

Excise Functional Requirements BPM Report - SEED
COVER PAGE

OWNER: DG TAXUD	ISSUE DATE: 16/04/2025	VERSION: 4.22
European Commission Taxation and Customs Union DG SUBJECT: Excise Functional Requirements BPM Report - SEED SC20-RfA#842		
FRAMEWORK CONTRACT: TAXUD/2021/CC/162		
STATUS: MSC		

Excise Functional Requirements BPM Report - SEED
TABLE OF CONTENTS

TABLE OF CONTENTS

1. INTRODUCTION	4
1.1. Document Purpose	4
1.2. Deviation From TEMPO	4
1.3. Assumption and Constraints	4
1.4. Project Ownership.....	4
1.5. Intended Audience	4
1.6. Structure of Document.....	4
2. REFERENCES	6
2.1. Acronyms and abbreviations	6
2.2. Reference Documents	6
3. DOCUMENT HISTORY	8
4. HIGH LEVEL SYSTEM OVERVIEW	21
4.1. System Overview	21
4.2. Actors.....	21
5. PROCESS MODELS.....	23
5.1. Process L4-RADM-01-00-Registration and Authorisation Data Management Master Process	23
5.1.1. Objective of Process	23
5.1.2. Process Details.....	23
5.1.3. Tasks and Events	23
5.2. Process L4-RADM-01-01-Maintenance of registration data.....	26
5.2.1. Objective of Process	26
5.2.2. Process Details.....	28
5.2.3. Tasks and Events	29
5.3. Process L4-RADM-01-02-Consultation of registration data by MSA central services	33
5.3.1. Objective of Process	33
5.3.2. Process Details.....	33
5.3.3. Tasks and Events	34
5.4. Process L4-RADM-01-03-Dissemination of registration data	38
5.4.1. Objective of Process	38
5.4.2. Process Details.....	38
5.4.3. Tasks and Events	39
5.5. Process L4-RADM-01-05-Consultation of registration information by Economic Operators.....	40
5.5.1. Objective of Process	40
5.5.2. Process Details.....	41
5.5.3. Tasks and Events	41
5.6. Process L4-RADM-01-06-SEED statistics.....	47
5.6.1. Objective of Process	47
5.6.2. Process Details.....	48
5.6.3. Tasks and Events	48
5.7. Process L4-RADM-01-08-Handle validation Results of Common Domain message	52
5.7.1. Objective of Process	52
5.7.2. Process Details.....	53

Excise Functional Requirements BPM Report - SEED
TABLE OF CONTENTS

5.7.3. Tasks and Events	53
5.8. Process L4-RDM-01-00-Reference Data Management Master Process	61
5.8.1. Objective of Process	61
5.8.2. Process Details.....	61
5.8.3. Tasks and Events	62
5.9. Process L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL	64
5.9.1. Objective of Process	64
5.9.2. Process Details.....	65
5.9.3. Tasks and Events	65
5.10. Process L4-RDM-01-02-Consultation of other reference data by MSA central services	70
5.10.1. Objective of Process	70
5.10.2. Process Details.....	71
5.10.3. Tasks and Events	71
5.11. Process L4-RDM-01-03-Consultation of public reference data by economic operators.....	75
5.11.1. Objective of Process	75
5.11.2. Process Details.....	76
5.11.3. Tasks and Events	76
5.12. Process L4-RADM-01-07-Perform validation of Common Domain message.....	79
5.12.1. Objective of Process	79
5.12.2. Process Details.....	79
5.12.3. Tasks and Events	79

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/C3 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

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

Excise Functional Requirements BPM Report - SEED
REFERENCES

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

Table 2.2: Reference Documents

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>	I,U	All

			Build Replication of Excise Authorisations Notify SEED-on-Europa of Replication of Excise Authorisations Prepare an extract from SEED of currently valid Excise Authorisations Record Replication of Excise Authorisations Acknowledge answer no Acknowledge answer no(1) Acknowledge answer yes along with key details of excise authorization Identify whether the Excise Number exists Identify whether the Excise Number is valid for the current date Record request for verifying an Excise Number Register request for verifying an Excise Number Build SEED Statistics Notify MSA Central Services of SEED Statistics Record SEED Statistics Perform Business Compliance validation of Common Domain message Perform Syntactic validation of Common Domain message Build Negative Acknowledgement of XML Receipt refusal message Build Refusal of Common Request Build Refusal of Update of Economic Operators message Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message Notify MSA Central Services of Refusal of Common Request		
--	--	--	---	--	--

