactic validation of Common Domain message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|----------------------|---|
| Task Name | Perform Syntactic validation of Common Domain message |
| Task Type | Service task |
| Description | <p>The following validations are defined as the Syntactic layer validations and when any of the aforementioned validations fails for a given Common Domain XML message, then that message is defined as syntactically invalid:</p> <ul style="list-style-type: none"> • After the reception of a Common Domain XML message and before the message is further processed the receiver validates the size of the received message (defined in DDNEA and TESS), in order to avoid unresponsiveness or abrupt failure of the receiving application; • In the case that the received message is within the acceptable size limit, the receiver validates that its content conforms to the XML standard (defined in DDNEA) and that it is UTF-8 encoded; • Then, the receiver validates the structure of the received Common Domain XML message against the corresponding XSD defined in Appendix H of DDNEA. |
| Actor | |
| Input Data | |
| Output Data | Result Identify if the Common Domain message is syntactically valid |
| Previous Objects | Common Domain message received |
| Information Exchange | common request operations on the register of economic operators |
| Requirements | RAD_FUR_0010 |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Data Set | |
| Events | |
| State | |

Table 5.105: Task Perform Syntactic validation of Common Domain message

Event Common Domain message found invalid due to syntactic violation(s)

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Domain message found invalid due to syntactic violation(s) |
| Event Type | End event |
| Description | The Common Domain message was found invalid due to Syntactic violation(s) and the process ends. |
| Previous Objects | Has the Common Domain message passed Syntactic validation successfully? |

Table 5.106: Event Common Domain message found invalid due to syntactic violation(s)

Task Perform Coordination Protocol validation of the Common Domain message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Perform Coordination Protocol validation of the Common Domain message |
| Task Type | Service task |
| Description | <p>Validations relating to the coordination protocol should be performed in order to facilitate the exception handling in the Common Domain.</p> <p>The errors resulting from coordination protocol validations in the Registration, Authorisation and Reference Data Management Domain can be the following for both IE702 and IE714 messages:</p> <p>26 - (Duplicate detected) is of particular importance to the coordination protocol that ensures the uniqueness of the Message Identifier for a pair of sender/receiver as defined in VII.I.4 Common message header. For IE702 and IE714 only code 26 (Duplicate detected) from the coordination protocol error codes applies and it is only used by central SEED in the NEA to SEED message exchanges.</p> |
| Actor | |
| Input Data | Result Identify if the Common Domain message is syntactically valid |
| Output Data | Result Identify if the Common Domain message passed Coordination Protocol validation successfully |
| Previous Objects | Has the Common Domain message passed Syntactic validation successfully? |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Information Exchange | common request operations on the register of economic operators |
| Requirements | RAD_FUR_0033 |
| Data Set | |
| Events | |
| State | |

Table 5.107: Task Perform Coordination Protocol validation of the Common Domain message

