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DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DOCUMENT HISTORY	Ref: TARIC3-STP

EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
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DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TABLE OF CONTENTS	Ref: TARIC3-STP

TABLE OF CONTENTS

DOCUMENT HISTORY	1
1. INTRODUCTION	5
1.1. Objective of this document	5
1.2. Structure of this document	5
1.3. Intended audience	5
1.4. Abbreviations and acronyms.....	5
1.5. Reference documents	6
1.6. Applicable documents.....	6
2. DATA MAINTENANCE.....	7
2.1. Country	7
2.1.1. Test case init_ref_country_setup: Insertion of Country reference data	7
2.1.2. Test case dm_ref_ctr_insert: Insertion of a country	15
2.1.3. Test case dm_ref_ctr_update: Update of a country	44
2.1.4. Test case dm_ref_ctr_delete: Deletion of a country.....	104
2.2. Country group	112
2.2.1. Test case init_ref_country_group_setup: Insertion of country group reference data	112
2.2.2. Test case dm_ref_cg_insert: Insertion of a country group	118
2.2.3. Test case dm_ref_cg_di_insert: Insert of a Country group description	138
2.2.4. Test case dm_ref_cg_update: Update of a country group	147
2.2.5. Test case dm_ref_cg_delete: Deletion of a country group.....	203
2.2.6. Test case dm_ref_cg_di_update: Update of Country group description	208
2.3. Duty expression	223
2.3.1. Test case init_ref_de_setup: Insertion of Duty expression reference data	223
2.3.2. Test case dm_ref_de_insert: Insertion of a duty expression	229
2.3.3. Test case dm_ref_de_update: Update of a duty expression	243
2.3.4. Test case dm_ref_de_delete: Deletion of a duty expression	268
2.4. Additional code type.....	272

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.4.1.	Test case init_ref_ct_setup: Insertion of Additional code type reference data	272
2.4.2.	Test case dm_ref_ct_insert: Insertion of a additional code type	278
2.4.3.	Test case dm_ref_ct_update: Update of a additional code type	293
2.4.4.	Test case dm_ref_ct_delete: Deletion of a additional code type	321
2.5.	Additional code	328
2.5.1.	Test case init_additional_code_setup: Insertion of Additional Code reference data	328
2.5.2.	Test case dm_ref_acn_insert: Insert of an Additional code	337
2.5.3.	Test case dm_ref_acn_di_insert: Insert of an Additional Code description	359
2.5.4.	Test case dm_ref_acn_update: Update of an Additional Code	368
2.5.5.	Test case dm_ref_acn_delete: Deletion of an Additional Code	399
2.5.6.	Test case dm_ref_acn_di_update: Update of Additional Code description	402
2.6.	Agricultural duty expression	416
2.6.1.	Test case init_ref_ade_setup: Insertion of Agricultural duty expression reference data	416
2.6.2.	Test case dm_ref_ade_insert: Insertion of a agricultural duty expression	422
2.6.3.	Test case dm_ref_ade_update: Update of an agricultural duty expression	431
2.6.4.	Test case dm_ref_ade_delete: Deletion of an agricultural duty expression	445
2.7.	Agricultural measure validation rule	449
2.7.1.	Test case init_ref_amvr_setup: Insertion of Agricultural measure validation rule reference data	449
2.7.2.	Test case dm_ref_amvr_insert: Insertion of an agricultural measure validation rule	457
2.7.3.	Test case dm_ref_amvr_update: Update of an agricultural measure validation rule	462
2.7.4.	Test case dm_ref_amvr_delete: Deletion of an agricultural measure validation rule	479
3.	TEST REPORT FORM	482
3.1.	Environment description	482
3.2.	Test case execution	482

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
INTRODUCTION	Ref: TARIC3-STP
OBJECTIVE OF THIS DOCUMENT	

1. INTRODUCTION

1.1. Objective of this document

This document defines the system test plan to be followed in order to verify the functions of some specific domains of the TARIC3 CDCO system. This system test plan concerns only the system-to-system interface and is intended to validate the business logic layer of the TARIC3 CDCO system.

This document should be considered as a sub-document of the Master TARIC3 System Test Plan [TARIC3-STP] where the following domains are covered:

- Country;
- Country group;
- Duty Expression;
- Additional code type;
- Additional code;
- Agricultural duty expression;
- Agricultural measure validation rule.

1.2. Structure of this document

Chapter 2 specifies the test cases related to the maintenance of TARIC data for the specific domains as specified in section 1.1 Objective of this document.

1.3. Intended audience

This document is intended for people responsible for testing the business logic layer of the TARIC3 CDCO system.

1.4. Abbreviations and acronyms

CDCO Centrally Developed Centrally Operated

DDS Data Dissemination System

JDBC Java DataBase Connectivity

MS Member State

SQL Structured Query Language

TARIC TARif Intégré Communautaire

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
INTRODUCTION	Ref: TARIC3-STP
REFERENCE DOCUMENTS	

TIN	Trader Identification Number
UNIX	Unix operation system
VAT	Value-Added Tax
VIES	VAT Information Exchange System
XML	eXtensible Markup Language

1.5. Reference documents

[TARIC3-FTS] “TARIC3 - Functional Test Scenarios 2.00”, Ref. TARIC3-FTS

[TARIC3-ITP] “TARIC3 - Test Plan Introduction 7.10”, Ref. TARIC3-ITP

[TARIC3-STP] “TARIC3 – System Test Plan - Master”, Ref. TARIC3-STP

1.6. Applicable documents

[ARCH] “Tariff Application Technical Architecture Framework 6.00”,
Ref. TATAF

[TARIC3-FS] “TARIC3 Functional Specifications 3.00”, Ref. TARIC3-FS

[TARIC3-UI] “TARIC3-UIS - User Interface Specification 2.00
Ref. TARIC3-UI

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

2. DATA MAINTENANCE

2.1. Country

2.1.1. Test case `init_ref_country_setup`: Insertion of Country reference data

Message: `init_ref_country_setup.xml`

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr*.
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl*.
 - description 2: language id = *FR*, description = *Description francaise nl*.

Transaction 2:

- Message 1: Insert a stable country group with country group id = *1000*, start date = *2000-01-01*, country group sid = *10*, area code = *1*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group*.
 - description 2: language id = *FR*, description = *French Description of country group*.
 - description 3: language id = *NL*, description = *Dutch Description of country group*.
- Message 2: Insert a stable country group with country group id = *1001*, start date = *2000-01-01*, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

sid = 11, area code = 1:

- description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 3: Insert a stable country group with country group id = 1002, start date = 2000-01-01, country group sid = 12, area code = 1:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 4: Insert a stable country group with country group id = 1011, start date = 2008-01-01, country group sid = 13, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*

Transaction 3:

- Message 1: Insert an unstable country group with country group id = 1003, start date = 2008-01-01, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

sid = 14, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*

country group id = 1002, start date = 2000-01-01, country group sid = 12.

- Message 2: Insert an unstable country group with country group id = 1033, start date = 2008-01-01, country group sid = 15, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2007-01-01:
 - description period 1: start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*
 - indent 1: indent sid = 1, start date = 2007-01-01, indent number = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

statistical indicator = 0.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, start date = 2008-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.
 - indent 1: indent sid = 2, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 0100000000,
productline suffix = 80.

statistical indicator = 0.

- Message 3: Insert a stable goods nomenclature with goods nomenclature id = 0101010000, productline suffix = 80, start date = 2008-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.
 - indent 1: indent sid = 3, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 0100000000,
productline suffix = 80.

statistical indicator = 0.

- Message 4: Insert a stable goods nomenclature with goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of GN0101010100.*
 - description 2: language id = FR, description = *French Description of GN0101010100.*
 - description 3: language id = NL, description = *Dutch Description of GN0101010100.*
- indent 1: indent sid = 4, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 0100000000,
productline suffix = 80.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable additional code type with additional code type id = A, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code type.*
 - description 2: language id = FR, description = *French Description of additional code type.*
 - description 3: language id = NL, description = *Dutch Description of additional code type.*

application code = 0.
- Message 2: Insert a stable additional code type with additional code type id = 1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code type.*
 - description 2: language id = FR, description = *French Description of additional code type.*
 - description 3: language id = NL, description = *Dutch Description of additional code type.*

application code = 1.
- Message 3: Insert a stable additional code type with additional code type id = 2, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

application code = 4.

- Message 4: Insert a stable additional code type with additional code type id = 3, start date = 2008-01-01, end date = 2010-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code type*.
 - description 2: language id = *FR*, description = *French Description of additional code type*.
 - description 3: language id = *NL*, description = *Dutch Description of additional code type*.

application code = 3.

Transaction 7:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 001, start date = 2008-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code*.
 - description 2: language id = *FR*, description = *French Description of additional code*.
 - description 3: language id = *NL*, description = *Dutch Description of additional code*.
- Message 2: Insert a stable additional code with additional code type id = 1, additional code id = 002, start date = 2008-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of additional code.*

- description 3: language id = *NL*, description = *Dutch Description of additional code.*
- Message 3: Insert a stable additional code with additional code type id = *1*, additional code id = *003*, start date = *2008-01-01*, end date = *2008-12-31*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of additional code.*
 - description 2: language id = *FR*, description = *French Description of additional code.*
 - description 3: language id = *NL*, description = *Dutch Description of additional code.*
- Message 4: Insert a stable additional code with additional code type id = *1*, additional code id = *004*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of additional code.*
 - description 2: language id = *FR*, description = *French Description of additional code.*
 - description 3: language id = *NL*, description = *Dutch Description of additional code.*

Transaction 8:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2000-01-01*, official journal number = *AAAAA*, official journal page = *1234*.

Transaction 9:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

English Description.

- description 2: language id = *FR*, description = *French Description.*
- description 3: language id = *NL*, description = *Dutch Description.*
- Message 2: Insert a stable regulation group with regulation group id = *GGA*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English description of the Regulation Group.*
 - description 2: language id = *FR*, description = *French description of the Regulation Group.*
 - description 3: language id = *NL*, description = *Dutch description of the Regulation Group.*

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2000-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable measure type series with measure type series id = *A1*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = *0*.

- Message 2: Insert a stable measure type with measure type id = *000001*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *A1*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

trade movement code = 0, measure explosion level = 10,
measure component applicable code = 2, order number
capture code = 2, accepted via input bridge = 0.

- Message 3: Insert a stable measure type with measure type id = 001, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = A1:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 10,
measure component applicable code = 2, order number
capture code = 2, accepted via input bridge = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

2.1.2. Test case dm_ref_ctr_insert: Insertion of a country

Message: dm_ref_ctr_insert_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *WORU*, start date = *2008-01-01*, country group sid = *1*, area code = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *1*:
 - description 1: language id = *EN*, description = *English description of WORU*.
 - description 2: language id = *FR*, description = *French description of WORU*.
 - description 3: language id = *NL*, description = *Dutch description of WORU*.

Transaction 2:

- Message 1: Insert an unstable country group with country group id = *1004*, start date = *2008-01-01*, country group sid = *2*, area code = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *2*:
 - description 1: language id = *EN*, description = *English description of 1004*.
 - description 2: language id = *FR*, description = *French description of 1004*.
 - description 3: language id = *NL*, description = *Dutch description of 1004*.

country group id = *WORU*, start date = *2008-01-01*, country group sid = *1*.

Transaction 3:

- Message 1: Insert an unstable measure with measure type id = *000001*, geographical area id = *1000*, start date = *2000-01-01*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Transaction 4:

- Message 1: Insert a stable country group with country group id = *WORS*, start date = *2008-01-01*, country group sid = *3*, area code = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *3*:
 - description 1: language id = *EN*, description = *English description of WORS*.
 - description 2: language id = *FR*, description = *French description of WORS*.
 - description 3: language id = *NL*, description = *Dutch description of WORS*.

Transaction 5:

- Message 1: Insert a stable country group with country group id = *1007*, start date = *2008-01-01*, country group sid = *4*, area code = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *4*:
 - description 1: language id = *EN*, description = *English description of 1007*.
 - description 2: language id = *FR*, description = *French description of 1007*.
 - description 3: language id = *NL*, description = *Dutch description of 1007*.

country group id = *WORS*, start date = *2008-01-01*, country group sid = *3*.

Transaction 6:

- Message 1: Insert a stable country with country id = *FR*, start date = *2020-01-02*, area code = *0*:
 - description period 1: start date = *2020-01-02*:
 - description 1: language id = *EN*, description = *English Description of FR*.
 - description 2: language id = *FR*, description = *French Description of FR*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 3: language id = *NL*,
description = *Dutch Description of FR*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Message:

dm_ref_ctr_insert_01.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country with country id = *SV*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SV*.
 - description 2: language id = *FR*,
description = *French Description of SV*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV*.

Transaction 2:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.LOGICAL KEY.Country id*, operator = =, constant = *SV*.

Transaction 3:

- Message 1: Insert an unstable country with country id = *SV*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of SV*.
- description 2: language id = *FR*,
description = *French Description of SV*.
- description 3: language id = *NL*,
description = *Dutch Description of SV*.

Transaction 4:

- Message 1: Insert an unstable country with country id = *SVA*, start date = *2008/01/01*, area code = *10*:
 - description period 1: start date = *2008/01/01*:
 - description 1: language id = *EN*,
description = *English Description of SVA*.
 - description 2: language id = *FR*,
description = *French Description of SVA*.
 - description 3: language id = *NL*,
description = *Dutch Description of SVA*.

Transaction 5:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.
 - country group membership 1: country group id = *NOEX*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 6:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2009-05-01*, end date = *2008-04-01*, area code = *0*:
 - description period 1: start date = *2009-05-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of XY*.

- description 2: language id = *FR*,
description = *French Description of XY*.
- description 3: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 7:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-05-01*, area code = *0*:
 - description period 1:

Transaction 8:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-05-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 9:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, end date = *2009-01-01*, area code = *0*:
 - description period 1: start date = *2007-12-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 3: start date = 2010-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 10:

- Message 1: Insert an unstable country with country id = YX, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of YX one.*
 - description 2: language id = FR, description = *French Description of YX one.*
 - description 3: language id = NL, description = *Dutch Description of YX one.*
 - description period 2: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of YX one.*
 - description 2: language id = FR, description = *French Description of YX one.*
 - description 3: language id = NL, description = *Dutch Description of YX one.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.ref : VR-CTR-1: The combination

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

of country ID and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on country.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on area.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on country.group.membership : VR-CTR-18: The referenced country group in a country group membership must exist.

Reply to transaction 6:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 7:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.
- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 8:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 9:

- Message 1, on country.ref : OK.

Reply to transaction 10:

- Message 1, on start.date : VR-CTR-5: No two associated description periods for the same geographical area may have the same start date.

Message: dm_ref_ctr_insert_02.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

init_ref_country_setup.xml message should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country with country id = *SV*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 2:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.LOGICAL KEY.Country id*, operator = *=*, constant = *SV*.

Transaction 3:

- Message 1: Insert a stable country with country id = *SV*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 4:

- Message 1: Insert a stable country with country id = *SVA*, start date = *2008/01/01*, area code = *10*:
 - description period 1: start date = *2008/01/01*:
 - description 1: language id = *EN*, description = *English Description of SVA*.
 - description 2: language id = *FR*, description = *French Description of SVA*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 3: language id = *NL*,
description = *Dutch Description of SVA*.

Transaction 5:

- Message 1: Insert a stable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.
 - country group membership 1: country group id = *NOEX*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 6:

- Message 1: Insert a stable country with country id = *XY*, start date = *2009-05-01*, end date = *2008-04-01*, area code = *0*:
 - description period 1: start date = *2009-05-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 7:

- Message 1: Insert a stable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- country group membership 1: country group id = 1033, start date = 2008-01-01, start date = 2008-01-01.

Transaction 8:

- Message 1: Insert a stable country with country id = XY, area code = 0:
 - description period 1:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.

Transaction 9:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.
 - country group membership 1: country group id = 1033, start date = 2008-01-01, start date = 2008-01-01.

Transaction 10:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-02:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.

Transaction 11:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-05:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 12:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2007-12-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*
 - description period 2: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 13:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY one.*
 - description 2: language id = FR, description = *French Description of XY one.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 3: language id = *NL*, description = *Dutch Description of XY one*.
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of XY one*.
 - description 2: language id = *FR*, description = *French Description of XY one*.
 - description 3: language id = *NL*, description = *Dutch Description of XY one*.

Transaction 14:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of XY*.
 - description 2: language id = *FR*, description = *French Description of XY*.
 - description 3: language id = *NL*, description = *Dutch Description of XY*.
 - country group membership 1: country group id = *1003*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 15:

- Message 1: Insert a stable country with country id = *NN*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of MM*.
 - description 2: language id = *FR*, description = *French Description of MM*.
 - description 3: language id = *NL*, description = *Dutch Description of MM*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- country group membership 1: country group id = 1011, start date = 2008-01-01, start date = 2008-01-01, end date = 2008-03-01.
- country group membership 2: country group id = 1011, start date = 2008-01-01, start date = 2008-02-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.ref : VR-CTR-1: The combination of country ID and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on country.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on area.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on country.group.membership : VR-CTR-18: The referenced country group in a country group membership must exist.

Reply to transaction 6:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 7:

- Message 1, on country.group.membership : VR-CTR-11:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 8:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 9:

- Message 1, on country.group.membership : VR-CTR-11: If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 10:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 11:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 12:

- Message 1, on description.period[1] : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 13:

- Message 1, on start.date : VR-CTR-5: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 14:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 15:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

membership periods.

Message: **dm_ref_ctr_insert_03.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* and *dm_ref_ctr_insert_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *-French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.

Transaction 2:

- Message 1: Insert an unstable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *"French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.

Transaction 3:

- Message 1: Insert an unstable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *French Description of XY*
French Description of XY

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 4: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 6:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English /Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 7:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.

Transaction 8:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English kg. Description of XY*.
 - description 2: language id = *FR*,
description = *French kg Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch kg; Description of XY*.

Transaction 9:

- Message 1: Insert an unstable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg: Description of XY.*
 - description 2: language id = FR, description = *French kg, Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 10:

- Message 1: Insert an unstable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = NL, description = *Dutch Description of XY.*

Transaction 11:

- Message 1: Insert an unstable country with country id = PP, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of PP.*
 - description 2: language id = FR, description = *French Description of PP.*
 - description 3: language id = NL, description = *Dutch Description of PP.*
 - country group membership 1: country group id = 1004, start date = 2008-01-01, country group sid = 2, start date = 2008-01-01.

