

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| COVER PAGE |

| | | |
|--|----------------------------------|-------------------------|
| OWNER: DG TAXUD | ISSUE DATE: 01/03/2023 | VERSION: 4.12 |
| <p>European Commission Taxation and Customs Union DG</p> <p>SUBJECT: Excise Functional Requirements BPM Report-Reference Data Management SC08-RfA#275</p> | | |
| <p>FRAMEWORK CONTRACT: TAXUD/2021/CC/162</p> | | |
| <p>STATUS: MSI</p> | | |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| TABLE OF CONTENTS |

TABLE OF CONTENTS

| | |
|--|----|
| 1. INTRODUCTION | 3 |
| 1.1. Document Purpose | 3 |
| 1.2. Deviation From TEMPO | 3 |
| 1.3. Assumption and Constraints | 3 |
| 1.4. Project Ownership..... | 3 |
| 1.5. Intended Audience | 3 |
| 1.6. Structure of Document..... | 3 |
| 2. REFERENCES | 5 |
| 2.1. Acronyms and abbreviations | 5 |
| 2.2. Reference Documents | 5 |
| 3. DOCUMENT HISTORY | 7 |
| 4. HIGH LEVEL SYSTEM OVERVIEW | 10 |
| 4.1. System Overview | 10 |
| 4.2. Actors..... | 10 |
| 5. PROCESS MODELS..... | 12 |
| 5.1. Process L4-RDM-01-00-Reference Data Management Master Process | 12 |
| 5.1.1. Objective of Process | 12 |
| 5.1.2. Process Details..... | 12 |
| 5.1.3. Tasks and Events | 12 |
| 5.2. Process L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL | 14 |
| 5.2.1. Objective of Process | 14 |
| 5.2.2. Process Details..... | 15 |
| 5.2.3. Tasks and Events | 16 |
| 5.3. Process L4-RDM-01-02-Consultation of other reference data by MSA central services | 21 |
| 5.3.1. Objective of Process | 21 |
| 5.3.2. Process Details..... | 21 |
| 5.3.3. Tasks and Events | 21 |
| 5.4. Process L4-RDM-01-03-Consultation of public reference data by economic operators..... | 26 |
| 5.4.1. Objective of Process | 26 |
| 5.4.2. Process Details..... | 26 |
| 5.4.3. Tasks and Events | 26 |

1. INTRODUCTION

1.1. Document Purpose

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

1.2. Deviation From TEMPO

The following TEMPO sections are not part of this document:

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

The following TEMPO sections are added to this document:

- Project Ownership;
- Intended Audience.

1.3. Assumption and Constraints

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

1.4. Project Ownership

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

1.5. Intended Audience

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

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

1.6. Structure of Document

This document is organised as follows:

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

| |
|--------------|
| INTRODUCTION |
|--------------|

- 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-Reference Data Management |
| REFERENCES |

2. REFERENCES

2.1. Acronyms and abbreviations

| ACRONYM | DESCRIPTION |
|----------|---|
| ARC | Administrative Reference Code |
| Art | Article |
| 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| REFERENCES |

| | | | | |
|-----|---|----------|-------|------------|
| R02 | Functional Excise System Specifications | DG TAXUD | v3.69 | 16/08/2016 |
| R03 | Design Document for National Excise Applications (EMCS Phase 3) | DG TAXUD | v1.79 | 16/06/2016 |

Table

2.2:

Reference

Documents

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| DOCUMENT HISTORY |

3. DOCUMENT HISTORY

| ED. | REV. | DATE | DESCRIPTION | ACTION * | PAGES |
|-----|------|------------|--|----------|-------|
| 0 | 01 | 03/03/2017 | Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under SC04-RfA#393 Submitted for review to DG Taxation and Customs Union. | I,U | All |
| 1 | 00 | 15/06/2017 | Produced/Updated L4 Models and Artefacts (EMCS P3.3 Evolution & EMCS Baseline Completion) under SC04-RfA#393 Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 01 | 15/06/2017 | Produced/Updated L4 Models and Artefacts (Completion of EMCS 3.3 BPMs) under SC03-RfA#077. Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 02 | 04/08/2017 | Published for Member States (MSP). | I,U | All |
| 1 | 03 | 03/04/2018 | Submitted for Review to DG Taxation and Customs Union. | I,U | All |
| 1 | 04 | 02/05/2018 | Submitted for Acceptance to DG Taxation and Customs Union. | I,U | All |
| 1 | 05 | 02/05/2018 | Published for Member States (MSI). | I,U | All |
| 1 | 06 | 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 | 07 | 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 | 08 | 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. | I, U | All |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| DOCUMENT HISTORY |

| | | | | | |
|---|----|------------|--|------|-----|
| | | | Submitted for Review to DG Taxation and Customs Union. | | |
| 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: 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. Submitted for Review to DG TAXUD. | I, U | All |
| 4 | 03 | 30/11/2022 | Implementation of review comments received under SC08- RfA#192 from DG TAXUD. Submitted for Acceptance to DG TAXUD. | I, U | All |
| 4 | 10 | 07/12/2022 | Implemented BPMs under SC08- RfA#192. Submitted for Member States | I, U | All |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| DOCUMENT HISTORY |

| | | | | | |
|---|----|------------|--|------|-----|
| | | | Review. | | |
| 4 | 11 | 17/02/2023 | Implemented BPMs under SC08-RfA#275. Implementation of the following RFCs: FESS-305, FESS-306 Submitted for Review to DG TAXUD. | I, U | All |
| 4 | 12 | 01/03/2023 | Implemented BPMs under SC08-RfA#275. Submitted for Acceptance to DG TAXUD. | I, U | All |
| 4 | 12 | 01/03/2023 | Implemented BPMs under SC08-RfA#275. Published for Member States Information (MSI). | I, U | All |

Table

3.1:

Document

History

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

4. HIGH LEVEL SYSTEM OVERVIEW

4.1. System Overview

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

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

4.2. Actors

| ACTORS | DESCRIPTION |
|------------------------------|---|
| MSA Central Services | Central services in each MS: <ul style="list-style-type: none"> · produce, submit, receive and keep SEED and reference data information including the EOL; · request and receive SEED statistics. |
| MSA Central Application | MSA Central Services application: <ul style="list-style-type: none"> · produce, submit, receive and keep SEED and reference data information including the EOL; · request and receive SEED statistics; · provide information on the reference data to economic operators. |
| 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. |
| Excise Authority | |
| SEED | The System for Exchange of Excise Data (SEED) is located in the Common Domain. It provides management and dissemination services regarding information on the Economic Operators register and the Reference Data register. It also provides exchange of SEED statistics. |
| MSA Central Application User | |
| SEED | |
| SEED User | |
| Economic Operator | Any economic operator involved at a given movement either as Consignor or as a Consignee. |

| | |
|--------------------------------|--|
| Common Domain Central Services | <p>Central services in the Common Domain:</p> <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. |
|--------------------------------|--|

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

5. PROCESS MODELS

5.1. Process L4-RDM-01-00-Reference 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 Reference 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-RDM-01-00 |
| Full Name | Reference Data Management Master Process |
| Assumptions | <p>1. The Excise Office List (EOL) is maintained conjointly with the Customs Office List (COL) by NCTS CS/RD. The NCTS CS/RD application offers the functionality of managing the data of those offices (maintenance, download, updates, and etc.).</p> <p>2. According to DDNEA (Sub-section “V.I.2.1 Introduction” of “V.I.2 Exchange of Reference Data” in DDNEA v1.91), changes to the EMCS Reference Data are disseminated by SEED to each MSA according to their dissemination profile preferences. This is also in alignment with the current system behaviour, i.e. the IE734 is disseminated to the MSAs that are registered for receiving IE734 disseminations. However, in FESS (EBP UC-105-110 “Send reference data” of FESS v3.81 Section III), it is not clarified that, in the aforementioned scenario, SEED sends the IE734 only to the MSAs who are registered to receive IE734 disseminations.</p> |
| Constraints | N/A |
| L3 Reference Models | N/A |
| Existing Specifications | Design Document for National Excise Applications - v3.12 |