			<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> <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>		
--	--	--	---	--	--

			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 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		
--	--	--	--	--	--

			<p>STA_PER_MS OPERATOR_TYPE EXCISE_PRODUCT_ACTIVITY OPERATOR_TYPE_ALL_MS EXCISE_PRODUCT_CATEGORY_ACTIVITY_ALL_MS 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 review to DG Taxation and Customs Union.</p>		
1	00	11/11/2016	<p>Producing the following:</p> <p>a) L4 models: L4-RADM-AS-IS-01-01-Maintenance of registration data L4-RADM-AS-IS-01-02-Consultation of registration data by MSA central services L4-RADM-AS-IS-01-03-Dissemination of registration data</p>	I,U	All

			<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> <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>		
--	--	--	--	--	--

Excise Functional Requirements BPM Report - SEED
DOCUMENT HISTORY

			<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> <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: 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)</p>		
--	--	--	---	--	--

			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_CATEGOR Y_ACTIVITY_ALL_MS EXCISE_PRODUCT_ACTIVITY _ALL_MS Result Identify if the Excise Number is valid for the current date Result Identify whether the Common Domain message is an Operations on the Register of		
--	--	--	--	--	--

Excise Functional Requirements BPM Report - SEED
DOCUMENT HISTORY

			<p>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	<p>Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under SC04-RFA#393</p> <p>Submitted for review to DG Taxation and Customs Union.</p>	I,U	All
1	02	15/06/2017	<p>Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under SC04-RFA#393</p> <p>Submitted for Acceptance to DG Taxation and Customs Union.</p>	I,U	All
1	03	15/06/2017	<p>Produced/Updated L4 Models and Artefacts (Completion of EMCS 3.3 BPMs) under SC03-RFA#077.</p> <p>Submitted for Acceptance to DG Taxation and Customs Union.</p>	I,U	All
1	04	04/08/2017	<p>Published for Member States (MSP).</p>	I,U	All
1	05	03/04/2018	<p>Submitted for Review to DG Taxation and Customs Union.</p>	I,U	All

Excise Functional Requirements BPM Report - SEED					
DOCUMENT HISTORY					

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 Taxation and Customs Union.	I, U	All
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
4	02	25/10/2022	Implementation of the following RFCs:	I, U	All

Excise Functional Requirements BPM Report - SEED
DOCUMENT HISTORY

			<p>FESS-286, FESS-287, FESS-288, FESS-289, FESS-290, FESS-291, FESS-292, FESS-293, FESS-294, FESS-295, FESS-296, FESS-297, FESS-298, FESS-299, FESS-300, FESS-302.</p> <p>Submitted for Review to DG TAXUD.</p>		
4	03	30/11/2022	<p>Implementation of review comments received under SC08-RfA#192 from DG TAXUD.</p> <p>Submitted for Acceptance to DG TAXUD.</p>	I, U	All
4	10	07/12/2022	<p>Implemented BPMs under SC08-RfA#192.</p> <p>Submitted for Member States Review.</p>	I, U	All
4	11	17/02/2023	<p>Implemented BPMs under SC08-RfA#275.</p> <p>Implementation of the following RFCs: FESS-305, FESS-306</p> <p>Submitted for Review to DG TAXUD.</p>	I, U	All
4	12	01/03/2023	<p>Implemented BPMs under SC08-RfA#275.</p> <p>Submitted for Acceptance to DG TAXUD.</p>	I, U	All
4	12	01/03/2023	<p>Implemented BPMs under SC08-RfA#275.</p> <p>Published for Member States Information (MSI).</p>	I, U	All
4	13	31/01/2025	<p>Implementation of the following RFCs: FESS-307/Rev1, FESS-309/Rev1, FESS-310/Rev1, FESS-311/Rev1, FESS-312/Rev1, FESS-314/Rev1, FESS-315/Rev1, FESS-316/Rev1, FESS-317/Rev1, FESS-318/Rev1, FESS-319/Rev1, FESS-323/Rev1, FESS-330/Rev1, FESS-333, FESS-322, FESS-324, FESS-325, FESS-</p>	I, U	All