Transaction 12:

- Message 1: Insert an unstable country with country id = MM, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of MM.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 2: language id = *FR*, description = *French Description of MM*.
- description 3: language id = *NL*, description = *Dutch Description of MM*.
- country group membership 1: country group id = *WORU*, start date = *2008-01-01*, country group sid = *1*, start date = *2008-01-01*, end date = *2008-06-01*.
- country group membership 2: country group id = *1004*, start date = *2008-01-01*, country group sid = *2*, start date = *2008-01-01*, end date = *2008-12-01*.

Transaction 13:

- Message 1: Insert an unstable country with country id = *NN*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of MM*.
 - description 2: language id = *FR*, description = *French Description of MM*.
 - description 3: language id = *NL*, description = *Dutch Description of MM*.
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2008-03-01*.
 - country group membership 2: country group id = *1033*, start date = *2008-01-01*, start date = *2008-02-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 11:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 12:

- Message 1, on country.ref : OK.

Reply to transaction 13:

- Message 1, on country.ref : OK.

Message: **dm_ref_ctr_insert_04.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* and *dm_ref_ctr_insert_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.
 - description 2: language id = FR, description = *-French Description of XY*.
 - description 3: language id = NL, description = *Dutch Description of XY*.

Transaction 2:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *Dutch Description of XY.*

Transaction 5:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = XX, description = *Description of XY in a non existing language.*
 - description 4: language id = NL, description = *Dutch Description of XY.*

Transaction 6:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 7:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR, description = *French Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 8:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg. Description of XY.*
 - description 2: language id = FR, description = *French kg Description of XY.*
 - description 3: language id = NL, description = *Dutch kg; Description of XY.*

Transaction 9:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg: Description of XY.*
 - description 2: language id = FR, description = *French kg, Description of XY.*
 - description 3: language id = NL, description = *Dutch Description of XY.*

Transaction 10:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = NL, description = *Dutch Description of XY.*

Transaction 11:

- Message 1: Insert a stable country with country id = XY, start date = 2008-01-01, end date = 2008-12-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XY.*
 - description 2: language id = FR,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of XY*.

- description 3: language id = *NL*,
description = *Dutch Description of XY*.

- country group membership 1: country group id = *1000*, start date = *2000-01-01*, start date = *2008-01-01*, end date = *2008-12-31*.

Transaction 12:

- Message 1: Insert a stable country with country id = *XY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XY*.
 - description 2: language id = *FR*,
description = *French Description of XY*.
 - description 3: language id = *NL*,
description = *Dutch Description of XY*.
 - country group membership 1: country group id = *1000*, start date = *2000-01-01*, start date = *2008-01-01*, end date = *2008-03-01*.
 - country group membership 2: country group id = *1000*, start date = *2000-01-01*, start date = *2008-02-01*.

Transaction 13:

- Message 1: Insert a stable country with country id = *WW*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of WW*.
 - description 2: language id = *FR*,
description = *French Description of WW*.
 - description 3: language id = *NL*,
description = *Dutch Description of WW*.
 - country group membership 1: country group id = *1007*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 14:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1: Insert a stable country with country id = *YY*, start date = *2008-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of YY*.
 - description 2: language id = *FR*, description = *French Description of YY*.
 - description 3: language id = *NL*, description = *Dutch Description of YY*.
 - country group membership 1: country group id = *WORS*, start date = *2008-01-01*, country group sid = *3*, start date = *2008-01-01*, end date = *2008-06-01*.
 - country group membership 2: country group id = *1007*, start date = *2008-01-01*, country group sid = *4*, start date = *2008-01-01*, end date = *2008-12-01*.

Transaction 15:

- Message 1: Insert a stable country with country id = *XT*, start date = *1999-01-01*, area code = *0*:
 - description period 1: start date = *1999-01-01*:
 - description 1: language id = *EN*, description = *English Description of XT*.
 - description 2: language id = *FR*, description = *French Description of XT*.
 - description 3: language id = *NL*, description = *Dutch Description of XT*.
 - country group membership 1: country group id = *1000*, start date = *2000-01-01*, start date = *1999-01-01*.

Transaction 16:

- Message 1: Insert a stable country with country id = *FR*, start date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-06-01*:
 - description 1: language id = *EN*, description = *English Description of FR*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of FR*.

- description 3: language id = *NL*,
description = *Dutch Description of FR*.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 11:

- Message 1, on country.group.membership.ref : VR-CTR-6: The validity period of a membership must be within (inclusive) the validity period of the country.

Reply to transaction 12:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 13:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 14:

- Message 1, on country.group.membership[2] : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

Reply to transaction 15:

- Message 1, on country.group.membership : VR-CTR-19: The validity period of a membership must be within

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

(inclusive) the validity period of the country group.

Reply to transaction 16:

- Message 1, on country.ref : VR-CTR-26: The validity period of the geographical area must not overlap any other geographical area with the same geographical area ID.

2.1.3. Test case dm_ref_ctr_update: Update of a country

Message: dm_ref_ctr_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 2:

- Message 1: Insert an unstable country with country id = *SF*, start date = *2008-01-01*, country sid = *102*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1: Insert a stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 4:

- Message 1: Insert an unstable country with country id = *ME*, start date = *2008-01-01*, country sid = *104*, end date = *2009-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 5:

- Message 1: Insert an unstable measure with measure type id = *000001*, geographical area id = *ME*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 6:

- Message 1: Insert a stable country with country id = *MX*, start date = *2008-01-01*, country sid = *106*, end date = *2009-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of MX*.
 - description 2: language id = *FR*, description = *French Description of MX*.
 - description 3: language id = *NL*, description = *Dutch Description of MX*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Transaction 7:

- Message 1: Insert a stable measure with measure type id = 000001, geographical area id = MX, goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-01, end date = 2008-12-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801010, regulation role type = 1.

Transaction 8:

- Message 1: Insert a stable country with country id = MG, start date = 2008-01-01, country sid = 108, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of MG.*
 - description 2: language id = FR, description = *French Description of MG.*
 - description 3: language id = NL, description = *Dutch Description of MG.*

Transaction 9:

- Message 1: Insert a stable measure with measure type id = 000001, geographical area id = MG, goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1.

Transaction 10:

- Message 1: Insert a stable country with country id = NE, start date = 2008-01-01, country sid = 110, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of NE.*
 - description 2: language id = FR, description = *French Description of NE.*
 - description 3: language id = NL, description = *Dutch Description of NE.*

Transaction 11:

- Message 1: Insert a stable country with country id = EE, start date = 2007-01-01, country sid = 111, area code = 0:
 - description period 1: start date = 2007-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of EE*.
 - description 2: language id = *FR*,
description = *French Description of EE*.
 - description 3: language id = *NL*,
description = *Dutch Description of EE*.
- country group membership 1: country group id = *1000*, start date = *2000-01-01*, start date = *2007-12-01*.

Transaction 12:

- Message 1: Insert a stable measure with measure type id = *000001*, geographical area id = *1000*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - excluded area 1: geographical area id = *EE*, start date = *2007-01-01*.

Transaction 13:

- Message 1: Insert a stable country with country id = *KK*, start date = *2008-01-01*, country sid = *113*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of KK*.
 - description 2: language id = *FR*,
description = *French Description of KK*.
 - description 3: language id = *NL*,
description = *Dutch Description of KK*.
 - description period 2: start date = *2008-02-02*:
 - description 1: language id = *EN*,
description = *English Description of KK*.
 - description 2: language id = *FR*,
description = *French Description of KK*.
 - description 3: language id = *NL*,
description = *Dutch Description of KK*.

Transaction 14:

- Message 1: Insert a stable country with country id = *XU*, start date = *2008-01-01*, country sid = *114*, area code =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

0:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XU*.
 - description 2: language id = FR, description = *French Description of XU*.
 - description 3: language id = NL, description = *Dutch Description of XU*.

Transaction 15:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = 001, geographical area id = XU, start date = 2008-01-01, measure agricultural duty expression rule sid = 1401, end date = 2009-01-01.

Transaction 16:

- Message 1: Insert a stable country with country id = XS, start date = 2008-01-01, country sid = 116, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of XS*.
 - description 2: language id = FR, description = *French Description of XS*.
 - description 3: language id = NL, description = *Dutch Description of XS*.

Transaction 17:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = 001, geographical area id = XS, start date = 2008-01-01, measure agricultural duty expression rule sid = 1701, end date = 2009-01-01.

Transaction 18:

- Message 1: Insert a stable country with country id = VU, start date = 2008-01-01, country sid = 118, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of VU*.
 - description 2: language id = FR, description = *French Description of VU*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 3: language id = *NL*,
description = *Dutch Description of VU*.

Transaction 19:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *001*, geographical area id = *VU*, start date = *2008-01-01*, maximum value reduction indicator = *9*.

Transaction 20:

- Message 1: Insert a stable country with country id = *VS*, start date = *2008-01-01*, country sid = *120*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of VS*.
 - description 2: language id = *FR*,
description = *French Description of VS*.
 - description 3: language id = *NL*,
description = *Dutch Description of VS*.

Transaction 21:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *001*, geographical area id = *VS*, start date = *2008-01-01*, maximum value reduction indicator = *9*, end date = *2009-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Message: dm_ref_ctr_update_setup_02.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country with country id = *SV*, start date = *2000-12-12*, country sid = *200*, area code = *0*:
 - description period 1: start date = *2000-12-12*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 2:

- Message 1: Insert an unstable country group with country group id = *CGRO*, start date = *2000-01-01*, country group sid = *301*, area code = *1*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English description of*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

CGRO.

- description 2: language id = *FR*,
description = *French description of CGRO.*
- description 3: language id = *NL*,
description = *Dutch description of CGRO.*

Transaction 3:

- Message 1: Insert an unstable country with country id = *OO*, start date = *2000-01-01*, country sid = *201*, area code = *0*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description of OO.*
 - description 2: language id = *FR*,
description = *French Description of OO.*
 - description 3: language id = *NL*,
description = *Dutch Description of OO.*
 - country group membership 1: country group id = *CGRO*, start date = *2000-01-01*, country group sid = *301*, start date = *2000-01-01*.

Transaction 4:

- Message 1: Insert an unstable country group with country group id = *CGRL*, start date = *2000-01-01*, country group sid = *302*, area code = *1*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English description of CGRL.*
 - description 2: language id = *FR*,
description = *French description of CGRL.*
 - description 3: language id = *NL*,
description = *Dutch description of CGRL.*

Transaction 5:

- Message 1: Insert a stable country group with country group id = *CGRS*, start date = *2000-01-01*, country group sid = *303*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English description of CGRS.*
 - description 2: language id = FR, description = *French description of CGRS.*
 - description 3: language id = NL, description = *Dutch description of CGRS.*

Transaction 6:

- Message 1: Insert an unstable country with country id = LL, start date = 2000-01-01, country sid = 202, area code = 0:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of LL.*
 - description 2: language id = FR, description = *French Description of LL.*
 - description 3: language id = NL, description = *Dutch Description of LL.*
 - country group membership 1: country group id = CGRL, start date = 2000-01-01, country group sid = 302, start date = 2000-01-01.

Transaction 8:

- Message 1: Insert a stable country with country id = FR, start date = 2020-01-02, country sid = 203, area code = 0:
 - description period 1: start date = 2020-01-02:
 - description 1: language id = EN, description = *English Description of FR.*
 - description 2: language id = FR, description = *French Description of FR.*
 - description 3: language id = NL, description = *Dutch Description of FR.*

Transaction 9:

- Message 1: Insert a stable country group with country group id = MONS, start date = 2008-01-01, country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

group sid = 304, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of MONS.*
 - description 2: language id = FR, description = *French description of MONS.*
 - description 3: language id = NL, description = *Dutch description of MONS.*

Transaction 10:

- Message 1: Insert a stable country group with country group id = 1997, start date = 2008-01-01, country group sid = 305, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 1997.*
 - description 2: language id = FR, description = *French description of 1997.*
 - description 3: language id = NL, description = *Dutch description of 1997.*

country group id = MONS, start date = 2008-01-01, country group sid = 304.

Transaction 11:

- Message 1: Insert an unstable country with country id = KL, start date = 2008-01-01, country sid = 204, area code = 0:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of KL.*
 - description 2: language id = FR, description = *French Description of KL.*
 - description 3: language id = NL, description = *Dutch Description of KL.*

- country group membership 1: country group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

1997, start date = 2008-01-01, country group sid = 305, start date = 2008-01-01, end date = 2020-01-01.

- country group membership 2: country group id = MONS, start date = 2008-01-01, country group sid = 304, start date = 2008-01-01, end date = 2050-01-01.

Transaction 12:

- Message 1: Insert a stable country with country id = YL, start date = 2008-01-01, country sid = 205, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of YL.*
 - description 2: language id = FR, description = *French Description of YL.*
 - description 3: language id = NL, description = *Dutch Description of YL.*
 - country group membership 1: country group id = 1997, start date = 2008-01-01, country group sid = 305, start date = 2008-01-01, end date = 2020-01-01.
 - country group membership 2: country group id = MONS, start date = 2008-01-01, country group sid = 304, start date = 2008-01-01, end date = 2050-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Message: **dm_ref_ctr_update_01.xml**

Precondition: Make sure the *dm_ref_ctr_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-04-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, country group sid = *15*, start date = *2008-04-01*.

Transaction 2:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.LOGICAL KEY.Country id*, operator = *=*, constant = *SV*.

Transaction 3:

- Message 1: Update the unstable country with country id = *XX*, start date = *2008-04-01*, country sid = *999*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of SV.*

- description 3: language id = *NL*,
description = *Dutch Description of SV.*

Transaction 4:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-04-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of SV.*
 - description 2: language id = *FR*,
description = *French Description of SV.*
 - description 3: language id = *NL*,
description = *Dutch Description of SV.*
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, country group sid = *15*, start date = *2008-04-01*.
 - country group membership 2: country group id = *NOEX*, start date = *2008-01-01*, start date = *2008-04-01*.

Transaction 5:

- Message 1: Update the unstable country with country id = *SV*, start date = *2009-05-01*, country sid = *101*, end date = *2008-04-01*, area code = *0*:
 - description period 1: start date = *2009-05-01*:
 - description 1: language id = *EN*,
description = *English Description of SV.*
 - description 2: language id = *FR*,
description = *French Description of SV.*
 - description 3: language id = *NL*,
description = *Dutch Description of SV.*
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, country group sid = *15*, start date = *2008-04-01*.

Transaction 6:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-04-01*, country sid = *101*, area code = *0*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2008-04-01:
 - description 1: language id = EN, description = *English Description of SV*.
 - description 2: language id = FR, description = *French Description of SV*.
 - description 3: language id = NL, description = *Dutch Description of SV*.
- country group membership 1: country group id = 1033, start date = 2008-01-01, country group sid = 15, start date = 2008-04-01.
- country group membership 2: country group id = 1002, start date = 2000-01-01, start date = 2008-04-01.

Transaction 7:

- Message 1: Update the unstable country with country id = SV, country sid = 101, area code = 0:
 - description period 1: start date = 2008-04-01:
 - description 1: language id = EN, description = *English Description of SV*.
 - description 2: language id = FR, description = *French Description of SV*.
 - description 3: language id = NL, description = *Dutch Description of SV*.
 - country group membership 1: country group id = 1000, start date = 2000-01-01, country group sid = 10, start date = 2008-04-01.

Transaction 8:

- Message 1: Update the stable country with country id = SD, start date = 2008-01-01, country sid = 103, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SD*.
 - description 2: language id = FR, description = *French Description of SD*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *Dutch Description of SD*.

- country group membership 1: country group id = 1033, start date = 2008-01-01, country group sid = 15, start date = 2008-01-01.

Transaction 9:

- Message 1: Update the unstable country with country id = SV, start date = 2008-04-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-06-01:
 - description 1: language id = EN, description = *English Description of SV*.
 - description 2: language id = FR, description = *French Description of SV*.
 - country group membership 1: country group id = 1033, start date = 2008-01-01, country group sid = 15, start date = 2008-01-01.

Transaction 10:

- Message 1: Update the unstable country with country id = SV, start date = 2008-04-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-05-01:
 - description 1: language id = EN, description = *English Description of SV*.
 - description 2: language id = FR, description = *French Description of SV*.
 - description 3: language id = NL, description = *Dutch Description of SV*.

Transaction 11:

- Message 1: Update the unstable country with country id = SV, start date = 2008-04-01, country sid = 101, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description of SV*.
 - description 2: language id = FR, description = *French Description of SV*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *Dutch Description of SV*.

Transaction 12:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-04-01*, country sid = *101*, end date = *2009-01-01*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
 - description period 2: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 13:

- Message 1: Update the unstable country with country id = *ME*, start date = *2008-01-01*, country sid = *104*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of ME*.
 - description 2: language id = *FR*, description = *French Description of ME*.
 - description 3: language id = *NL*, description = *Dutch Description of ME*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1, on country.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on country.group.membership[2] : VR-CTR-18: The referenced country group in a country group membership must exist.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on country.ref : OK.

Reply to transaction 7:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 8:

- Message 1, on country.group.membership : VR-CTR-11: If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 9:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 10:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 11:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 12:

- Message 1, on start.date : VR-CTR-5: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 13:

- Message 1, on country.ref : OK.

Message: dm_ref_ctr_update_02.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Precondition: Make sure the *dm_ref_ctr_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country with country id = *SV*, start date = *2008-04-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
 - country group membership 1: country group id = *1000*, start date = *2000-01-01*, country group sid = *10*, start date = *2008-04-01*.

Transaction 2:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = *=*, constant = *101*.

Transaction 3:

- Message 1: Update the stable country with country id = *XX*, start date = *2008-01-01*, country sid = *99*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 4:

- Message 1: Update the stable country with country id = *SF*, start date = *2008-01-01*, country sid = *102*, area code = *0*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
- country group membership 1: country group id = *NOEX*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 5:

- Message 1: Update the stable country with country id = *SF*, start date = *2009-05-01*, country sid = *102*, end date = *2008-04-01*, area code = *0*:
 - description period 1: start date = *2009-05-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.

Transaction 6:

- Message 1: Update the stable country with country id = *SF*, start date = *2008-01-01*, country sid = *102*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, country group sid = *15*, start date = *2008-01-01*.

Transaction 7:

- Message 1: Update the stable country with country id = *SF*, country sid = *102*, area code = *0*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SF*.
 - description 2: language id = FR, description = *French Description of SF*.
 - description 3: language id = NL, description = *Dutch Description of SF*.

Transaction 8:

- Message 1: Update the stable country with country id = SF, start date = 2008-01-01, country sid = 102, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2008-05-01:
 - description 1: language id = EN, description = *English Description of SF*.
 - description 2: language id = FR, description = *French Description of SF*.
 - description 3: language id = NL, description = *Dutch Description of SF*.

Transaction 9:

- Message 1: Update the stable country with country id = SF, start date = 2008-01-01, country sid = 102, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2007-12-01:
 - description 1: language id = EN, description = *English Description of SF one*.
 - description 2: language id = FR, description = *French Description of SF one*.
 - description 3: language id = NL, description = *Dutch Description of SF one*.