Task Perform Business Compliance validation of Common Domain message

| TASK ATTRIBUTE NAME | TASK ATTRIBUTE VALUE |
|---------------------|---|
| Task Name | Perform Business Compliance validation of Common Domain message |
| Task Type | Service task |
| Description | <p>A number of validations relating to the business compliance should be performed in order to facilitate the exception handling in the Common Domain.</p> <p>The errors resulting from the business compliance validations in the Registration and Authorisation Data Management Domain can be the following (separated to specifics to IE714 and IE702 accordingly):</p> <p>A) Business compliance error codes specific to IE714:</p> <ul style="list-style-type: none"> • 0 - Other: This value should be used only when the error does not correspond to any of the following values. It must be stressed that the value of zero should only be used for intra-release migration issues; • 8 - Trader Authorisation already exists (creation): A record with the specified Trader Excise Number already exists; • 9 - Tax warehouse already exists (creation): A record with the specified Reference of Tax Warehouse already exists; • 10 - Temporary authorisation already exists (creation): A record with the specified Temporary Authorisation Reference already exists; • 11 - Trader Authorisation not found (Update / Deletion): The Update / Deletion operation cannot be performed since the specified Trader Excise Number cannot be found; |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | <ul style="list-style-type: none"> • 12 - Tax warehouse not found (Update / Deletion): The Update / Deletion operation cannot be performed since the specified Reference of Tax Warehouse cannot be found; • 13 - Temporary authorisation not found (Update / Deletion): The Update / Deletion operation cannot be performed since the specified Temporary Authorisation Reference cannot be found; • 27 - Inconsistency between Excise number and Excise office: The specified Excise office cannot be used for the specified Excise number (applies to all authorisations); • 41 - Only a warehouse keeper may be allowed to use a tax warehouse: The data group (USING) TAX WAREHOUSE only applies to tax warehouse keepers; • 42 - Invalid Reference of Tax Warehouse (R204 violation): The specified Tax Warehouse Reference is not a valid <TAX WAREHOUSE.Reference of Tax Warehouse> or it is invalid according to Rule R204; • 43 - Missing Authorised Warehouse Keeper referencing Tax Warehouse (R205 violation): The specified Tax Warehouse Reference is not a valid <(USING) TAX WAREHOUSE.Reference of Tax Warehouse> defined in Rule R205; • 44 - <Trader Excise Number> is missing (Cond157 violation): The Consignor Trader Excise Number is not specified for the Temporary Authorisation that is not flagged as Small Wine Producer; • 45 - Invalid value for <Excise Product Code> (Rule212 violation): The specified Excise Product Codes are other than 'W200' and 'W300' for the Temporary Authorisation that is flagged as Small Wine Producer; • 46 - The Member State of the Temporary Authorisation and the declared Consignor is the same (R233 violation): The Member State of the Consignor is the same with the Member State the Temporary Authorisation is registered for; • 112 - Incorrect (code) value: Value of an element in a message is outside the applicable business codelist; • 115 - Not supported in this position: The element or value is not allowed according to the applicable Rule(s) or Condition(s). <p>B) Business compliance error codes specific to IE702:</p> <ul style="list-style-type: none"> • 0 - Other: This value should be used only when the error does not |
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| | <p>correspond to any of the following values. It must be stressed that the value of zero should only be used for intra-release migration issues;</p> <ul style="list-style-type: none"> • 2 - No e-AD(s) retrieved matching selection criteria; • 3 - Reference data not available; • 4 - Excise Office List not available; • 5 - SEED data not available; • 8 - Increment number out of range: Also used when the maximum limit of retrieved e-ADs has been reached; • 112 - Incorrect (code) value: Value of an element in a message is outside the applicable business codelist; • 115 - Not supported in this position: The element or value is not allowed according to the applicable Rule(s) or Condition(s). |
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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| Actor | |
| Input Data | Result Identify if the Common Domain message is syntactically valid Result Identify if the Common Domain message passed Coordination Protocol validation successfully |
| Output Data | Result Identify if the Common Domain message passed Business Compliance validation successfully |
| Previous Objects | Has the Common Domain message passed Coordination Protocol validation successfully? |
| Information Exchange | operations on the register of economic operators common request |
| Requirements | RAD_FUR_0012 |
| Data Set | |
| Events | |
| State | |

Table 5.108: Task Perform Business Compliance validation of Common Domain message

Event Common Domain message found invalid due to Coordination Protocol violation(s)

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|--|
| Event Name | Common Domain message found invalid due to Coordination Protocol |

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| Excise Functional Requirements BPM Report - SEED |
| PROCESS MODELS |

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| | violation(s) |
| Event Type | End event |
| Description | The Common Domain message was found invalid due to Coordination Protocol violation(s) and the process ends. |
| Previous Objects | Has the Common Domain message passed Coordination Protocol validation successfully? |

Table 5.109: Event Common Domain message found invalid due to Coordination Protocol violation(s)

Event Common Domain message found valid

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Domain message found valid |
| Event Type | End event |
| Description | The Common Domain message was found valid and the process ends. |
| Previous Objects | Has the Common Domain message passed Business Compliance validation successfully? |

Table 5.110: Event Common Domain message found valid

Event Common Domain message found invalid due to Business Compliance violation(s)

| EVENT ATTRIBUTE NAME | EVENT ATTRIBUTE VALUE |
|----------------------|---|
| Event Name | Common Domain message found invalid due to Business Compliance violation(s) |
| Event Type | End event |
| Description | The Common Domain message was found invalid due to Business Compliance violation(s) and the process ends. |
| Previous Objects | Has the Common Domain message passed Business Compliance validation successfully? |

Table 5.111: Event Common Domain message found invalid due to Business Compliance violation(s)