Excise Functional Requirements BPM Report - SEED
DOCUMENT HISTORY

			326, FESS-327, FESS-328, FESS-329, FESS-331, FESS-332, FESS-334, FESS-335, FESS-337, FESS-338, FESS-339, FESS-341, FESS-342, FESS-343, FESS-345, FESS-346, FESS-347, FESS-348 Submitted for Review to DG TAXUD.		
4	20	24/02/2025	Implementation of review comments received from DG TAXUD. Submitted for Acceptance to DG TAXUD.	I, U	All
4	21	27/02/2025	Implementation of review comments received from DG TAXUD. re-Submitted for Acceptance to DG TAXUD.	I, U	All
4	21	27/02/2025	Implementation of the following RFCs: FESS-307/Rev1, FESS-309/Rev1, FESS-310/Rev1, FESS-311/Rev1, FESS-312/Rev1, FESS-314/Rev1, FESS-315/Rev1, FESS-316/Rev1, FESS-317/Rev1, FESS-318/Rev1, FESS-319/Rev1, FESS-323/Rev1, FESS-330/Rev1, FESS-333, FESS-322, FESS-324, FESS-325, FESS-326, FESS-327, FESS-328, FESS-329, FESS-331, FESS-332, FESS-334, FESS-335, FESS-337, FESS-338, FESS-339, FESS-341, FESS-342, FESS-343, FESS-345, FESS-346, FESS-347, FESS-348 Submitted for Member States Review (MSP)		
4	22	11/04/2025	Implementation of MS comments Submitted for Information (SfI)		
4	22	16/04/2025	Submitted for MSAs comments implementation confirmation (MSC)		

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
Common Domain Central Services	Central services in the Common Domain: <ul style="list-style-type: none"> · 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.
Economic Operator	Any economic operator involved at a given movement either as Consignor or as a Consignee.
Excise Authority	N/A
MSA Central Application	MSA Central Services application: <ul style="list-style-type: none"> · produce, submit, receive and keep SEED and reference data information including the EOL; · request and receive SEED statistics; · provide information on the reference data to economic operators.
MSA Central Application User	
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.
Requestor	Any person accessing the Web.
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

Excise Functional Requirements BPM Report - SEED
HIGH LEVEL SYSTEM OVERVIEW

	Operators register and the Reference Data register. It also provides exchange of SEED statistics.
SEED	
SEED User	
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-on-Europa service	SEED-on-EUROPA service provides accessing of some SEED register data (simple verification of excise authorisations).
SEED-on-Europa site	<p>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).</p> <p>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.</p>

Excise Functional Requirements BPM Report - SEED
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 - v3.23

Table 5.1: Process Details

5.1.3. Tasks and Events

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Event Type	Start event
Description	
Previous Objects	

Table 5.2: Event Registration and Authorisation Data to be updated and made available to MSAs/Economic Operators and Statistical Information to be communicated to MSAs

Task Maintenance of registration data

TASK ATTRIBUTE NAME	TASK ATTRIBUTE VALUE
Task Name	Maintenance of registration data
Task Type	Call activity (collapsed)
Description	
Actor	Excise Authority
Input Data	
Output Data	
Previous Objects	Registration and Authorisation Data to be updated and made available to MSAs/Economic Operators and Statistical Information to be communicated to MSAs
Information Exchange	
Requirements	
Data Set	
Events	
State	

Table 5.3: Task Maintenance of registration data

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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Data Set	
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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Events	
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	Does a requestor want to verify the validity of an excise number at a given date? Consultation of registration information by Economic Operators Consultation of registration data by MSA central services Does MSA decide to search Central Register? Maintenance of registration data Does MSA decide to request SEED statistics? SEED statistics

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);

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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.

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:

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
- 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>

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	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 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 - v3.23

Table 5.8: Process Details

5.2.3. Tasks and Events

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	
Data Set	
Events	
State	

Table 5.9: Task Perform validation of operations on the register of economic operators

Event Operations on the register of economic operators received

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 5.10: Event Operations on the register of economic operators received

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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)
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 - v3.23

Table 5.18: Process Details

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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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.
Previous Objects	What is the outcome of handling the validation results

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 Operators

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	<p>receive a signal for update of the registration data in a particular Member State or in a group of Member States;</p> <p>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.</p>
Constraints	No constraints.
L3 Reference Models	L3-RADM-01-03-Forward notifications of modifications to national registers
Existing Specifications	Design Document for National Excise Applications - v3.23

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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.

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 - v3.23

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
Description	The Requestor registers the request for verifying an Excise Number to SEED-on-Europa site.
Actor	Requestor
Input Data	Reference of Tax Warehouse Trader Excise Number Temporary Authorisation Reference
Output Data	Reference of Tax Warehouse Trader Excise Number Temporary Authorisation Reference
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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

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	Reference of Tax Warehouse Authorisation Begin Date Validity End Date Temporary Authorisation Reference Authorisation End Date Trader Excise Number

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	Date of Expiry Validity Begin Date
Output Data	Result Identify if the Excise Number is valid for the current date
Previous Objects	Does the Excise Number exist?
Information Exchange	
Requirements	RAD_FUR_0031
Data Set	
Events	
State	

Table 5.38: Task Identify whether the Excise Number is valid for the current date

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 5.39: Event Response indicating "no" received

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?