Transaction 10:

- Message 1: Update the stable country with country id = SF, start date = 2008-01-01, country sid = 102, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of SF*.

- description 2: language id = *FR*,
description = *French Description of SF*.
- description 3: language id = *NL*,
description = *Dutch Description of SF*.
- description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF two*.
 - description 2: language id = *FR*,
description = *French Description of SF two*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF two*.

Transaction 11:

- Message 1: Update the stable country with country id = *SF*, start date = *2008-01-01*, country sid = *102*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
 - country group membership 1: country group id = *1000*, start date = *2000-01-01*, country group sid = *10*, start date = *2008-01-01*, end date = *2009-01-01*.
 - country group membership 2: country group id = *1000*, start date = *2000-01-01*, country group sid = *10*, start date = *2008-01-01*.

Transaction 12:

- Message 1: Update the stable country with country id = *MX*, start date = *2008-01-01*, country sid = *106*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of MX*.
- description 2: language id = *FR*,
description = *French Description of MX*.
- description 3: language id = *NL*,
description = *Dutch Description of MX*.

Transaction 13:

- Message 1: Update the stable country with country id = *XU*, start date = *2008-01-01*, country sid = *114*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SV one*.
 - description 2: language id = *FR*,
description = *French Description of SV one*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV one*.

Transaction 14:

- Message 1: Update the stable country with country id = *VU*, start date = *2008-01-01*, country sid = *118*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of VU*.
 - description 2: language id = *FR*,
description = *French Description of VU*.
 - description 3: language id = *NL*,
description = *Dutch Description of VU*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1, on country.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on country.group.membership : VR-CTR-18: The referenced country group in a country group membership must exist.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 6:

- Message 1, on country.ref : OK.

Reply to transaction 7:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 8:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 9:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 10:

- Message 1, on start.date : VR-CTR-5: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 11:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 12:

- Message 1, on country : VR-CTR-7: The validity period of the country must always span the validity period of the referencing measure (as an origin/destination or excluded area).

Reply to transaction 13:

- Message 1, on country : VR-CTR-8: The validity period of the country must span the validity period of the measures-agricultural duty expressions rules where the country is referenced.

Reply to transaction 14:

- Message 1, on country : VR-CTR-9: The validity period of the country must span the validity period of the agricultural measures validation rules where the country is referenced.

Message: **dm_ref_ctr_update_03.xml**

Precondition: Make sure the *dm_ref_ctr_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-04-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SD*.
 - description 2: language id = *FR*, description = *French Description of SD*.
 - description 3: language id = *NL*, description = *Dutch Description of SD*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- country group membership 1: country group id = 1000, start date = 2000-01-01, country group sid = 10, start date = 2008-04-01.

Transaction 2:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = 103.

Transaction 3:

- Message 1: Update the stable country with country id = *XX*, start date = 2008-04-01, country sid = 99, area code = 0:
 - description period 1: start date = 2008-04-01:
 - description 1: language id = *EN*, description = *English Description of XX*.
 - description 2: language id = *FR*, description = *French Description of XX*.
 - description 3: language id = *NL*, description = *Dutch Description of XX*.

Transaction 4:

- Message 1: Update the stable country with country id = *SD*, start date = 2008-04-01, country sid = 103, area code = 0:
 - description period 1: start date = 2008-04-01:
 - description 1: language id = *EN*, description = *English Description of SD*.
 - description 2: language id = *FR*, description = *French Description of SD*.
 - description 3: language id = *NL*, description = *Dutch Description of SD*.
 - country group membership 1: country group id = *NOEX*, start date = 2008-01-01, start date = 2008-04-01.

Transaction 5:

- Message 1: Update the stable country with country id = *SD*, start date = 2009-05-01, country sid = 103, end date = 2008-04-01, area code = 0:
 - description period 1: start date = 2009-05-01:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of SD*.

- description 2: language id = *FR*,
description = *French Description of SD*.
- description 3: language id = *NL*,
description = *Dutch Description of SD*.

Transaction 6:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-04-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,
description = *French Description of SD*.
 - description 3: language id = *NL*,
description = *Dutch Description of SD*.
 - country group membership 1: country group id = *1033*, start date = *2008-01-01*, start date = *2008-04-01*.

Transaction 7:

- Message 1: Update the stable country with country id = *SD*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,
description = *French Description of SD*.
 - description 3: language id = *NL*,
description = *Dutch Description of SD*.

Transaction 8:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-04-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of SD*.

- description 3: language id = *NL*,
description = *Dutch Description of SD*.

- country group membership 1: country group id = *1033*, start date = *2008-01-01*, start date = *2008-04-01*.

Transaction 9:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-05*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,
description = *French Description of SD*.
 - description 3: language id = *NL*,
description = *Dutch Description of SD*.

Transaction 10:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, end date = *2009-01-01*, area code = *0*:
 - description period 1: start date = *2007-12-01*:
 - description 1: language id = *EN*,
description = *English Description of SD 1*.
 - description 2: language id = *FR*,
description = *French Description of SD 1*.
 - description 3: language id = *NL*,
description = *Dutch Description of SD 1*.
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SD 2*.
 - description 2: language id = *FR*,
description = *French Description of SD 2*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *Dutch Description of SD 2.*

Transaction 11:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SD one.*
 - description 2: language id = *FR*, description = *French Description of SD one.*
 - description 3: language id = *NL*, description = *Dutch Description of SD one.*
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SD two.*
 - description 2: language id = *FR*, description = *French Description of SD two.*
 - description 3: language id = *NL*, description = *Dutch Description of SD two.*

Transaction 12:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-04-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of SD.*
 - description 2: language id = *FR*, description = *French Description of SD.*
 - description 3: language id = *NL*, description = *Dutch Description of SD.*
 - country group membership 1: country group id = *1000*, start date = *2000-01-01*, country group sid = *10*, start date = *2008-04-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- country group membership 2: country group id = 1000, start date = 2000-01-01, country group sid = 10, start date = 2009-01-01.

Transaction 13:

- Message 1: Update the stable country with country id = MG, start date = 2008-01-01, country sid = 108, end date = 2008-06-01, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of MG.*
 - description 2: language id = FR, description = *French Description of MG.*
 - description 3: language id = NL, description = *Dutch Description of MG.*

Transaction 14:

- Message 1: Update the stable country with country id = EE, start date = 2007-01-01, country sid = 111, end date = 2009-01-01, area code = 0:
 - description period 1: start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description of EE.*
 - description 2: language id = FR, description = *French Description of EE.*
 - description 3: language id = NL, description = *Dutch Description of EE.*
 - country group membership 1: country group id = 1000, start date = 2000-01-01, start date = 2007-12-01, end date = 2007-12-31.

Transaction 16:

- Message 1: Update the stable country with country id = KK, start date = 2008-01-01, country sid = 113, area code = 0:
 - description period 1: start date = 2008-02-02:
 - description 1: language id = EN, description = *English Description of KK.*
 - description 2: language id = FR, description = *French Description of KK.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 3: language id = *NL*,
description = *Dutch Description of KK*.

Transaction 17:

- Message 1: Update the stable country with country id = *XS*, start date = *2008-01-01*, country sid = *116*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of XS*.
 - description 2: language id = *FR*,
description = *French Description of XS*.
 - description 3: language id = *NL*,
description = *Dutch Description of XS*.

Transaction 18:

- Message 1: Update the stable country with country id = *VS*, start date = *2008-01-01*, country sid = *120*, end date = *2008-06-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of VS*.
 - description 2: language id = *FR*,
description = *French Description of VS*.
 - description 3: language id = *NL*,
description = *Dutch Description of VS*.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on country.group.membership : VR-CTR-18:
The referenced country group in a country group membership must exist.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 6:

- Message 1, on country.group.membership : VR-CTR-11: If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 7:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.
- Message 1, on description.period : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 8:

- Message 1, on country.group.membership : VR-CTR-11: If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 9:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 10:

- Message 1, on description.period[1] : VR-CTR-4: The start date of the description period must be enclosed by the validity period of the country.

Reply to transaction 11:

- Message 1, on start.date : VR-CTR-5: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 12:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 13:

- Message 1, on country : VR-CTR-7: The validity period of the country must always span the validity period of the referencing measure (as an origin/destination or excluded area).

Reply to transaction 14:

- Message 1, on country.group.membership.list : VR-CTR-20: The membership period of a country must overlap the validity period of the measure when used as an excluded area.

Reply to transaction 16:

- Message 1, on description.period.list : VR-CTR-3: A description period having the same start date as the country is mandatory.

Reply to transaction 17:

- Message 1, on country : VR-CTR-8: The validity period of the country must span the validity period of the measures-agricultural duty expressions rules where the country is referenced.

Reply to transaction 18:

- Message 1, on country : VR-CTR-9: The validity period of the country must span the validity period of the agricultural measures validation rules where the country is referenced.

Message: dm_ref_ctr_update_04.xml

Precondition: Make sure the dm_ref_ctr_update_setup_01.xml and dm_ref_ctr_update_setup_02.xml messages have been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable country with country id = SV, start date = 2008-01-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of SV.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Transaction 4:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *FR*, description = *Second French Description of SV*.
 - description 4: language id = *NL*, description = *Dutch Description of SV*.

Transaction 5:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *XX*, description = *Description of SV in a non existing language (XX)*.
 - description 4: language id = *NL*, description = *Dutch Description of SV*.

Transaction 6:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV* /.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *Dutch Description of SV.*

Transaction 7:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV.*
 - description 2: language id = *FR*, description = *French Description of SV.*
 - description 3: language id = *NL*, description = *Dutch Description of SV.*

Transaction 8:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of SV.*
 - description 2: language id = *FR*, description = *French kg Description of SV.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of SV.*

Transaction 9:

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg: Description of SV.*
 - description 2: language id = *FR*, description = *French kg, Description of SV.*
 - description 3: language id = *NL*, description = *Dutch Description of SV.*

Transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *200*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.

Transaction 11:

- Message 1: Update the unstable country with country id = *GP*, start date = *2000-12-12*, country sid = *200*, area code = *0*:
 - description period 1: start date = *2000-12-12*:
 - description 1: language id = *EN*, description = *English Description of GP*.
 - description 2: language id = *FR*, description = *French Description of GP*.
 - description 3: language id = *NL*, description = *Dutch Description of GP*.

Transaction 12:

- Message 1: Update the unstable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SD*.
 - description 2: language id = *FR*, description = *French Description of SD*.
 - description 3: language id = *NL*, description = *Dutch Description of SD*.

Transaction 13:

- Message 1: Update the unstable country with country id = *LL*, start date = *2000-01-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of LL.*

- description 2: language id = *FR*,
description = *French Description of LL.*
- description 3: language id = *NL*,
description = *Dutch Description of LL.*

Transaction 14:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = 202.

Transaction 15:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 302.

Transaction 16:

- Message 1: Update the unstable country with country id = *LL*, start date = *2000-01-01*, country sid = 202, area code = 0:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description of LL.*
 - description 2: language id = *FR*,
description = *French Description of LL.*
 - description 3: language id = *NL*,
description = *Dutch Description of LL.*
 - country group membership 1: country group id = *CGRS*, start date = *2000-01-01*, country group sid = 303, start date = *2000-01-01*.

Transaction 17:

- Message 1: Update the unstable country with country id = *LL*, start date = *2000-01-01*, country sid = 202, area code = 0:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description of LL.*
 - description 2: language id = *FR*,
description = *French Description of LL.*
 - description 3: language id = *NL*,
description = *Dutch Description of LL.*

Transaction 18:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1: Update the unstable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
 - country group membership 1: country group id = *1997*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 19:

- Message 1: Update the unstable country with country id = *KL*, start date = *2008-01-01*, country sid = *204*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of KL*.
 - description 2: language id = *FR*, description = *French Description of KL*.
 - description 3: language id = *NL*, description = *Dutch Description of KL*.
 - country group membership 1: country group id = *1997*, start date = *2008-01-01*, country group sid = *305*, start date = *2008-01-01*, end date = *2020-01-01*.
 - country group membership 2: country group id = *MONS*, start date = *2008-01-01*, country group sid = *304*, start date = *2008-01-01*, end date = *2010-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on country.ref : OK.

Reply to transaction 11:

- Message 1, on country.ref : VR-CTR-2: The country ID cannot be updated.

Reply to transaction 12:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 13:

- Message 1, on country.ref : OK.

Reply to transaction 14:

- Message 1 : OK.

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1, on country.ref : OK.

Reply to transaction 17:

- Message 1, on country.ref : OK.

Reply to transaction 18:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 19:

- Message 1, on country.ref : OK.

Message: dm_ref_ctr_update_05.xml

Precondition: Make sure the dm_ref_ctr_update_setup_01.xml and dm_ref_ctr_update_setup_02.xml messages have been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Description of SV French Description of SV.

- description 3: language id = *NL*, description = *Dutch Description of SV.*

Transaction 4:

- Message 1: Update the stable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV.*
 - description 2: language id = *FR*, description = *French Description of SV.*
 - description 3: language id = *FR*, description = *Second French Description of SV.*
 - description 4: language id = *NL*, description = *Dutch Description of SV.*

Transaction 5:

- Message 1: Update the stable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV.*
 - description 2: language id = *FR*, description = *French Description of SV.*
 - description 3: language id = *XX*, description = *Description of SV in a non existing language (XX).*
 - description 4: language id = *NL*, description = *Dutch Description of SV.*

Transaction 6:

- Message 1: Update the stable country with country id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

SV, start date = 2008-01-01, country sid = 101, area code = 0:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SV.*
 - description 2: language id = FR, description = *French Description of SV.*
 - description 3: language id = NL, description = *Dutch Description of SV.*

Transaction 7:

- Message 1: Update the stable country with country id = SV, start date = 2008-01-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SV.*
 - description 2: language id = FR, description = *French Description of SV.*
 - description 3: language id = NL, description = *Dutch Description of SV.*

Transaction 8:

- Message 1: Update the stable country with country id = SV, start date = 2008-01-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg. Description of SV.*
 - description 2: language id = FR, description = *French kg Description of SV.*
 - description 3: language id = NL, description = *Dutch kg; Description of SV.*

Transaction 9:

- Message 1: Update the stable country with country id = SV, start date = 2008-01-01, country sid = 101, area code = 0:
 - description period 1: start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English kg: Description of SV*.
- description 2: language id = *FR*,
description = *French kg, Description of SV*.
- description 3: language id = *NL*,
description = *Dutch Description of SV*.

Transaction 10:

- Message 1: Update the stable country with country id = *GP*, start date = *2000-12-12*, country sid = *200*, area code = *0*:
 - description period 1: start date = *2000-12-12*:
 - description 1: language id = *EN*,
description = *English Description of GP*.
 - description 2: language id = *FR*,
description = *French Description of GP*.
 - description 3: language id = *NL*,
description = *Dutch Description of GP*.

Transaction 11:

- Message 1: Update the stable country with country id = *SV*, start date = *1999-01-01*, country sid = *200*, area code = *0*:
 - description period 1: start date = *1999-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SV*.
 - description 2: language id = *FR*,
description = *French Description of SV*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV*.
 - country group membership 1: country group id = *CGRS*, start date = *2000-01-01*, country group sid = *303*, start date = *1999-01-01*.

Transaction 12:

- Message 1: Update the stable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of SV*.
- description 2: language id = *FR*,
description = *French Description of SV*.
- description 3: language id = *NL*,
description = *Dutch Description of SV*.

Transaction 13:

- Message 1: Update the stable country with country id = *SV*, start date = *2000-12-12*, country sid = *200*, area code = *0*:
 - description period 1: start date = *2000-12-12*:
 - description 1: language id = *EN*,
description = *English Description of SV*.
 - description 2: language id = *FR*,
description = *French Description of SV*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV*.

Transaction 14:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = *201*.

Transaction 15:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = *301*.

Transaction 16:

- Message 1: Update the stable country with country id = *OO*, start date = *2000-01-01*, country sid = *201*, area code = *0*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description of OO*.
 - description 2: language id = *FR*,
description = *French Description of OO*.
 - description 3: language id = *NL*,
description = *Dutch Description of OO*.
 - country group membership 1: country group id = *CGRO*, start date = *2000-01-01*, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

sid = 301, start date = 2000-01-01.

Transaction 17:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = 201.

Transaction 18:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 301.

Transaction 19:

- Message 1: Update the stable country group with country group id = *CGRO*, start date = 2000-01-01, country group sid = 301, area code = 1:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = *EN*, description = *English description of CGRO*.
 - description 2: language id = *FR*, description = *French description of CGRO*.
 - description 3: language id = *NL*, description = *Dutch description of CGRO*.
 - country member 1: country id = *OO*, start date = 2000-01-01, country sid = 201, start date = 2000-01-01.

Transaction 20:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = 201.

Transaction 21:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 301.

Transaction 22:

- Message 1: Update the unstable country with country id = *LL*, start date = 2008-04-01, country sid = 202, area code = 0:
 - description period 1: start date = 2008-04-01:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of LL*.

- description 2: language id = *FR*,
description = *French Description of LL*.
- description 3: language id = *NL*,
description = *Dutch Description of LL*.

- country group membership 1: country group id = *CGRL*, start date = *2000-01-01*, country group sid = *302*, start date = *2008-04-01*.
- country group membership 2: country group id = *CGRS*, start date = *2000-01-01*, country group sid = *303*, start date = *2008-04-01*.

Transaction 23:

- Message 1: Update the stable country with country id = *LL*, start date = *2008-04-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of LL*.
 - description 2: language id = *FR*,
description = *French Description of LL*.
 - description 3: language id = *NL*,
description = *Dutch Description of LL*.
 - country group membership 1: country group id = *CGRL*, start date = *2000-01-01*, country group sid = *302*, start date = *2008-04-01*.

Transaction 24:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = *=*, constant = *202*.

Transaction 25:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = *=*, constant = *303*.

Transaction 26:

- Message 1: Update the stable country with country id = *LL*, start date = *2008-04-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2008-04-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of LL*.
- description 2: language id = *FR*,
description = *French Description of LL*.
- description 3: language id = *NL*,
description = *Dutch Description of LL*.

Transaction 27:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP*
REF.Country group sid, operator = =, constant = 302.

Transaction 28:

- Message 1: Update the stable country with country id = *SV*, start date = *2008-01-01*, country sid = *101*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SV*.
 - description 2: language id = *FR*,
description = *French Description of SV*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV*.
 - country group membership 1: country group id = *1997*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 29:

- Message 1: Update the stable country with country id = *KL*, start date = *2008-01-01*, country sid = *204*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of KL*.
 - description 2: language id = *FR*,
description = *French Description of KL*.
 - description 3: language id = *NL*,
description = *Dutch Description of KL*.
 - country group membership 1: country group id = *1997*, start date = *2008-01-01*, country group sid = *305*, start date = *2008-01-01*, end date = *2020-*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

01-01.