Table 5.1: Process Details

5.1.3. 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|----------------------|---|
| Input Data | |
| Output Data | |
| Previous Objects | Reference Data to be updated and made available |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.2: 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 | |

Table 5.3: 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 5.4: Task Consultation of other reference data by MSA central services

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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 5.5: Task Consultation of public reference data by economic operators

Event Reference data is up-to-date

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

Table 5.6: Event Reference data is up-to-date

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

5.2.1. 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).

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

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

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

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

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

5.2.2. 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|-------------------------|--|
| | than the EOL |
| Existing Specifications | Design Document for National Excise Applications - v3.12 |

Table 5.7: Process Details

5.2.3. 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 5.8: Event Modifications to the reference data performed

Task Register modifications to the reference database

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

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

Table 5.9: 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 Message Type C_PAR_DAT |
| Output Data | C_PAR_DAT Message Type C_COD_DAT |
| Previous Objects | Register modifications to the reference database |
| Information Exchange | |
| Requirements | RDM_FUR_0009 |
| Data Set | |
| Events | |
| State | |

Table 5.10: 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

Table 5.11: Task Build Operations on the Reference Database

Task Record Operations on the Reference Database

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

Table 5.12: 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

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

Table 5.13: 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|----------------------|---|
| | |
| 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 5.14: Task Notify MSA Central Services of Operations on the Reference Database

Event Reference database modified and updates not disseminated

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

Table 5.15: 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 5.16: Event Reference database modified and updates disseminated

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

5.3. Process L4-RDM-01-02-Consultation of other reference 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 reference data by MSA central services, in accordance with the current Common Specifications (FESS and DDNEA).

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

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

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

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

5.3.2. 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 - v3.12 |

Table 5.17: Process Details

5.3.3. 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|------------------|---|
| 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 5.18: Event Common Request for re-synchronisation of the reference data received

Task Perform validation of Common Request

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

Table 5.19: 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 | |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|----------------------|--------------------------------------|
| Previous Objects | Perform validation of Common Request |
| Information Exchange | |
| Requirements | |
| Data Set | |
| Events | |
| State | |

Table 5.20: Task Handle validation results of common request

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

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

Table 5.21: 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 5.22: 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|---|---|
| | period specified. |
| Actor | SEED |
| Appears also in the following processes | L4-RDM-01-01-Maintenance and dissemination of reference data other than the EOL |
| Input Data | C_RDD_DAT |
| Output Data | C_RDD_DAT |
| Previous Objects | Common Request recorded |
| Information Exchange | |
| Requirements | RDM_FUR_0001 |
| Data Set | |
| Events | |
| State | |

Table 5.23: 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 | |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

Table 5.24: Task Record Operations on the Reference Database

Task Notify MSA Central Services of Operations on the Reference Database

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

Table 5.25: 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 5.26: Event Requested Reference Data made available to the concerned MSA

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

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

5.4.1. Objective of Process

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

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

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

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

5.4.2. 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 - v3.12 |

Table 5.27: Process Details

5.4.3. 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|------------------|--|
| 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 5.28: Event External Request for Reference Data re-synchronisation received

Task Build External List of Codes

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

Table 5.29: 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|----------------------|------------------------------|
| Input Data | E_COD_DAT |
| Output Data | E_COD_DAT |
| Previous Objects | Build External List of Codes |
| Information Exchange | |
| Requirements | RDM_FUR_0005 |
| Data Set | |
| Events | |
| State | |

Table 5.30: 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 5.31: 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 |

| |
|---|
| Excise Functional Requirements BPM Report-Reference Data Management |
| PROCESS MODELS |

| | |
|------------------|---|
| 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 5.32: Event Latest Reference Data made available to concerned Economic Operator