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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 whether the Excise Number exists 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 Result Identify whether the Excise Number exists OPERATOR ROLE Operator Type Code EXCISE PRODUCT for IE713

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 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:

- 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;

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

b. 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 - v3.23

Table 5.44: Process Details

5.6.3. Tasks and Events

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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Table 5.45: Task Perform validation of Common Request

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 5.46: Event Common Request for SEED statistics received

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)
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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	STATISTICS REQUEST STATISTICS PERIOD ATTRIBUTES for IE701
Output Data	C_STA_VAL
Previous Objects	Common Request recorded
Information Exchange	
Requirements	RAD_FUR_0003

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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	
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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;

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

· 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 - v3.23

Table 5.54: Process Details

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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	operations on the register of economic operators Negative Acknowledgement of XML Receipt message common request
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
Task Type	Service task
Description	The valid message is stored.
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 Result Identify if the Common Domain message passed Business Compliance validation successfully
Output Data	
Previous Objects	What is the Common Domain validation result?
Information Exchange	operations on the register of economic operators common request operations on the register of economic operators common request
Requirements	RAD_FUR_0020
Data Set	
Events	
State	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
Data Set	
Events	
State	

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

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 is syntactically valid Result Identify if the Common Domain message passed Coordination Protocol validation successfully
Output Data	Result Identify whether the Common Domain message is an Operations on the Register of Economic Operators or a Common Request message

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Previous Objects	What is the Common Domain validation result?
Information Exchange	common request operations on the register of economic operators
Requirements	RAD_FUR_0021
Data Set	
Events	
State	

Table 5.59: 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 5.60: Task Notify MSA Central Services of Negative Acknowledgement of XML Receipt refusal message

Event Message recorded

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Event Name	Message recorded
Event Type	End event
Description	The valid message is recorded.
Previous Objects	Record valid message

Table 5.61: Event Message recorded

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	
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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?
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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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	
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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</p>

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	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.
Constraints	N/A
L3 Reference Models	N/A
Existing Specifications	Design Document for National Excise Applications - v3.23

Table 5.71: Process Details

5.8.3. Tasks and Events

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

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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Table 5.73: Event Reference Data to be updated and made available

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

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Event Reference data was up-to-date

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

Table 5.76: Event Reference data was 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).

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.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 than the EOL
Existing Specifications	Design Document for National Excise Applications - v3.23

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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	Incremental Message Type C_PAR_DAT C_COD_DAT
Output Data	Incremental Message Type C_PAR_DAT C_COD_DAT
Previous Objects	Modifications to the reference data performed
Information Exchange	
Requirements	RDM_FUR_0008
Data Set	
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	C_COD_DAT Incremental Message Type C_PAR_DAT
Output Data	C_COD_DAT Incremental Message Type

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	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
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
---------------------	----------------------

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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"

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 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 - v3.23

Table 5.87: Process Details

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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)
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 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.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 - v3.23

Table 5.97: Process Details

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
---------------------	----------------------

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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
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	

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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 - v3.23

Table 5.103: Process Details

5.12.3. Tasks and Events

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

	<p>received message (defined in DDNEA and TESS), in order to avoid unresponsiveness or abrupt failure of the receiving application;</p> <ul style="list-style-type: none"> • 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
Data Set	
Events	
State	

Table 5.104: Task Perform Syntactic validation of Common Domain message

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 5.105: Event Common Domain message received

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

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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

Table 5.106: Task Perform Coordination Protocol validation of the 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 Syntatic violation(s) and the process ends.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Previous Objects	Has the Common Domain message passed Syntactic validation successfully?
------------------	---

Table 5.107: Event Common Domain message found invalid due to syntactic violation(s)

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; • 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;

	<ul style="list-style-type: none"> • 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 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; • 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).

--	--

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

Actor	
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 if the Common Domain message passed Business Compliance validation successfully
Previous Objects	Has the Common Domain message passed Coordination Protocol validation successfully?
Information Exchange	common request operations on the register of economic operators
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 violation(s)
Event Type	End event
Description	The Common Domain message was found invalid due to Coordination Protocol violation(s) and the process ends.

Excise Functional Requirements BPM Report - SEED
PROCESS MODELS

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)