- country group membership 2: country group id = MONS, start date = 2008-01-01, country group sid = 304, start date = 2008-01-01, end date = 2010-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ': '.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on country.ref : VR-CTR-2: The country ID cannot be updated.

Reply to transaction 11:

- Message 1, on country.group.membership : VR-CTR-19: The validity period of a membership must be within (inclusive) the validity period of the country group.

Reply to transaction 12:

- Message 1, on country.ref : OK.

Reply to transaction 13:

- Message 1, on country.ref : VR-CTR-26: The validity period of the geographical area must not overlap any other geographical area with the same geographical area ID.

Reply to transaction 14:

- Message 1 : OK.

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1, on country.ref : OK.

Reply to transaction 17:

- Message 1 : OK.

Reply to transaction 18:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1 : OK.

Reply to transaction 19:

- Message 1, on country.group.ref : OK.

Reply to transaction 20:

- Message 1 : OK.

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

- Message 1, on country.ref : OK.

Reply to transaction 23:

- Message 1, on country.ref : OK.

Reply to transaction 24:

- Message 1 : OK.

Reply to transaction 25:

- Message 1 : OK.

Reply to transaction 26:

- Message 1, on country.ref : OK.

Reply to transaction 27:

- Message 1 : OK.

Reply to transaction 28:

- Message 1, on country.group.membership : VR-CTR-22:
If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 29:

- Message 1, on country.group.membership[1] : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

Message: **dm_ref_ctr_update_06.xml**

Precondition: Make sure the *dm_ref_ctr_update_setup_01.xml* and *dm_ref_ctr_update_setup_02.xml* messages have been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country with country id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Description of SD French Description of SD.

- description 3: language id = NL,
description = *Dutch Description of SD.*

Transaction 4:

- Message 1: Update the stable country with country id = SD, start date = 2008-01-01, country sid = 103, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN,
description = *English Description of SD.*
 - description 2: language id = FR,
description = *French Description of SD.*
 - description 3: language id = FR,
description = *Second French Description of SD.*
 - description 4: language id = NL,
description = *Dutch Description of SD.*

Transaction 5:

- Message 1: Update the stable country with country id = SD, start date = 2008-01-01, country sid = 103, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN,
description = *English Description of SD.*
 - description 2: language id = FR,
description = *French Description of SD.*
 - description 3: language id = XX,
description = *Description of SD in a non existing language (XX).*
 - description 4: language id = NL,
description = *Dutch Description of SD.*

Transaction 6:

- Message 1: Update the stable country with country id = SD, start date = 2008-01-01, country sid = 103, area code = 0:
 - description period 1: start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 1: language id = *EN*,
description = *English Description of SD*.
- description 2: language id = *FR*,
description = *French Description of SD*.
- description 3: language id = *NL*,
description = *Dutch Description of SD*.

Transaction 7:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,
description = *French Description of SD*.
 - description 3: language id = *NL*,
description = *Dutch Description of SD*.

Transaction 8:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English kg. Description of SD*.
 - description 2: language id = *FR*,
description = *French kg Description of SD*.
 - description 3: language id = *NL*,
description = *Dutch kg; Description of SD*.

Transaction 9:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English kg: Description of*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

SD.

- description 2: language id = *FR*,
description = *French kg, Description of SD.*
- description 3: language id = *NL*,
description = *Dutch Description of SD.*

Transaction 10:

- Message 1: Update the stable country with country id = *GP*, start date = *2008-04-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of GP.*
 - description 2: language id = *FR*,
description = *French Description of GP.*
 - description 3: language id = *NL*,
description = *Dutch Description of GP.*

Transaction 11:

- Message 1: Update the stable country with country id = *SD*, start date = *1999-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *1999-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SD.*
 - description 2: language id = *FR*,
description = *French Description of SD.*
 - description 3: language id = *NL*,
description = *Dutch Description of SD.*
 - country group membership 1: country group id = *CGRS*, start date = *2000-01-01*, country group sid = *303*, start date = *1999-01-01*.

Transaction 12:

- Message 1: Insert a stable country with country id = *FR*, start date = *2000-01-01*, end date = *2008-12-31*, area code = *0*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description of FR.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- description 2: language id = *FR*,
description = *French Description of FR*.
 - description 3: language id = *NL*,
description = *Dutch Description of FR*.
- Message 2: Update the stable country with country id = *FR*, start date = *2008-01-01*, country sid = *203*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of FR*.
 - description 2: language id = *FR*,
description = *French Description of FR*.
 - description 3: language id = *NL*,
description = *Dutch Description of FR*.

Transaction 13:

- Message 1: Update the stable country with country id = *LL*, start date = *2008-04-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of LL*.
 - description 2: language id = *FR*,
description = *French Description of LL*.
 - description 3: language id = *NL*,
description = *Dutch Description of LL*.
 - country group membership 1: country group id = *CGRL*, start date = *2000-01-01*, country group sid = *302*, start date = *2008-04-01*.
 - country group membership 2: country group id = *CGRS*, start date = *2000-01-01*, country group sid = *303*, start date = *2008-04-01*.

Transaction 14:

- Message 1: Update the stable country with country id = *LL*, start date = *2008-04-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *English Description of LL*.

- description 2: language id = *FR*,
description = *French Description of LL*.
- description 3: language id = *NL*,
description = *Dutch Description of LL*.

- country group membership 1: country group id = *CGRL*, start date = *2000-01-01*, country group sid = *302*, start date = *2008-04-01*.

Transaction 15:

- Message 1: Request the country with query space field = *COUNTRY.COUNTRY REF.Country sid*, operator = =, constant = *202*.

Transaction 16:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = *303*.

Transaction 17:

- Message 1: Update the stable country with country id = *LL*, start date = *2008-04-01*, country sid = *202*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of LL*.
 - description 2: language id = *FR*,
description = *French Description of LL*.
 - description 3: language id = *NL*,
description = *Dutch Description of LL*.

Transaction 18:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = *302*.

Transaction 19:

- Message 1: Update the stable country with country id = *SD*, start date = *2008-01-01*, country sid = *103*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SD*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of SD*.

- description 3: language id = *NL*,
description = *Dutch Description of SD*.

- country group membership 1: country group id = *1997*, start date = *2008-01-01*, start date = *2008-01-01*.

Transaction 20:

- Message 1: Update the stable country with country id = *YL*, start date = *2008-01-01*, country sid = *205*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of YL*.
 - description 2: language id = *FR*,
description = *French Description of YL*.
 - description 3: language id = *NL*,
description = *Dutch Description of YL*.
 - country group membership 1: country group id = *1997*, start date = *2008-01-01*, country group sid = *305*, start date = *2008-01-01*, end date = *2020-01-01*.
 - country group membership 2: country group id = *MONS*, start date = *2008-01-01*, country group sid = *304*, start date = *2008-01-01*, end date = *2010-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

- Message 1, on country.ref : VR-CTR-2: The country ID cannot be updated.

Reply to transaction 11:

- Message 1, on country.group.membership : VR-CTR-19: The validity period of a membership must be within (inclusive) the validity period of the country group.

Reply to transaction 12:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : VR-CTR-26: The validity period of the geographical area must not overlap any other geographical area with the same geographical area ID.

Reply to transaction 13:

- Message 1, on country.ref : OK.

Reply to transaction 14:

- Message 1, on country.group.membership : VR-CTR-11: If the country is stable then the country group in the country group membership must be stable.

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1 : OK.

Reply to transaction 17:

- Message 1, on country.ref : OK.

Reply to transaction 18:

- Message 1 : OK.

Reply to transaction 19:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 20:

- Message 1, on country.group.membership[1] : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

2.1.4. Test case **dm_ref_ctr_delete**: Deletion of a country

Message: **dm_ref_ctr_delete_setup_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country with country id = *UN*, start date = *2008-04-01*, country sid = *32310000*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of UN*.
 - description 2: language id = *FR*, description = *French Description of UN*.
 - description 3: language id = *NL*, description = *Dutch Description of UN*.

Transaction 2:

- Message 1: Insert an unstable country with country id = *US*, start date = *2008-04-01*, country sid = *32320000*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of US*.
 - description 2: language id = *FR*, description = *French Description of US*.
 - description 3: language id = *NL*, description = *Dutch Description of US*.

Transaction 3:

- Message 1: Insert a stable country with country id = *ST*, start date = *2008-04-01*, country sid = *32330000*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description of ST*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

description = *French Description of ST.*

- description 3: language id = *NL*,
description = *Dutch Description of ST.*

Transaction 4:

- Message 1: Insert a stable country with country id = *SA*, start date = *2008-04-01*, country sid = *32340000*, area code = *0*:
 - description period 1: start date = *2008-04-01*:
 - description 1: language id = *EN*,
description = *English Description of SA.*
 - description 2: language id = *FR*,
description = *French Description of SA.*
 - description 3: language id = *NL*,
description = *Dutch Description of SA.*

Transaction 5:

- Message 1: Insert a stable country with country id = *ME*, start date = *2008-01-01*, country sid = *32350000*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of ME.*
 - description 2: language id = *FR*,
description = *French Description of ME.*
 - description 3: language id = *NL*,
description = *Dutch Description of ME.*

Transaction 6:

- Message 1: Insert a stable measure with measure type id = *000001*, geographical area id = *ME*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Message: **dm_ref_ctr_delete_setup_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country with country id = *CU*, start date = *2008-01-01*, country sid = *700*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of CU*.
 - description 2: language id = *FR*, description = *French Description of CU*.
 - description 3: language id = *NL*, description = *Dutch Description of CU*.

Transaction 2:

- Message 1: Insert a stable country group with country group id = *CGRS*, start date = *2008-01-01*, country group sid = *303*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description of CGRS*.
 - description 2: language id = *FR*, description = *French description of CGRS*.
 - description 3: language id = *NL*, description = *Dutch description of CGRS*.

Transaction 3:

- Message 1: Insert a stable country with country id = *CS*, start date = *2008-01-01*, country sid = *701*, area code =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

0:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of CS.*
 - description 2: language id = FR, description = *French Description of CS.*
 - description 3: language id = NL, description = *Dutch Description of CS.*
- country group membership 1: country group id = CGRS, start date = 2008-01-01, country group sid = 303, start date = 2008-01-01.

Transaction 4:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = 000001, geographical area id = CU, start date = 2008-01-01, measure agricultural duty expression rule sid = 1.

Transaction 5:

- Message 1: Insert a stable measure with measure type id = 001, geographical area id = CGRS, start date = 2008-01-01, goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1:
 - excluded area 1: geographical area id = CS, start date = 2008-01-01, geographical area sid = 701.

Transaction 6:

- Message 1: Insert a stable country group with country group id = MOND, start date = 2008-01-01, country group sid = 304, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of MOND.*
 - description 2: language id = FR, description = *French description of MOND.*
 - description 3: language id = NL, description = *Dutch description of MOND.*

Transaction 7:

- Message 1: Insert a stable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

group id = 1998, start date = 2008-01-01, country group sid = 305, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 1998.*
 - description 2: language id = FR, description = *French description of 1998.*
 - description 3: language id = NL, description = *Dutch description of 1998.*

country group id = MOND, start date = 2008-01-01, country group sid = 304.

Transaction 8:

- Message 1: Insert a stable country with country id = MD, start date = 2008-01-01, country sid = 702, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of MD.*
 - description 2: language id = FR, description = *French Description of MD.*
 - description 3: language id = NL, description = *Dutch Description of MD.*
 - country group membership 1: country group id = MOND, start date = 2008-01-01, country group sid = 304, start date = 2008-01-01.
 - country group membership 2: country group id = 1998, start date = 2008-01-01, country group sid = 305, start date = 2008-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Message: **dm_ref_ctr_delete_setup_03.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country with country id = *SP*, start date = *2008-01-01*, country sid = *700*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SP*.
 - description 2: language id = *FR*, description = *French Description of SP*.
 - description 3: language id = *NL*, description = *Dutch Description of SP*.

Transaction 2:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *000001*, geographical area id = *SP*, start date = *2008-01-01*, maximum value reduction indicator = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.ref : OK.

Reply to transaction 2:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Message: **dm_ref_ctr_delete_01.xml**

Precondition: Make sure the message *dm_ref_ctr_delete_setup_01.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the country with country sid = 32310000.

Transaction 2:

- Message 1: Delete the country with country sid = 32320000.

Transaction 3:

- Message 1: Request the country with operator = AND, query space field = COUNTRY.COUNTRY REF.Country sid, operator = =, constant = 32310000, query space field = COUNTRY.COUNTRY REF.Country sid, operator = =, constant = 32320000.

Transaction 4:

- Message 1: Delete the country with country sid = 32310000.

Transaction 5:

- Message 1: Delete the country with country sid = 32320000.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.sid : OK.

Reply to transaction 2:

- Message 1, on country.sid : OK.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on country.sid : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on country.sid : VR-VI-3: Data to be deleted must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY	

Message: **dm_ref_ctr_delete_02.xml**

Precondition: Make sure the message *dm_ref_ctr_delete_setup_02.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the country with country sid = 700.

Transaction 2:

- Message 1: Update the stable country with country id = CS, start date = 2008-01-01, country sid = 701, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of CS.*
 - description 2: language id = FR, description = *French Description of CS.*
 - description 3: language id = NL, description = *Dutch Description of CS.*

Transaction 3:

- Message 1: Update the stable country with country id = MD, start date = 2008-01-01, country sid = 702, area code = 0:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of MD.*
 - description 2: language id = FR, description = *French Description of MD.*
 - description 3: language id = NL, description = *Dutch Description of MD.*
 - country group membership 1: country group id = 1998, start date = 2008-01-01, country group sid = 305, start date = 2008-01-01.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.sid : VR-CTR-14: If a country is

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

referenced in a measures-agricultural duty expressions rules it can not be deleted.

Reply to transaction 2:

- Message 1, on country.group.membership.list : VR-CTR-25: If a country is referenced as an excluded area in a measure, the membership association with the measure origin/destination country group cannot be deleted.

Reply to transaction 3:

- Message 1, on country.group.membership : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.
- Message 1, on country.group.membership.list : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Message: dm_ref_ctr_delete_03.xml

Precondition: Make sure the message *dm_ref_ctr_delete_setup_03.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the country with country sid = 700.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.sid : VR-CTR-12: If a country is referenced in a Agricultural-measure validation rule then it can not be deleted.

2.2. Country group

2.2.1. Test case **init_ref_country_group_setup: Insertion of country group reference data**

Message: init_ref_country_group_setup.xml

Precondition: First, make sure the database is empty.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr.*
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl.*
 - description 2: language id = *FR*, description = *Description francaise nl.*

Transaction 2:

- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, country sid = *1*, end date = *2020-01-01*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of BE.*
 - description 2: language id = *FR*, description = *French Description of BE.*
 - description 3: language id = *NL*, description = *Dutch Description of BE.*
- Message 2: Insert an unstable country with country id = *FR*, start date = *2008-01-01*, country sid = *2*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of FR.*
 - description 2: language id = *FR*, description = *French Description of FR.*
 - description 3: language id = *NL*, description = *Dutch Description of FR.*
- Message 3: Insert a stable country with country id = *IQ*, start date = *2009-01-01*, country sid = *3*, end date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

2020-01-01, area code = 0:

- description period 1: start date = 2009-01-01:
 - description 1: language id = EN,
description = *English Description of IQ.*
 - description 2: language id = FR,
description = *French Description of IQ.*
 - description 3: language id = NL,
description = *Dutch Description of IQ.*
- Message 4: Insert a stable country with country id = DE,
start date = 1900-01-01, country sid = 4, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN,
description = *English Description of DE.*
 - description 2: language id = FR,
description = *French Description of DE.*
 - description 3: language id = NL,
description = *Dutch Description of DE.*
- Message 5: Insert a stable country with country id = IT,
start date = 1900-01-01, country sid = 5, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN,
description = *English Description of IT.*
 - description 2: language id = FR,
description = *French Description of IT.*
 - description 3: language id = NL,
description = *Dutch Description of IT.*
- Message 6: Insert a stable country with country id = PL,
start date = 1900-01-01, country sid = 6, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN,
description = *English Description of IT.*
 - description 2: language id = FR,
description = *French Description of IT.*
 - description 3: language id = NL,
description = *Dutch Description of IT.*

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1: Insert a stable measure type series with measure type series id = AA, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type combination = 0.

Transaction 5:

- Message 1: Insert a stable duty expression with duty expression id = 11, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of 0100000000*.
 - description 2: language id = FR, description = *French Description of 0100000000*.
 - description 3: language id = NL, description = *Dutch Description of 0100000000*.
 - indent 1: start date = 2008-01-01, indent number = 2.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

statistical indicator = 0.

Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2000-01-01, official journal number = AAAAA, official journal page = 1234.

Transaction 8:

- Message 1: Insert a stable additional code type with additional code type id = A, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code type A.*
 - description 2: language id = FR, description = *French Description of additional code type A.*
 - description 3: language id = NL, description = *Dutch Description of additional code type A.*

application code = 1.

Transaction 9:

- Message 1: Insert a stable additional code with additional code type id = A, additional code id = 001, start date = 2008-01-01, additional code sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code 001.*
 - description 2: language id = FR, description = *French Description of additional code 001.*
 - description 3: language id = NL, description = *Dutch Description of additional code 001.*

Transaction 10:

- Message 1: Insert a stable regulation role type with regulation role type id = 1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 11:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English description of the Regulation Group*.
 - description 2: language id = *FR*, description = *French description of the Regulation Group*.
 - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2000-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable measure type with measure type id = *001000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*.
- associated additional code type 1: additional code type id = *A*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

2.2.2. Test case dm_ref_cg_insert: Insertion of a country group

Message: dm_ref_cg_insert_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *GG00*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 7.

Transaction 3:

- Message 1: Insert an unstable country group with country group id = *GG00*, start date = *2008-01-01*, area code = 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group*.
 - description 2: language id = FR, description = *French description country group*.
 - description 3: language id = NL, description = *Dutch description country group*.

Transaction 4:

- Message 1: Insert an unstable country group with country group id = *Gu!*, start date = 2008/Jan, area code = 5:
 - description period 1: start date = 98/2008:
 - description 1: language id = en, description = *English description country group*.
 - description 2: language id = FRT, description = *French description country group*.
 - description 3: language id = N, description = *Dutch description country group*.

Transaction 5:

- Message 1: Insert an unstable country group with country group id = *GR00*, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group*.
 - description 2: language id = FR, description = *French description country group*.
 - description 3: language id = NL, description = *Dutch description country group*.

country group id = *XXXX*, start date = 2008-01-01.

Transaction 6:

- Message 1: Insert an unstable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group id = *GR00*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
- country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2011-01-01*.

Transaction 7:

- Message 1: Insert an unstable country group with country group id = *GR01*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *XX*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2010-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : OK.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-CG-1: The combination of country group ID and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on country.group.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on area.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-3: The referenced parent group must be an existing geographical area group.

Reply to transaction 6:

- Message 1, on country.group.ref : OK.

Reply to transaction 7:

- Message 1, on country.member : VR-CG-23: The referenced geographical area member must exist.

Message: **dm_ref_cg_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1: Insert a stable country group with country group id = *GG01*, start date = *2008-01-01*, country group sid = 7, end date = *2009-01-01*, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 7.

Transaction 3:

- Message 1: Insert a stable country group with country group id = *GG01*, start date = *2008-01-01*, end date = *2009-01-01*, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 4:

- Message 1: Insert a stable country group with country group id = *Gu!*, start date = *2008/Jan*, country group sid = *p*, area code = 5:
 - description period 1: start date = *98/2008*:
 - description 1: language id = *en*, description = *English description country group*.
 - description 2: language id = *FRT*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *French description country group*.

- description 3: language id = *N*,
description = *Dutch description country group*.

Transaction 5:

- Message 1: Insert a stable country group with country group id = *GR01*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.

country group id = *XXXX*, start date = *2008-01-01*.

Transaction 6:

- Message 1: Insert a stable country group with country group id = *GR01*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.

country group id = *GG01*, start date = *2008-01-01*.

Transaction 7:

- Message 1: Insert a stable country group with country group id = *GR01*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.
- country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.

Transaction 8:

- Message 1: Insert a stable country group with country group id = *GR01*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.
 - country member 1: country id = *XX*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2009-01-01*.

Transaction 9:

- Message 1: Insert a stable country group with country group id = *GR01*, start date = *2008-01-01*, end date = *2050-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group.

- description 3: language id = *NL*, description = *Dutch description country group.*

- country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2025-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-CG-1: The combination of country group ID and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on country.group.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on country.group.sid : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on area.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-3: The referenced parent group must be an existing geographical

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

area group.

Reply to transaction 6:

- Message 1, on country.group.ref : VR-CG-4: If a geographical area group has a parent group then the validity period of the parent group must span the validity period of the geographical area group.

Reply to transaction 7:

- Message 1, on country.member.ref : VR-CG-8: The validity period of a membership must be within (inclusively) the validity period of the group.

Reply to transaction 8:

- Message 1, on country.member : VR-CG-23: The referenced geographical area member must exist.

Reply to transaction 9:

- Message 1, on country.member : VR-CG-24: The validity period of a membership must be within (inclusively) the validity period of the member.

Message: dm_ref_cg_insert_03.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *CG01*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-06-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Insert an unstable country group with country group id = *CG01*, start date = *2008-01-01*, end date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

2005-01-01, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 3:

- Message 1: Insert an unstable country group with country group id = CG01, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*

Transaction 4:

- Message 1: Insert an unstable country group with country group id = CG01, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*
 - country member 1: country id = FR, start date = 2008-01-01, start date = 2009-01-01, end date = 2008-01-01.

Transaction 5:

- Message 1: Insert an unstable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group id = *CG01*, start date = *2008-01-01*, area code = *1*:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
- country member 1: country id = *FR*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2010-01-01*.
- country member 2: country id = *FR*, start date = *2008-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.

Transaction 6:

- Message 1: Insert an unstable country group with country group id = *CG02*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2008-12-31*.

Transaction 7:

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id*, operator = *=*, constant = *CG02*, query space field = *COUNTRY GROUP.COUNTRY*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

*GROUP REF.LOGICAL KEY.Start date, operator = =,
constant = 2008-01-01.*

Transaction 8:

- Message 1: Insert an unstable country group with country group id = *CG02*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2010-01-01*.

country group id = *CG01*, start date = *2008-01-01*.

Transaction 9:

- Message 1: Insert an unstable country group with country group id = *CG02*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - country member 1: country id = *FR*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2012-01-01*.

country group id = *CG01*, start date = *2008-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 1:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.

Reply to transaction 2:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 3:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on country.group.ref : OK.

Reply to transaction 6:

- Message 1, on country.group.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on country.member : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 9:

- Message 1, on country.group.ref : OK.

Message: dm_ref_cg_insert_04.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country group with country group id = CG00, start date = 2008-01-01, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

sid = 7, area code = 1:

- description period 1: start date = 2008-06-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 2:

- Message 1: Insert a stable country group with country group id = CG00, start date = 2008-01-01, end date = 2005-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 3:

- Message 1: Insert a stable country group with country group id = CG00, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*
 - country member 1: country id = FR, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

2008-01-01, start date = 2008-01-01, end date = 2010-01-01.

Transaction 4:

- Message 1: Insert a stable country group with country group id = CG00, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 5:

- Message 1: Insert a stable country group with country group id = CG00, start date = 2009-01-01, area code = 1:
 - description period 1:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 6:

- Message 1: Insert a stable country group with country group id = CG00, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*

Transaction 7:

- Message 1: Insert a stable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group id = *CG00*, start date = *2008-01-01*, end date = *2010-01-01*, area code = *1*:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
- country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2010-01-01*.

Transaction 8:

- Message 1: Insert a stable country group with country group id = *CG00*, start date = *2009-01-01*, end date = *2010-12-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 9:

- Message 1: Insert a stable country group with country group id = *CG01*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *2010-01-01*, start date = *2010-01-01*, end date = *2009-01-01*.

Transaction 10:

- Message 1: Insert a stable country group with country group id = *CG01*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *1900-01-01*.

Transaction 11:

- Message 1: Insert a stable country group with country group id = *CG01*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2010-01-01*.

Transaction 12:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id*, operator = =, constant = *CG01*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Start date*, operator = =, constant = *2009-01-01*.

Transaction 13:

- Message 1: Insert a stable country group with country group id = *CG02*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *IQ*, start date = *2009-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.
 - country member 2: country id = *IQ*, start date = *2009-01-01*, start date = *2010-01-01*, end date = *2012-01-01*.

Transaction 14:

- Message 1: Insert a stable country group with country group id = *CG02*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- country member 1: country id = *IQ*, start date = *2009-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.

country group id = *CG01*, start date = *2009-01-01*.

Transaction 15:

- Message 1: Insert a stable country group with country group id = *CG02*, start date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2015-01-01*.

country group id = *CG01*, start date = *2009-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.

Reply to transaction 2:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 3:

- Message 1, on country.member.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 5:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 6:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 7:

- Message 1, on country.group.ref : OK.

Reply to transaction 8:

- Message 1, on country.group.ref : VR-CG-25: The validity period of the country group must not overlap any other country group with the same geographical area ID.

Reply to transaction 9:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 10:

- Message 1, on country.member.ref : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 11:

- Message 1, on country.group.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

membership periods.

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 14:

- Message 1, on country.member : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 15:

- Message 1, on country.member : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

2.2.3. Test case dm_ref_cg_di_insert: Insert of a Country group description

Message: dm_ref_cg_di_insert_01.xml

Precondition : Make sure the *init_ref_country_group_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = 7, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*, description = *English description country group*.
- description 2: language id = *FR*, description = *"French" description country group*".
- description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 3:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group: Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy z.*
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 4:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Second French description country group.

- description 4: language id = *NL*, description = *Dutch description country group.*

Transaction 5:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - description 4: language id = *XX*, description = *Description country group of nonexistent language XX.*

Transaction 6:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 7:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 8:

- Message 1: Insert an unstable country group with country group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

CGU1, start date = 2008-01-01, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description country kg. group.*
 - description 2: language id = *FR*, description = *French description country kg group.*
 - description 3: language id = *NL*, description = *Dutch description country kg; group.*

Transaction 9:

- Message 1: Insert an unstable country group with country group id = *CGU1*, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description country kg: group.*
 - description 2: language id = *FR*, description = *French description country kg, group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Message: **dm_ref_cg_di_insert_02.xml**

Precondition : Make sure the *init_ref_country_group_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable country group with country group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

CGS0, start date = 2008-01-01, country group sid = 7, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *- French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 2:

- Message 1: Insert a stable country group with country group id = CGS0, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *"French" description country group".*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 3:

- Message 1: Insert a stable country group with country group id = CGS0, start date = 2008-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group: Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

z.

- description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 4:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *FR*, description = *Second French description country group*.
 - description 4: language id = *NL*, description = *Dutch description country group*.

Transaction 5:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - description 4: language id = *XX*, description = *Description country group of nonexistent language XX*.

Transaction 6:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description country group.

Transaction 7:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group:.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 8:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country kg. group.*
 - description 2: language id = *FR*, description = *French description country kg group.*
 - description 3: language id = *NL*, description = *Dutch description country kg; group.*

Transaction 9:

- Message 1: Insert a stable country group with country group id = *CGS0*, start date = *2008-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country kg: group.*
 - description 2: language id = *FR*, description = *French description country kg, group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

2.2.4. Test case dm_ref_cg_update: Update of a country group

Message: dm_ref_cg_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 2:

- Message 1: Insert a stable country group with country group id = V200, start date = 2008-01-01, country group sid = 8, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*,
description = *Dutch description country group*.

Transaction 3:

- Message 1: Insert an unstable country group with country group id = *V300*, start date = *2008-01-01*, country group sid = *9*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.

country group id = *V200*, start date = *2008-01-01*.

Transaction 4:

- Message 1: Insert an unstable country group with country group id = *V400*, start date = *2008-01-01*, country group sid = *10*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.

country group id = *V300*, start date = *2008-01-01*.

Transaction 5:

- Message 1: Insert an unstable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *English description country group.*

- description 2: language id = *FR*, description = *French description country group.*
- description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 6:

- Message 1: Insert an unstable country group with country group id = *UMEO*, start date = *2008-01-01*, country group sid = *12*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 7:

- Message 1: Insert an unstable measure with measure type id = *001000*, geographical area id = *UMEO*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, order number = *094002*, reduction indicator = *2*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 8:

- Message 1: Insert an unstable country group with country group id = *UMA0*, start date = *2008-01-01*, country group sid = *13*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 9:

- Message 1: Insert an unstable measure agricultural duty expression rule with measure type id = *001000*, geographical area id = *UMA0*, start date = *2008-01-01*, end date = *2008-12-01*.

Transaction 10:

- Message 1: Insert an unstable country group with country group id = *UAMI*, start date = *2008-01-01*, country group sid = *14*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 11:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = *001000*, geographical area id = *UAMI*, maximum value reduction indicator = *1*, end date = *2008-12-01*.

Transaction 12:

- Message 1: Insert a stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 13:

- Message 1: Insert a stable country group with country group id = S200, start date = 2008-01-01, country group sid = 16, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 14:

- Message 1: Insert a stable country group with country group id = S300, start date = 2008-01-01, country group sid = 17, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

country group id = S200, start date = 2008-01-01.

Transaction 15:

- Message 1: Insert a stable country group with country group id = S400, start date = 2008-01-01, country group sid = 18, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.

country group id = *S300*, start date = *2008-01-01*.

Transaction 16:

- Message 1: Insert a stable country group with country group id = *SME0*, start date = *2008-01-01*, country group sid = *19*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 17:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *SME0*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, order number = *094002*, start date = *2008-01-01*, end date = *2008-12-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 18:

- Message 1: Insert a stable country group with country group id = *SMA0*, start date = *2008-01-01*, country group sid = *20*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 19:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = *001000*, geographical area id = *SMA0*, start date = *2008-01-01*, end date = *2008-12-01*.

Transaction 20:

- Message 1: Insert a stable country group with country group id = *SAM1*, start date = *2008-01-01*, country group sid = *21*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 21:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *001000*, geographical area id = *SAM1*, start date = *2008-01-01*, maximum value reduction indicator = *1*, end date = *2008-12-01*.

Transaction 22:

- Message 1: Insert a stable country group with country group id = *SU00*, start date = *2008-01-01*, country group sid = *22*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 23:

- Message 1: Insert a stable country group with country group id = *SU00*, start date = *2012-01-01*, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

sid = 23, end date = 2014-01-01, area code = 1:

- description period 1: start date = 2012-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 24:

- Message 1: Insert an unstable country group with country group id = CG11, start date = 2008-01-01, country group sid = 24, end date = 2010-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 25:

- Message 1: Insert an unstable country group with country group id = CG11, start date = 2010-02-02, country group sid = 25, end date = 2012-02-02, area code = 1:
 - description period 1: start date = 2010-02-02:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- country member 1: country id = *IQ*, start date = *2009-01-01*, start date = *2010-02-02*, end date = *2012-02-02*.

Transaction 26:

- Message 1: Insert a stable country group with country group id = *CGM0*, start date = *2007-01-01*, country group sid = *26*, area code = *1*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *IT*, start date = *1900-01-01*, start date = *2007-01-01*, end date = *2008-01-01*.

Transaction 27:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *CGM0*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, order number = *094002*, start date = *2008-01-01*, end date = *2010-12-31*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - excluded area 1: geographical area id = *IT*, start date = *1900-01-01*.

Transaction 28:

- Message 1: Insert a stable country group with country group id = *SCG1*, start date = *2008-01-01*, country group sid = *27*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group.

- description 3: language id = *NL*, description = *Dutch description country group.*

- country member 1: country id = *PL*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2008-12-31*.

Transaction 29:

- Message 1: Insert a stable country group with country group id = *SCG2*, start date = *2008-01-01*, country group sid = *28*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - country member 1: country id = *PL*, start date = *1900-01-01*, start date = *2008-02-02*, end date = *2008-12-30*.

country group id = *SCG1*, start date = *2008-01-01*.

Transaction 30:

- Message 1: Insert an unstable country group with country group id = *UCG3*, start date = *2008-01-01*, country group sid = *29*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group.

- country member 1: country id = *FR*, start date = *2008-01-01*, start date = *2009-01-01*, end date = *2010-01-01*.

Transaction 31:

- Message 1: Insert an unstable country group with country group id = *UCG4*, start date = *2009-02-02*, country group sid = *30*, area code = *1*:
 - description period 1: start date = *2009-02-02*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - country member 1: country id = *FR*, start date = *2008-01-01*, start date = *2009-02-02*, end date = *2009-12-30*.

country group id = *UCG3*, start date = *2008-01-01*.

Transaction 32:

- Message 1: Insert an unstable measure with measure type id = *001000*, geographical area id = *UCG4*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, order number = *094002*, reduction indicator = *2*, start date = *2009-02-02*, end date = *2009-12-30*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - excluded area 1: geographical area id = *FR*, start date = *2008-01-01*.

Transaction 33:

- Message 1: Insert an unstable country group with country group id = *V500*, start date = *2008-01-01*, country group sid = *31*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *English description country group.*

- description 2: language id = *FR*, description = *French description country group.*
- description 3: language id = *NL*, description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Reply to transaction 23: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 24: Status ok.

Reply to transaction 25: Status ok.

Reply to transaction 26: Status ok.

Reply to transaction 27: Status ok.

Reply to transaction 28: Status ok.

Reply to transaction 29: Status ok.

Reply to transaction 30: Status ok.

Reply to transaction 31: Status ok.

Reply to transaction 32: Status ok.

Reply to transaction 33: Status ok.

Message: dm_ref_cg_update_01.xml

Precondition: Make sure the *dm_ref_cg_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable country group with country group id = *V100*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 2:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = *=*, constant = *7*.

Transaction 3:

- Message 1: Update the unstable country group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group id = XXXX, start date = 2008-01-01,
country group sid = 99, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN,
description = *English description country group updated.*
 - description 2: language id = FR,
description = *French description country group updated.*
 - description 3: language id = NL,
description = *Dutch description country group updated.*

Transaction 4:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, end date = 2007-04-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN,
description = *English description country group updated.*
 - description 2: language id = FR,
description = *French description country group updated.*
 - description 3: language id = NL,
description = *Dutch description country group updated.*

Transaction 5:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN,
description = *English description country group updated.*
 - description 2: language id = FR,
description = *French description country group updated.*
 - description 3: language id = NL,
description = *Dutch description country group updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group updated.

country group id = XXXX, start date = 2008-01-01.

Transaction 6:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-05-05:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

Transaction 7:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, end date = 2009-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description 1 for country group- updated.*
 - description 2: language id = FR, description = *French description 1 for country group- updated.*
 - description 3: language id = NL, description = *Dutch description 1 for country group- updated.*
 - description period 2: start date = 2009-02-02:
 - description 1: language id = EN, description = *English description 2 for country group- updated.*
 - description 2: language id = FR, description = *French description 2 for country group- updated.*
 - description 3: language id = NL, description = *Dutch description 2 for*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group- updated.

Transaction 8:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, end date = 2009-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description 1 for country group- updated.*
 - description 2: language id = FR, description = *French description 1 for country group- updated.*
 - description 3: language id = NL, description = *Dutch description 1 for country group- updated.*
 - description period 2: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description 2 for country group- updated.*
 - description 2: language id = FR, description = *French description 2 for country group- updated.*
 - description 3: language id = NL, description = *Dutch description 2 for country group- updated.*

Transaction 9:

- Message 1: Update the unstable country group with country group id = V300, start date = 2008-01-01, country group sid = 9, end date = 2009-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group updated.

country group id = V400, start date = 2008-01-01.

Transaction 10:

- Message 1: Update the unstable country group with country group id = V300, start date = 2008-01-01, country group sid = 9, end date = 2009-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

country group id = V500, start date = 2008-01-01.

Transaction 11:

- Message 1: Update the unstable country group with country group id = V100, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*
 - country member 1: country id = BE, start date = 1900-01-01, start date = 2008-01-01, end date = 2009-01-01.
 - country member 2: country id = BE, start date = 1900-01-01, start date = 2008-05-01, end date = 2010-01-01.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

output:

transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-3: The referenced parent group must be an existing geographical area group.

Reply to transaction 6:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.

Reply to transaction 7:

- Message 1, on country.group.ref : OK.

Reply to transaction 8:

- Message 1, on start.date : VR-CG-7: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 9:

- Message 1, on parent.country.group : VR-CG-9: Loops in the parent relation between geographical area groups are not allowed.

Reply to transaction 10:

- Message 1, on parent.country.group : VR-CG-9: Loops in the parent relation between geographical area groups are not allowed.

Reply to transaction 11:

- Message 1, on country.group.ref : OK.

Message: dm_ref_cg_update_02.xml

Precondition: Make sure the dm_ref_cg_update_setup_01.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = *V100*, start date = *2008-01-01*, country group sid = *7*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 2:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP* REF. *Country group sid*, operator = *=*, constant = *7*.

Transaction 3:

- Message 1: Update the stable country group with country group id = *XXXX*, start date = *2008-01-01*, country group sid = *99*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description nonexistent country group.*
 - description 2: language id = *FR*, description = *French description nonexistent country group.*
 - description 3: language id = *NL*, description = *Dutch description nonexistent country group.*

Transaction 4:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, end date = *2007-04-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*, description = *English description country group updated.*
- description 2: language id = *FR*, description = *French description country group updated.*
- description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 5:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

country group id = *XXXX*, start date = *2008-01-01*.

Transaction 6:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, area code = *1*:
 - description period 1: start date = *2008-05-05*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 7:

- Message 1: Update the stable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, end date = *2009-01-01*, area code = *1*:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
- description period 2: start date = *2009-02-02*:
 - description 1: language id = *EN*, description = *Second English description country group updated.*
 - description 2: language id = *FR*, description = *Second French description country group updated.*
 - description 3: language id = *NL*, description = *Second Dutch description country group updated.*

Transaction 8:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, end date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *Second English description country group updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 2: language id = *FR*,
description = *Second French description country group updated.*
- description 3: language id = *NL*,
description = *Second Dutch description country group updated.*

Transaction 9:

- Message 1: Update the stable country group with country group id = *V300*, start date = *2007-01-01*, country group sid = *9*, area code = *1*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

country group id = *V200*, start date = *2008-01-01*.

Transaction 10:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2007-01-01*, country group sid = *11*, end date = *2012-01-01*, area code = *1*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

country group id = *S100*, start date = *2008-01-01*.

Transaction 11:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, end date = *2015-01-01*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
- country member 1: country id = *IQ*, start date = *2009-01-01*, start date = *2009-01-02*, end date = *2016-01-01*.

Transaction 12:

- Message 1: Update the stable country group with country group id = *UME0*, start date = *2008-01-01*, country group sid = *12*, end date = *2008-05-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 13:

- Message 1: Update the stable country group with country group id = *UMA0*, start date = *2008-01-01*, country group sid = *13*, end date = *2008-05-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *Dutch description country group updated.*

Transaction 14:

- Message 1: Update the stable country group with country group id = *UAM1*, start date = *2008-01-01*, country group sid = *14*, end date = *2008-05-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 15:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2009-01-01*.
 - country member 2: country id = *BE*, start date = *1900-01-01*, start date = *2008-05-01*, end date = *2010-01-01*.

Transaction 16:

- Message 1: Update the stable country group with country group id = *KK00*, start date = *2008-01-01*, country group sid = *11*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

- country member 1: country id = BE, start date = 1900-01-01, start date = 2008-01-01, end date = 2050-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-3: The referenced parent group must be an existing geographical area group.

Reply to transaction 6:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.

Reply to transaction 7:

- Message 1, on description.period[2] : VR-CG-6: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 8:

- Message 1, on start.date : VR-CG-7: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 9:

- Message 1, on country.group.ref : VR-CG-4: If a geographical area group has a parent group then the validity period of the parent group must span the validity period of the geographical area group.

Reply to transaction 10:

- Message 1, on country.group.ref : VR-CG-4: If a geographical area group has a parent group then the validity period of the parent group must span the validity period of the geographical area group.

Reply to transaction 11:

- Message 1, on country.member.ref : VR-CG-8: The validity period of a membership must be within (inclusively) the validity period of the group.

Reply to transaction 12:

- Message 1, on country.group.ref : OK.

Reply to transaction 13:

- Message 1, on country.group.ref : OK.

Reply to transaction 14:

- Message 1, on country.group.ref : OK.

Reply to transaction 15:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 16:

- Message 1, on country.member : VR-CG-24: The validity period of a membership must be within (inclusively) the validity period of the member.

Message: **dm_ref_cg_update_03.xml**

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Precondition: Make sure the *dm_ref_cg_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 2:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = *=*, constant = *15*.

Transaction 3:

- Message 1: Update the stable country group with country group id = *XXXX*, start date = *2008-01-01*, country group sid = *99*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description nonexistent country group.*
 - description 2: language id = *FR*, description = *French description nonexistent country group.*
 - description 3: language id = *NL*, description = *Dutch description nonexistent country group.*

Transaction 4:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, end date = *2007-04-01*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

Transaction 5:

- Message 1: Update the stable country group with country group id = S100, start date = 2008-01-01, country group sid = 15, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

country group id = XXXX, start date = 2008-01-01.

Transaction 6:

- Message 1: Update the stable country group with country group id = S100, start date = 2008-01-01, country group sid = 15, area code = 1:
 - description period 1: start date = 2008-05-05:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

Transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, end date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - description period 2: start date = *2009-02-02*:
 - description 1: language id = *EN*, description = *Second English description country group updated.*
 - description 2: language id = *FR*, description = *Second French description country group updated.*
 - description 3: language id = *NL*, description = *Second Dutch description country group updated.*

Transaction 8:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, end date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - description period 2: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *Second English description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group updated.

- description 2: language id = *FR*,
description = *Second French description*
country group updated.
- description 3: language id = *NL*,
description = *Second Dutch description*
country group updated.

Transaction 9:

- Message 1: Update the stable country group with country group id = *S200*, start date = *2008-01-01*, country group sid = *16*, end date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description*
country group updated.
 - description 2: language id = *FR*,
description = *French description country*
group updated.
 - description 3: language id = *NL*,
description = *Dutch description country*
group updated.

country group id = *S300*, start date = *2008-01-01*.

Transaction 10:

- Message 1: Update the stable country group with country group id = *S200*, start date = *2008-01-01*, country group sid = *16*, end date = *2009-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description*
country group updated.
 - description 2: language id = *FR*,
description = *French description country*
group updated.
 - description 3: language id = *NL*,
description = *Dutch description country*
group updated.

country group id = *S400*, start date = *2008-01-01*.

Transaction 11:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

sid = 15, end date = 2012-01-01, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

country group id = SU00, start date = 2008-01-01.

Transaction 12:

- Message 1: Update the stable country group with country group id = S100, start date = 2008-01-01, country group sid = 15, end date = 2015-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*
 - country member 1: country id = IQ, start date = 2009-01-01, start date = 2009-01-01, end date = 2020-01-01.

Transaction 13:

- Message 1: Update the stable country group with country group id = SME0, start date = 2008-01-01, country group sid = 19, end date = 2008-05-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group updated.

- description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 14:

- Message 1: Update the stable country group with country group id = *SMA0*, start date = *2008-01-01*, country group sid = *20*, end date = *2008-05-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 15:

- Message 1: Update the stable country group with country group id = *SAM1*, start date = *2008-01-01*, country group sid = *21*, end date = *2008-05-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 16:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 2: language id = *FR*, description = *French description country group updated.*
- description 3: language id = *NL*, description = *Dutch description country group updated.*
- country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2009-01-01*.
- country member 2: country id = *BE*, start date = *1900-01-01*, start date = *2008-05-01*, end date = *2010-01-01*.

Transaction 17:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, end date = *2025-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - country member 1: country id = *BE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2025-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-VI-1: Data to be updated must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-3: The referenced parent group must be an existing geographical area group.

Reply to transaction 6:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.

Reply to transaction 7:

- Message 1, on description.period[2] : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 8:

- Message 1, on start.date : VR-CG-7: No two associated description periods for the same geographical area may have the same start date.

Reply to transaction 9:

- Message 1, on parent.country.group : VR-CG-9: Loops in the parent relation between geographical area groups are not allowed.

Reply to transaction 10:

- Message 1, on parent.country.group : VR-CG-9: Loops in the parent relation between geographical area groups are not allowed.

Reply to transaction 11:

- Message 1, on country.group.ref : VR-CG-4: If a geographical area group has a parent group then the validity period of the parent group must span the validity period of the geographical area group.

Reply to transaction 12:

- Message 1, on country.member.ref : VR-CG-8: The validity period of a membership must be within (inclusively) the validity period of the group.

Reply to transaction 13:

- Message 1, on country.group : VR-CG-10: The validity period of the origin/destination area must always span

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

the validity period of the referencing stable measure.

Reply to transaction 14:

- Message 1, on country.group : VR-CG-11: The validity period of the geographical area must span the validity period of the "measures-agricultural duty expressions rules" where the geographical area is referenced.

Reply to transaction 15:

- Message 1, on country.group : VR-CG-12: The validity period of the geographical area must span the validity period of the "agricultural measures validation rules" where the geographical area is referenced.

Reply to transaction 16:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 17:

- Message 1, on country.member : VR-CG-24: The validity period of a membership must be within (inclusively) the validity period of the member.

Message: **dm_ref_cg_update_04.xml**

Precondition: Make sure the *dm_ref_cg_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable country group with country group id = *S200*, start date = *2008-01-01*, country group sid = *16*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated*.
 - description 2: language id = *FR*, description = *French description country group updated*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 2:

- Message 1: Update the unstable country group with country group id = *CGV1*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 3:

- Message 1: Update the unstable country group with country group id = *V300*, start date = *2008-01-01*, country group sid = *9*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*

- country member 1: country id = *DE*, start date = *1900-01-01*, start date = *2008-01-01*, end date = *2008-02-02*.

country group id = *V200*, start date = *2008-01-01*.

Transaction 4:

- Message 1: Update the unstable country group with country group id = *V100*, start date = *2008-01-01*, country group sid = *7*, end date = *2010-01-01*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group*.
 - description 2: language id = FR, description = *French description country group*.
 - description 3: language id = NL, description = *Dutch description country group*.
- country member 1: country id = FR, start date = 2008-01-01, start date = 2008-01-01, end date = 2010-01-01.

Transaction 5:

- Message 1: Request the country group with operator = AND, query space field = COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id, operator = =, constant = V100, query space field = COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Start date, operator = =, constant = 2008-01-01.

Transaction 6:

- Message 1: Update the unstable country group with country group id = V300, start date = 2008-01-01, country group sid = 9, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group*.
 - description 2: language id = FR, description = *French description country group*.
 - description 3: language id = NL, description = *Dutch description country group*.

Transaction 7:

- Message 1: Request the country group with query space field = COUNTRY GROUP.COUNTRY GROUP REF.Country group sid, operator = =, constant = 9.

Transaction 8:

- Message 1: Update the unstable country group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group id = *V100*, start date = *2008-01-01*,
country group sid = 7, area code = 1:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*
- country member 1: country id = *FR*, start date = *2008-01-01*, start date = *2008-01-01*, end date = *2010-01-01*.
- country member 2: country id = *FR*, start date = *2008-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.

Transaction 9:

- Message 1: Update the unstable country group with
country group id = *UCG3*, start date = *2008-01-01*,
country group sid = 29, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*

Transaction 10:

- Message 1: Update the unstable country group with
country group id = *UCG4*, start date = *2009-02-02*,
country group sid = 30, area code = 1:
 - description period 1: start date = *2009-02-02*:
 - description 1: language id = *EN*,
description = *English description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group.

- description 2: language id = *FR*,
description = *French description country group.*
- description 3: language id = *NL*,
description = *Dutch description country group.*

Transaction 11:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 30.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 2:

- Message 1, on country.group.ref : VR-CG-2: The country group ID cannot be updated.

Reply to transaction 3:

- Message 1, on country.member : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 4:

- Message 1, on country.group.ref : OK.

Reply to transaction 5:

- Message 1 : OK.

Reply to transaction 6:

- Message 1, on country.group.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on country.group.ref : OK.

Reply to transaction 9:

- Message 1, on country.member.list : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

of the parent country group.

Reply to transaction 10:

- Message 1, on country.member.list : VR-CTR-25: If a country is referenced as an excluded area in a measure, the membership association with the measure origin/destination country group cannot be deleted.

Reply to transaction 11:

- Message 1 : OK.

Message: dm_ref_cg_update_05.xml

Precondition: Make sure the dm_ref_cg_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = V400, start date = 2008-01-01, country group sid = 10, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country group updated.*
 - description 3: language id = NL, description = *Dutch description country group updated.*

country group id = V300, start date = 2008-01-01, country group sid = 9.

Transaction 2:

- Message 1: Update the stable country group with country group id = V100, country group sid = 7, area code = 1:
 - description period 1:
 - description 1: language id = EN, description = *English description country group updated.*
 - description 2: language id = FR, description = *French description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group updated.

- description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 3:

- Message 1: Update the stable country group with country group id = *CGVI*, start date = *2008-01-01*, country group sid = *1*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*
 - description 2: language id = *FR*,
description = *French description country group updated.*
 - description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 4:

- Message 1: Update the stable country group with country group id = *CG11*, start date = *2008-01-01*, country group sid = *24*, end date = *2010-01-01*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*

Transaction 5:

- Message 1: Update the stable country group with country group id = *CG11*, start date = *2009-01-01*, country group sid = *25*, end date = *2011-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description country group updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 2: language id = *FR*,
description = *French description country group updated.*
- description 3: language id = *NL*,
description = *Dutch description country group updated.*

Transaction 6:

- Message 1: Update the stable country group with country group id = *V300*, start date = *2008-01-01*, country group sid = *9*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*
- country group id = *V200*, start date = *2008-01-01*.

Transaction 7:

- Message 1: Update the stable country group with country group id = *V400*, start date = *2008-01-01*, country group sid = *10*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*
 - country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2010-01-01*.
- country group id = *V300*, start date = *2008-01-01*,
country group sid = *9*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 8:

- Message 1: Update the stable country group with country group id = *V100*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2009-01-01*.

Transaction 9:

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id*, operator = *=*, constant = *V100*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Start date*, operator = *=*, constant = *2008-01-01*.

Transaction 10:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2010-01-01*.

country group id = *V100*, start date = *2008-01-01*,
country group sid = *7*.

Transaction 11:

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id*, operator = *=*, constant = *CG11*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Start date*, operator = *=*, constant = *2010-02-02*.

Transaction 12:

- Message 1: Update the stable country group with country group id = *CG11*, start date = *2010-02-02*, country group sid = *25*, end date = *2012-02-02*, area code = *1*:
 - description period 1: start date = *2010-02-02*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *IQ*, start date = *2009-01-01*, country sid = *3*, start date = *2010-02-02*, end date = *2012-02-02*.

Transaction 13:

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Country group id*, operator = *=*, constant = *CG11*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY.Start date*, operator = *=*, constant = *2010-02-02*.

Transaction 14:

- Message 1: Update the stable country group with country group id = *V400*, start date = *2010-02-02*, country group sid = *10*, end date = *2011-01-01*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = 2010-02-02:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 15:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 10.

Transaction 16:

- Message 1: Update the stable country group with country group id = *S100*, start date = 2008-01-01, country group sid = 15, area code = 1:
 - description period 1:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 17:

- Message 1: Update the stable country group with country group id = *S100*, start date = 2008-01-01, country group sid = 15, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *Dutch description country group.*

- country member 1: country id = *XX*, start date = *2008-01-01*, country sid = *44*, start date = *2008-01-01*, end date = *2010-01-01*.

Transaction 18:

- Message 1: Update the stable country group with country group id = *S100*, start date = *2008-01-01*, country group sid = *15*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*
 - country member 1: country id = *BE*, start date = *1900-01-01*, country sid = *1*, start date = *2008-01-01*, end date = *2010-01-01*.
 - country member 2: country id = *BE*, start date = *1900-01-01*, start date = *2009-01-01*, end date = *2011-01-01*.

Transaction 19:

- Message 1: Update the stable country group with country group id = *UCG3*, start date = *2008-01-01*, country group sid = *29*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 20:

- Message 1: Update the stable country group with country group id = *UCG4*, start date = *2009-02-02*, country group sid = *30*, area code = *1*:
 - description period 1: start date = *2009-02-02*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-CG-2: The country group ID cannot be updated.

Reply to transaction 4:

- Message 1, on country.group.ref : OK.

Reply to transaction 5:

- Message 1, on country.group.ref : VR-CG-25: The validity period of the country group must not overlap any other country group with the same geographical area ID.

Reply to transaction 6:

- Message 1, on country.group.ref : OK.

Reply to transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on country.member : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 8:

- Message 1, on country.group.ref : OK.

Reply to transaction 9:

- Message 1 : OK.

Reply to transaction 10:

- Message 1, on country.member : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

Reply to transaction 11:

- Message 1 : OK.

Reply to transaction 12:

- Message 1, on country.group.ref : OK.

Reply to transaction 13:

- Message 1 : OK.

Reply to transaction 14:

- Message 1, on country.group.ref : OK.

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 17:

- Message 1, on country.member : VR-CG-23: The referenced geographical area member must exist.

Reply to transaction 18:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

period, then there cannot be any overlap in their membership periods.

Reply to transaction 19:

- Message 1, on country.member.list : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

Reply to transaction 20:

- Message 1, on country.member.list : VR-CTR-25: If a country is referenced as an excluded area in a measure, the membership association with the measure origin/destination country group cannot be deleted.

Message: **dm_ref_cg_update_06.xml**

Precondition: Make sure the *dm_ref_cg_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = *S200*, start date = *2008-01-01*, country group sid = *16*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*
 - country member 1: country id = *FR*, start date = *2008-01-01*, country sid = *2*, start date = *2008-01-01*, end date = *2008-12-31*.

Transaction 2:

- Message 1: Update the stable country group with country group id = *S200*, country group sid = *16*, area code = *1*:
 - description period 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*, description = *English description country group updated.*
- description 2: language id = *FR*, description = *French description country group updated.*
- description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 3:

- Message 1: Update the stable country group with country group id = *CGV0*, start date = *2008-01-01*, country group sid = *10*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 4:

- Message 1: Update the stable country group with country group id = *SU00*, start date = *2009-01-01*, country group sid = *22*, end date = *2015-01-01*, area code = *1*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English description country group updated.*
 - description 2: language id = *FR*, description = *French description country group updated.*
 - description 3: language id = *NL*, description = *Dutch description country group updated.*

Transaction 5:

- Message 1: Update the stable country group with country group id = *S300*, start date = *2008-01-01*, country group sid = *17*, area code = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

- country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2010-01-01*.

country group id = *S200*, start date = *2008-01-01*.

Transaction 6:

- Message 1: Update the stable country group with country group id = *SME0*, start date = *2008-01-01*, country group sid = *19*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

 - country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2008-12-31*.

Transaction 7:

- Message 1: Request the country group with operator = *AND*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY*. Country group id, operator = *=*, constant = *SME0*, query space field = *COUNTRY GROUP.COUNTRY GROUP REF.LOGICAL KEY*. Start date, operator = *=*, constant = *2008-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Transaction 8:

- Message 1: Update the stable country group with country group id = *SMA0*, start date = *2008-01-01*, country group sid = *20*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *DE*, start date = *1900-01-01*, country sid = *4*, start date = *2008-01-01*, end date = *2010-01-01*.
country group id = *SME0*, start date = *2008-01-01*, country group sid = *19*.

Transaction 9:

- Message 1: Update the stable country group with country group id = *S400*, start date = *2008-01-01*, country group sid = *18*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 10:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP*
REF.Country group sid, operator = *=*, constant = *18*.

Transaction 11:

- Message 1: Update the stable country group with country group id = *S400*, start date = *2008-01-01*, country group

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

sid = 18, area code = 1:

- description period 1:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 12:

- Message 1: Update the stable country group with country group id = *S400*, start date = *2008-01-01*, country group sid = 18, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *XX*, start date = *2008-01-01*, country sid = 55, start date = *2008-01-01*, end date = *2010-01-01*.

Transaction 13:

- Message 1: Update the stable country group with country group id = *CGM0*, start date = *2007-01-01*, country group sid = 26, area code = 1:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *IT*, start date = *1900-01-01*, country sid = *5*, start date = *2007-01-01*, end date = *2007-12-31*.

Transaction 14:

- Message 1: Update the stable country group with country group id = *S400*, start date = *2008-01-01*, country group sid = *18*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
 - country member 1: country id = *IQ*, start date = *2009-01-01*, country sid = *3*, start date = *2009-01-01*, end date = *2011-01-01*.
 - country member 2: country id = *IQ*, start date = *2009-01-01*, country sid = *3*, start date = *2009-01-01*, end date = *2011-01-01*.

Transaction 15:

- Message 1: Update the stable country group with country group id = *SCG1*, start date = *2008-01-01*, country group sid = *27*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group.

Transaction 16:

- Message 1: Update the stable country group with country group id = *CGM0*, start date = *2008-01-01*, country group sid = *26*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.member.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 3:

- Message 1, on country.group.ref : VR-CG-2: The country group ID cannot be updated.

Reply to transaction 4:

- Message 1, on country.group.ref : VR-CG-25: The validity period of the country group must not overlap any other country group with the same geographical area ID.

Reply to transaction 5:

- Message 1, on country.member : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 6:

- Message 1, on country.group.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on country.member : VR-CTR-23: If the associated country group has a parent country group then the membership period of country within the parent group must span the membership period of the same country in the country group.

Reply to transaction 9:

- Message 1, on country.group.ref : OK.

Reply to transaction 10:

- Message 1 : OK.

Reply to transaction 11:

- Message 1, on description.period.list : VR-CG-5: A description period having the same start date as the geographical area is mandatory.
- Message 1, on description.period : VR-CG-6: The start date of the description period must be enclosed by the validity period of the country group.

Reply to transaction 12:

- Message 1, on country.member : VR-CG-23: The referenced geographical area member must exist.

Reply to transaction 13:

- Message 1, on country.member.list : VR-CTR-20: The membership period of a country must overlap the validity period of the measure when used as an excluded area.

Reply to transaction 14:

- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.
- Message 1, on start.date : VR-CTR-21: When a country is a member of the same country group for more than one period, then there cannot be any overlap in their membership periods.

Reply to transaction 15:

- Message 1, on country.member.list : VR-CTR-22: If the associated country group has a parent country group then all members of the country group must also be members of the parent country group.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 16:

- Message 1, on country.member.list : VR-CTR-25: If a country is referenced as an excluded area in a measure, the membership association with the measure origin/destination country group cannot be deleted.

2.2.5. Test case dm_ref_cg_delete: Deletion of a country group

Message: dm_ref_cg_delete_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *UD00*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Insert a stable country group with country group id = *SD00*, start date = *2008-01-01*, country group sid = 8, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 3:

- Message 1: Insert a stable country group with country group id = *DME0*, start date = *2008-01-01*, country group sid = *9*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 4:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *DME0*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, order number = *094002*, start date = *2008-01-01*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 5:

- Message 1: Insert a stable country group with country group id = *DMA0*, start date = *2008-01-01*, country group sid = *10*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 6:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = *001000*, geographical area id = *DMA0*, start date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

end date = 2008-12-01.

Transaction 7:

- Message 1: Insert a stable country group with country group id = *DAM1*, start date = 2008-01-01, country group sid = 11, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 8:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 001000, geographical area id = *DAM1*, start date = 2008-01-01, maximum value reduction indicator = 1, end date = 2008-12-01.

Transaction 9:

- Message 1: Insert a stable country group with country group id = *PT00*, start date = 2008-01-01, country group sid = 12, end date = 2010-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 10:

- Message 1: Insert a stable country group with country group id = *CH00*, start date = 2008-01-01, country group sid = 13, end date = 2010-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group.

- description 2: language id = *FR*,
description = *French description country group.*
- description 3: language id = *NL*,
description = *Dutch description country group.*

country group id = *PT00*, start date = *2008-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Message:

dm_ref_cg_delete_01.xml

Precondition:

Make sure the message *dm_ref_cg_delete_setup_01.xml* has been correctly processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the country group with country group sid = 7.

Transaction 2:

- Message 1: Delete the country group with country group sid = 8.

Transaction 3:

- Message 1: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP REF.Country group sid*, operator = =, constant = 7.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 2: Request the country group with query space field = *COUNTRY GROUP.COUNTRY GROUP*
REF.Country group sid, operator = =, constant = 8.

Transaction 4:

- Message 1: Delete the country group with country group sid = 7.

Transaction 5:

- Message 1: Delete the country group with country group sid = 8.

Transaction 6:

- Message 1: Delete the country group with country group sid = 9.

Transaction 7:

- Message 1: Delete the country group with country group sid = 10.

Transaction 8:

- Message 1: Delete the country group with country group sid = 11.

Transaction 9:

- Message 1: Delete the country group with country group sid = 12.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on country.group.sid : OK.

Reply to transaction 2:

- Message 1, on country.group.sid : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on country.sid : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on country.sid : VR-VI-3: Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on country.group.sid : VR-CG-16: If a geographical area is referenced in a measure (as an

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

origin/destination geographical area or as an excluded geographical area) then it can not be deleted.

Reply to transaction 7:

- Message 1, on country.group.sid : VR-CG-17: If a geographical area is referenced in a "measures-agricultural duty expressions rules" it can not be deleted.

Reply to transaction 8:

- Message 1, on country.group.sid : VR-CG-18: If a geographical area is referenced in an "agricultural measures validation rules" it can not be deleted.

Reply to transaction 9:

- Message 1, on country.group.sid : VR-CG-19: A geographical area group cannot be deleted if it is referenced as a parent.

2.2.6. Test case dm_ref_cg_di_update: Update of Country group description

Message: dm_ref_cg_di_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_country_group_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group CGUI*.
 - description 2: language id = *FR*, description = *French description country group CGUI*.
 - description 3: language id = *NL*, description = *Dutch description country group CGUI*.

Transaction 2:

- Message 1: Insert a stable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

group id = *CGS0*, start date = *2008-01-01*, country group sid = 8, area code = 1:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group CGS0*.
 - description 2: language id = *FR*, description = *French description country group CGS0*.
 - description 3: language id = *NL*, description = *Dutch description country group CGS0*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Message:

dm_ref_cg_di_update_01.xml

Precondition:

Make sure *dm_ref_cg_di_update_setup_01.xml* message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *-French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Update the unstable country group with country group id = *CGU1*, start date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group sid = 7, area code = 1:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *"French" description country group".*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 3:

- Message 1: Update the unstable country group with country group id = CGU1, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group: Test with a multilingual description which contains more than 500 characters:....*
 - description 3: language id = NL, description = *Dutch description country group.*

Transaction 4:

- Message 1: Update the unstable country group with country group id = CGU1, start date = 2008-01-01, country group sid = 7, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = FR, description = *Second French description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group.

- description 4: language id = *NL*,
description = *Dutch description country group.*

Transaction 5:

- Message 1: Update the unstable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*
 - description 4: language id = *XX*,
description = *Description country group of nonexistent language XX.*

Transaction 6:

- Message 1: Update the unstable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*

Transaction 7:

- Message 1: Update the unstable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*,
description = *English description country group*.
- description 2: language id = *FR*,
description = *French description country group*.
- description 3: language id = *NL*,
description = *Dutch description country group*.

Transaction 8:

- Message 1: Update the unstable country group with
country group id = *CGU1*, start date = *2008-01-01*,
country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country kg. group*.
 - description 2: language id = *FR*,
description = *French description country kg group*.
 - description 3: language id = *NL*,
description = *Dutch description country kg; group*.

Transaction 9:

- Message 1: Update the unstable country group with
country group id = *CGU1*, start date = *2008-01-01*,
country group sid = *7*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country kg: group*.
 - description 2: language id = *FR*,
description = *French description country kg, group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ': '.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Message: **dm_ref_cg_di_update_02.xml**

Precondition: Make sure *dm_ref_cg_di_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *-French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *"French" description country group*".

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 3:

- Message 1: Update the stable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group: Test with a multilingual description which contains more than 500 characters:....*
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 4:

- Message 1: Update the stable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *FR*, description = *Second French description country group*.
 - description 4: language id = *NL*, description = *Dutch description country group*.

Transaction 5:

- Message 1: Update the stable country group with country group id = *CGU1*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- description 1: language id = *EN*, description = *English description country group*.
- description 2: language id = *FR*, description = *French description country group*.
- description 3: language id = *NL*, description = *Dutch description country group*.
- description 4: language id = *XX*, description = *Description country group of nonexistent language XX*.

Transaction 6:

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 7:

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country kg. group.*
 - description 2: language id = *FR*, description = *French description country kg group.*
 - description 3: language id = *NL*, description = *Dutch description country kg; group.*

Transaction 9:

- Message 1: Update the stable country group with country group id = *CGUI*, start date = *2008-01-01*, country group sid = 7, area code = 1:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country kg: group.*
 - description 2: language id = *FR*, description = *French description country kg, group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

Message: **dm_ref_cg_di_update_03.xml**

Precondition: Make sure *dm_ref_cg_di_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *-French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 2:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *"French" description country group*".
 - description 3: language id = *NL*, description = *Dutch description country group*.

Transaction 3:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

country group.

- description 2: language id = *FR*,
description = *French description country group: Test with a multilingual description which contains more than 500 characters:*
- description 3: language id = *NL*,
description = *Dutch description country group.*

Transaction 4:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *FR*,
description = *Second French description country group.*
 - description 4: language id = *NL*,
description = *Dutch description country group.*

Transaction 5:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country group.*
 - description 2: language id = *FR*,
description = *French description country group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*
 - description 4: language id = *XX*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

description = *Description country group of nonexistent language XX.*

Transaction 6:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 7:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group.*
 - description 2: language id = *FR*, description = *French description country group.*
 - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 8:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country kg. group.*
 - description 2: language id = *FR*, description = *French description country*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
COUNTRY GROUP	

kg group.

- description 3: language id = *NL*,
description = *Dutch description country kg; group.*

Transaction 9:

- Message 1: Update the stable country group with country group id = *CGSO*, start date = *2008-01-01*, country group sid = *8*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description country kg: group.*
 - description 2: language id = *FR*,
description = *French description country kg, group.*
 - description 3: language id = *NL*,
description = *Dutch description country group.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

character or (mark-up for) hard space '|'.

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

2.3. Duty expression

2.3.1. Test case init_ref_de_setup: Insertion of Duty expression reference data

Message: **init_ref_duty_expression_setup.xml**

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr.*
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl.*
 - description 2: language id = *FR*, description = *Description francaise nl.*

Transaction 2:

- Message 1: Insert a stable country group with country group id = *1000*, start date = *1900-01-01*, country group sid = *1*, area code = *1*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group.*
 - description 2: language id = *FR*, description = *French Description of country group.*
 - description 3: language id = *NL*, description = *Dutch Description of country group.*
- Message 2: Insert a stable country group with country group id = *1001*, start date = *2008-01-01*, country group sid = *2*, area code = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group.*
 - description 2: language id = *FR*, description = *French Description of country group.*
 - description 3: language id = *NL*, description = *Dutch Description of country group.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Transaction 3:

- Message 1: Insert a stable measure type series with measure type series id = AA, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type combination = 0.

Transaction 4:

- Message 1: Insert a stable additional code type with additional code type id = A, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code type*.
 - description 2: language id = FR, description = *French Description of additional code type*.
 - description 3: language id = NL, description = *Dutch Description of additional code type*.

application code = 1.

Transaction 5:

- Message 1: Insert a stable additional code with additional code type id = A, additional code id = 002, start date = 2008-01-01, additional code sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code*.
 - description 2: language id = FR, description = *French Description of additional code*.
 - description 3: language id = NL, description = *Dutch Description of additional code*.

Transaction 6:

- Message 1: Insert a stable regulation group with regulation group id = GGA, start date = 1980-01-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

English description of the Regulation Group.

- description 2: language id = *FR*, description = *French description of the Regulation Group.*
- description 3: language id = *NL*, description = *Dutch description of the Regulation Group.*
- Message 2: Insert a stable measure type with measure type id = *001000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*.
- associated additional code type 1: additional code type id = *A*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*,
 measure component applicable code = *0*, order number
 capture code = *1*, accepted via input bridge = *0*, priority
 code = *1*.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of goods nomenclature 0101010100.*
 - description 2: language id = *FR*, description = *French Description of goods nomenclature 0101010100.*
 - description 3: language id = *NL*, description = *Dutch Description of goods nomenclature 0101010100.*
 - indent 1: indent sid = *1*, start date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

indent number = 1.

statistical indicator = 0.

Transaction 8:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2000-01-01, official journal number = AAAAA, official journal page = 1234.

Transaction 9:

- Message 1: Insert a stable regulation role type with regulation role type id = 1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*
- Message 3: Insert a stable regulation group with regulation group id = AGR, start date = 1980-01-01:
 - description 1: language id = EN, description = *English description of the Regulation Group.*
 - description 2: language id = FR, description = *French description of the Regulation Group.*
 - description 3: language id = NL, description = *Dutch description of the Regulation Group.*

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 11:

- Message 1: Insert a stable measure type series with measure type series id = A1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type combination = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 2: Insert a stable measure type with measure type id = 001, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AI:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 2, order number capture code = 1, accepted via input bridge = 0, priority code = 1.

- Message 3: Insert a stable measure type with measure type id = 002, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AI:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 2, order number capture code = 1, accepted via input bridge = 0, priority code = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

2.3.2. Test case **dm_ref_de_insert**: Insertion of a duty expression

Message: **dm_ref_de_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable duty expression with duty expression id = 71:
 - description 1: language id = *EN*, description = *English description of the duty expression.*
 - description 2: language id = *FR*, description = *French description of the duty expression.*
 - description 3: language id = *NL*, description = *Dutch Description of the duty expression.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 71.

Transaction 3:

- Message 1: Insert an unstable duty expression with duty expression id = 71:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert an unstable duty expression with duty expression id = AX, start date = 2005-38/11:
 - description 1: language id = EN*, description = *English Description.*
 - description 2: language id = fr, description = *French Description.*
 - description 3: language id = NLH, description = *Dutch Description.*

duty amount applicability code = A, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2009-05-01, end date = 2008-04-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert an unstable duty expression with duty expression id = 72:
 - description 1: language id = FR, description = *French Description.*
 - description 2: language id = NL, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected

The message is composed of transactions replying to the original transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

output: Reply to transaction 1

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2

- Message 1 : OK.

Reply to transaction 3

- Message 1, on duty.expression.ref : VR-DE-1: The duty expression type ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4

- Message 1, on duty.expression.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on duty.amount.applicability.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 5

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Message: **dm_ref_de_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable duty expression with duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

expression id = 71, start date = 2008-01-01:

- description 1: language id = EN, description = *English Description of the duty expression 71.*
- description 2: language id = FR, description = *French Description of the duty expression 71.*
- description 3: language id = NL, description = *Dutch Description of the duty expression 71.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 71.

Transaction 3:

- Message 1: Insert a stable duty expression with duty expression id = 71, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of the duty expression 71.*
 - description 2: language id = FR, description = *French Description of the duty expression 71.*
 - description 3: language id = NL, description = *Dutch Description of the duty expression 71.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert a stable duty expression with duty expression id = 00, start date = 2005-38/11:
 - description 1: language id = EN*, description = *English Description.*
 - description 2: language id = fr, description = *French Description.*
 - description 3: language id = NLH, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2009-05-01, end date = 2008-04-01:
 - description 1: language id = EN, description = *English Description of the duty expression 72.*
 - description 2: language id = FR, description = *French Description of the duty expression 72.*
 - description 3: language id = NL, description = *Dutch Description of the duty expression 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = FR, description = *French Description of the duty expression 72.*
 - description 2: language id = NL, description = *Dutch Description of the duty expression 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2

- Message 1 : OK.

Reply to transaction 3

- Message 1, on duty.expression.ref : VR-DE-1: The duty expression type ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Message: dm_ref_de_insert_03.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 72.*
 - description 2: language id = FR, description = *French description of 72.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 72.*
 - description 2: language id = FR, description = *"French description of 72.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 72.*
 - description 2: language id = FR, description = *French description of 72.*
 - description 3: language id = XX, description = *Description of 72 in a non existent language XX.*
 - description 4: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English/ description of 72.*
 - description 2: language id = FR, description = *French description of 72.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English description of 72.*
 - description 2: language id = FR, description = *French description of 72:.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:

- description 1: language id = EN, description = *English kg. description of 72.*
- description 2: language id = FR, description = *French kg description of 72.*
- description 3: language id = NL, description = *Dutch kg; Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2008-01-01:

- description 1: language id = EN, description = *English kg: description of 72.*
- description 2: language id = FR, description = *French kg, description of 72.*
- description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 5

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Message: **dm_ref_de_insert_04.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

72French description of 72French description of 72French description of 72.

- description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description of 72.*
 - description 2: language id = *FR*, description = *French description of 72.*
 - description 3: language id = *FR*, description = *Second French description of 72.*
 - description 4: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description of 72.*
 - description 2: language id = *FR*, description = *French description of 72.*
 - description 3: language id = *XX*, description = *Description of 72 in a non existent language XX.*
 - description 4: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

English/ description of 72.

- description 2: language id = *FR*, description = *French description of 72.*
- description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English description of 72.*
 - description 2: language id = *FR*, description = *French description of 72:.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English kg. description of 72.*
 - description 2: language id = *FR*, description = *French kg description of 72.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English kg: description of 72.*
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

French kg, description of 72.

- description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 10:

- Message 1: Insert a stable duty expression with duty expression id = 72:
 - description 1: language id = *EN*, description = *English description of 72.*
 - description 2: language id = *FR*, description = *French description of 72.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6

- Message 1, on description : VR-DI-9: Description text

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.3.3. Test case dm_ref_de_update: Update of a duty expression

Message: dm_ref_de_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* message should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*.
 - description 2: language id = *FR*.
 - description 3: language id = *NL*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Insert an unstable duty expression with duty expression id = 73, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 3:

- Message 1: Insert a stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert an unstable duty expression with duty expression id = 75, start date = 2009-05-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = 76, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 76, start date = 2009-05-01, end date = 2012-05-01, measure type id = 001, reduction type = *N*.

Transaction 8:

- Message 1: Insert a stable duty expression with duty expression id = 77, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = 1001, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, additional code id = 002, order number = 094002, start date = 2009-05-01, measure sid = 2, regulation id = R0801010, regulation role type = 1:
 - measure component 1: duty expression id = 77.

Transaction 10:

- Message 1: Insert a stable duty expression with duty expression id = 88, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 11:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 88, start date = 2009-05-01, end date = 2012-05-01, measure type id = 001, reduction type = N.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 11: Status ok.

Message: **dm_ref_de_update_01.xml**

Precondition: Make sure the *dm_ref_de_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable duty expression with duty expression id = 72:
 - description 1: language id = *EN*, description = *English Description of DE 72 updated.*
 - description 2: language id = *FR*, description = *French Description of DE 72 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of DE 72 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 72.

Transaction 3:

- Message 1: Update the unstable duty expression with duty expression id = 98:
 - description 1: language id = *EN*, description = *English Description of DE 98 updated.*
 - description 2: language id = *FR*, description = *French Description of DE 98 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of DE 98 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = *2009-05-01*, end

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

date = 2008-04-01:

- description 1: language id = *EN*, description = *English Description updated.*
- description 2: language id = *FR*, description = *French Description updated.*
- description 3: language id = *NL*, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Update the unstable duty expression with duty expression id = 74, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on duty.expression.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

information also has publication status unstable.

Message: **dm_ref_de_update_02.xml**

Precondition: Make sure the *dm_ref_de_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 72.

Transaction 3:

- Message 1: Update the stable duty expression with duty expression id = 73, start date = 2009-05-01, end date = 2008-04-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Update the stable duty expression with duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

expression id = 73:

- description 1: language id = *EN*, description = *English Description updated.*
- description 2: language id = *FR*, description = *French Description updated.*
- description 3: language id = *NL*, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Update the stable duty expression with duty expression id = 76, start date = 2009-05-01, end date = 2010-01-01:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 4:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 6:

- Message 1, on duty.expression.ref : VR-DE-4: The validity period of the duty expression must span the validity period of the agricultural duty expressions, in which it is referenced.

Message: dm_ref_de_update_03.xml

Precondition: Make sure the dm_ref_de_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of duty expression id 74 updated.*
 - description 2: language id = FR, description = *French Description of duty expression id 74 updated.*
 - description 3: language id = NL, description = *Dutch Description of duty expression id 74 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 74.

Transaction 3:

- Message 1: Update the stable duty expression with duty expression id = 98, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of duty expression id 98 updated.*
 - description 2: language id = FR, description = *French Description of duty expression id 98 updated.*
 - description 3: language id = NL, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Dutch Description of duty expression id 98 updated.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01, end date = 2008-04-01:
 - description 1: language id = EN, description = *English Description of duty expression id 74 updated.*
 - description 2: language id = FR, description = *French Description of duty expression id 74 updated.*
 - description 3: language id = NL, description = *Dutch Description of duty expression id 74 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Update the stable duty expression with duty expression id = 74:
 - description 1: language id = EN, description = *English Description of duty expression id 74 updated.*
 - description 2: language id = FR, description = *French Description of duty expression id 74 updated.*
 - description 3: language id = NL, description = *Dutch Description of duty expression id 74 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Update the stable duty expression with duty expression id = 77, start date = 2009-05-01, end date = 2009-06-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

English Description of duty expression id 77 updated.

- description 2: language id = *FR*, description = *French Description of duty expression id 77 updated.*
- description 3: language id = *NL*, description = *Dutch Description of duty expression id 77 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Update the stable duty expression with duty expression id = 88, start date = 2009-05-01, end date = 2010-01-01:
 - description 1: language id = *EN*, description = *English Description of duty expression id 88 updated.*
 - description 2: language id = *FR*, description = *French Description of duty expression id 88 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of duty expression id 88 updated.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on duty.expression.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 7:

- Message 1, on duty.expression.ref : VR-DE-3: The validity period of the duty expression must span the validity period of the measure, in which it is referenced.

Reply to transaction 8:

- Message 1, on duty.expression.ref : VR-DE-4: The validity period of the duty expression must span the validity period of the agricultural duty expressions, in which it is referenced.

Message: **dm_ref_de_update_04.xml**

Precondition: Make sure the dm_ref_de_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 72.*
 - description 2: language id = FR, description = *French Description of 72.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 72.*
 - description 2: language id = FR, description = *French Description of 72.*
 - description 3: language id = NL, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 72.*
 - description 2: language id = FR, description = *French Description of 72.*
 - description 3: language id = XX, description = *Description of 72 in a non existent language.*
 - description 4: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 72.*
 - description 2: language id = FR, description = *French Description of 72.*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 72.*
 - description 2: language id = FR, description = *French Description of 72.:*
 - description 3: language id = NL, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

0.

Transaction 8:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = English kg. Description of 72.
 - description 2: language id = FR, description = French kg Description of 72.
 - description 3: language id = NL, description = Dutch kg; Description of 72.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Update the unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = English kg: Description of 72.
 - description 2: language id = FR, description = French kg, Description of 72.
 - description 3: language id = NL, description = Dutch Description of 72.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-VI-1: Data to be updated must exist.
- Message 1, on language.id : VR-VI-1: Data to be updated must exist.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Message: **dm_ref_de_update_05.xml**

Precondition: Make sure the dm_ref_de_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *- French Description of 72.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *"French Description of 72.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 3:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *French Description of 72French Description of 72French Description of 72French Description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

of 72French Description of 72.

- description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *French Description of 72.*
 - description 3: language id = *FR*, description = *Second French Description of 72.*
 - description 4: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *French Description of 72.*
 - description 3: language id = *XX*, description = *Description of 72 in a non existent language.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- description 4: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *French Description of 72.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 72.*
 - description 2: language id = *FR*, description = *French Description of 72:.*
 - description 3: language id = *NL*, description = *Dutch Description of 72.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English kg. Description of 72.*
 - description 2: language id = *FR*, description = *French kg Description of 72.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of 72.*

duty amount applicability code = 0, measurement unit

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Update the stable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = EN, description = English kg: Description of 72.
 - description 2: language id = FR, description = French kg, Description of 72.
 - description 3: language id = NL, description = Dutch Description of 72.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 10:

- Message 1: Update the stable duty expression with duty expression id = 52, start date = 2009-05-01:
 - description 1: language id = EN, description = English Description of 52.
 - description 2: language id = FR, description = French Description of 52.
 - description 3: language id = NL, description = Dutch Description of 52.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-VI-1: Data to be updated must exist.
- Message 1, on language.id : VR-VI-1: Data to be updated must exist.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 10:

- Message 1, on duty.expression.ref : VR-VI-1: Data to be updated must exist.

Message: **dm_ref_de_update_06.xml**

Precondition: Make sure the dm_ref_de_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 74.*
 - description 2: language id = FR, description = *French Description of 74.*
 - description 3: language id = NL, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 74.*
 - description 2: language id = FR, description = *French Description of 74.*
 - description 3: language id = NL, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 3:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = EN, description = *English Description of 74.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- description 3: language id = *XX*, description = *Description of 74 in a non existent language.*
- description 4: language id = *NL*, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 74.*
 - description 2: language id = *FR*, description = *French Description of 74.*
 - description 3: language id = *NL*, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description of 74.*
 - description 2: language id = *FR*, description = *French Description of 74:.*
 - description 3: language id = *NL*, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English kg. Description of 74.*
 - description 2: language id = *FR*, description = *French kg Description of 74.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- description 3: language id = *NL*, description = *Dutch kg; Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Update the stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English kg; Description of 74.*
 - description 2: language id = *FR*, description = *French kg, Description of 74.*
 - description 3: language id = *NL*, description = *Dutch Description of 74.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-VI-1: Data to be updated must exist.
- Message 1, on language.id : VR-VI-1: Data to be updated must exist.

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

2.3.4. Test case **dm_ref_de_delete**: Deletion of a duty expression

Message: **dm_ref_de_delete_setup_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_duty_expression_setup.xml* messages should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable duty expression with duty expression id = 72, start date = 2009-05-01:
 - description 1: language id = *EN*.
 - description 2: language id = *FR*.
 - description 3: language id = *NL*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Insert a stable duty expression with duty expression id = 73, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 3:

- Message 1: Insert a stable duty expression with duty expression id = 74, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 5:

- Message 1: Insert a stable duty expression with duty expression id = 75, start date = 2009-05-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert a stable duty expression with duty expression id = 66, start date = 2009-05-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Insert a stable measure condition code with condition code = *AH*, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
DUTY EXPRESSION	

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Message: **dm_ref_de_delete_01.xml**

Precondition: Make sure the message dm_ref_de_delete_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the duty expression with duty expression id = 72.

Transaction 2:

- Message 1: Delete the duty expression with duty expression id = 73.

Transaction 3:

- Message 1: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 72.
- Message 2: Request the duty expression with query space field = *DUTY EXPRESSION.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 73.

Transaction 4:

- Message 1: Delete the duty expression with duty expression id = 72.

Transaction 5:

- Message 1: Delete the duty expression with duty expression id = 73.

Transaction 6:

- Message 1: Delete the duty expression with duty expression id = 74.

Transaction 7:

- Message 1: Delete the duty expression with duty expression id = 75.

Transaction 8:

- Message 1: Delete the duty expression with duty expression id = 66.

Expected The message is composed of transactions replying to the original transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

output: Reply to transaction 1:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 2:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on duty.expression.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on duty.expression.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 7:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 8:

- Message 1, on duty.expression.ref : OK.

2.4. Additional code type

2.4.1. Test case init_ref_ct_setup: Insertion of Additional code type reference data

Message: **init_ref_add_code_type_setup.xml**

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

Transaction 2:

- Message 1: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

English Description of FR.

Transaction 3:

- Message 1: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of NL*.
 - description 2: language id = *FR*, description = *Description française NL*.

Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = *GRA*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of GRA*.
 - description 2: language id = *FR*, description = *Description française de GRA*.
 - description 3: language id = *NL*, description = *Nederlandse beschrijving van GRA*.

Transaction 5:

- Message 1: Insert a stable measure type series with measure type series id = *A*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of A*.
 - description 2: language id = *FR*, description = *Description française de A*.
 - description 3: language id = *NL*, description = *Nederlandse beschrijving van A*.

measure type combination = *0*.

Transaction 6:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *01*, start date = *2008-01-01*:
 - heading 1: meursing heading number = *010*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of A*.
 - description 2: language id = *FR*, description = *Description française de A*.
 - description 3: language id = *NL*, description = *Nederlandse beschrijving*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

van A.

- subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
 - subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*
- heading 2: meursing heading number = 010, row column code = 1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of A.*
 - description 2: language id = FR, description = *Description francaise de A.*
 - description 3: language id = NL, description = *Nederlandse beschrijving van A.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
 - subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*
- heading 3: meursing heading number = 020, row column code = 0, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of A.*
 - description 2: language id = FR, description = *Description francaise de A.*
 - description 3: language id = NL, description = *Nederlandse beschrijving van A.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
 - subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*
- heading 4: meursing heading number = 020, row column code = 1, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 1: language id = *EN*,
description = *English Description of A.*
- description 2: language id = *FR*,
description = *Description francaise de A.*
- description 3: language id = *NL*,
description = *Nederlandse beschrijving van A.*
- subheading 1: sequence number = *0010*,
start date = *2008-01-01*, description = *abc.*
- subheading 2: sequence number = *0020*,
start date = *2008-01-01*, description = *abc.*

Transaction 10:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *02*, start date = *2008-01-01*:
 - heading 1: meursing heading number = *010*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of A.*
 - description 2: language id = *FR*,
description = *Description francaise de A.*
 - description 3: language id = *NL*,
description = *Nederlandse beschrijving van A.*
 - subheading 1: sequence number = *0010*,
start date = *2008-01-01*, description = *abc.*
 - subheading 2: sequence number = *0020*,
start date = *2008-01-01*, description = *abc.*
 - heading 2: meursing heading number = *010*, row column code = *1*, start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of A.*
 - description 2: language id = *FR*,
description = *Description francaise de A.*
 - description 3: language id = *NL*,
description = *Nederlandse beschrijving*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

van A.

- subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
- subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*
- heading 3: meursing heading number = 020, row column code = 0, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of A.*
 - description 2: language id = FR, description = *Description francaise de A.*
 - description 3: language id = NL, description = *Nederlandse beschrijving van A.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
 - subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*
- heading 4: meursing heading number = 020, row column code = 1, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of A.*
 - description 2: language id = FR, description = *Description francaise de A.*
 - description 3: language id = NL, description = *Nederlandse beschrijving van A.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *abc.*
 - subheading 2: sequence number = 0020, start date = 2008-01-01, description = *abc.*

Transaction 7:

- Message 1: Insert a stable meursing additional code with meursing additional code id = 123, start date = 2008-01-

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

01:

- meursing table cell component 1: meursing table plan id = 01, meursing heading number = 010, row column code = 0, sequence number = 0010, start date = 2008-01-01.
- meursing table cell component 2: meursing table plan id = 01, meursing heading number = 010, row column code = 1, sequence number = 0020, start date = 2008-01-01.
- meursing table cell component 3: meursing table plan id = 01, meursing heading number = 020, row column code = 0, sequence number = 0010, start date = 2008-01-01.
- meursing table cell component 4: meursing table plan id = 01, meursing heading number = 020, row column code = 1, sequence number = 0020, start date = 2008-01-01.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.
 - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.
 statistical indicator = 0.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

2.4.2. Test case **dm_ref_ct_insert**: Insertion of a additional code type

Message: **dm_ref_ct_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, `init_ref_add_code_type_setup` messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- application code = *1*.

Transaction 2:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = *=*, constant = *Z*.

Transaction 3:

- Message 1: Insert an unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 1.

Transaction 4:

- Message 1: Insert an unstable additional code type with additional code type id = Z, start date = 2008/31-01:
 - description 1: language id = EN1, description = *English Description.*
 - description 2: language id = FR2, description = *French Description.*
 - description 3: language id = nl, description = *Dutch Description.*

application code = -1.

Transaction 5:

- Message 1: Insert an unstable additional code type with additional code type id = Y, start date = 2009-05-01, end date = 2008-04-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 1.

Transaction 6:

- Message 1: Insert an unstable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = FR, description = *French Description.*
 - description 2: language id = NL, description = *Dutch Description.*

application code = 1.

Transaction 7:

- Message 1: Insert an unstable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*, meursing table plan id = *10*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.type.ref : VR-CT-1: The additional code type must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on application.code : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : VR-CT-4: The Meursing table plan can only be entered if the additional code type has as application code "Meursing table additional code type".
- Message 1, on additional.code.type.ref : VR-VI-9: When the publication status of data is set to unstable, all foreign key references must exist either as "unstable"

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

data or "stable" data.

Message: **dm_ref_ct_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_add_code_type_setup messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

application code = 1.

Transaction 2:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = =, constant = Z.

Transaction 3:

- Message 1: Insert a stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

application code = 1.

Transaction 4:

- Message 1: Insert a stable additional code type with additional code type id = Z, start date = 2008/31-01:
 - description 1: language id = ENI, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

English Description.

- description 2: language id = *FR2*, description = *French Description.*
- description 3: language id = *nl*, description = *Dutch Description.*

application code = *-1*.

Transaction 5:

- Message 1: Insert a stable additional code type with additional code type id = *Y*, start date = *2009-05-01*, end date = *2008-04-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 6:

- Message 1: Insert a stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *FR*, description = *French Description.*
 - description 2: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 7:

- Message 1: Insert a stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *0*, meursing table plan id = *10*.

Transaction 8:

- Message 1: Insert a stable additional code type with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

additional code type id = Y, start date = 2008-01-01:

- description 1: language id = EN, description = *English Description*.
- description 2: language id = FR, description = *French Description*.
- description 3: language id = NL, description = *Dutch Description*.

application code = 3, meursing table plan id = 02.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.type.ref : VR-CT-1: The additional code type must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on application.code : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : VR-CT-4: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Meursing table plan can only be entered if the additional code type has as application code "Meursing table additional code type".

- Message 1, on additional.code.type.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as "stable".

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as "stable".

Message: dm_ref_ct_insert_03.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_add_code_type_setup messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code type with additional code type id = G, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of G.*
 - description 2: language id = FR, description = *French Description of G.*
 - description 3: language id = NL, description = *Dutch Description of G.*

application code = 1.

Transaction 2:

- Message 1: Insert an unstable additional code type with additional code type id = G, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of G.*
 - description 2: language id = FR, description = *French Description of G.*
 - description 3: language id = NL, description = *Dutch Description of G.*

application code = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

English Description of G.

- description 2: language id = *FR*, description = *French Description of G.*
- description 3: language id = *XX*, description = *Description of G in a non existent language XX.*
- description 4: language id = *NL*, description = *Dutch Description of G.*

application code = *1*.

Transaction 6:

- Message 1: Insert an unstable additional code type with additional code type id = *G*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English /Description of G.*
 - description 2: language id = *FR*, description = *French Description of G.*
 - description 3: language id = *NL*, description = *Dutch Description of G.*

application code = *1*.

Transaction 7:

- Message 1: Insert an unstable additional code type with additional code type id = *G*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of G.*
 - description 2: language id = *FR*, description = *French Description of G:.*
 - description 3: language id = *NL*, description = *Dutch Description of G.*

application code = *1*.

Transaction 8:

- Message 1: Insert an unstable additional code type with additional code type id = *G*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of G.*
 - description 2: language id = *FR*, description = *French kg Description of G.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of G.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 1.

Transaction 9:

- Message 1: Insert an unstable additional code type with additional code type id = G, start date = 2008-01-01:
 - description 1: language id = EN, description = English kg: Description of G.
 - description 2: language id = FR, description = French kg, Description of G.
 - description 3: language id = NL, description = Dutch Description of G.

application code = 1.

Transaction 10:

- Message 1: Insert an unstable additional code type with additional code type id = G, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of G.
 - description 2: language id = FR, description = French Description of G.
 - description 3: language id = NL, description = Dutch Description of G.

application code = 1, meursing table plan id = 77.

Expected output:

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on meursing.table.plan.ref : VR-CT-4: The Meursing table plan can only be entered if the additional code type has as application code "Meursing table additional code type".
- Message 1, on additional.code.type.ref : VR-VI-9: When the publication status of data is set to unstable, all foreign key references must exist either as "unstable" data or "stable" data.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

*of H French Description of H French
Description of H French Description of H
French Description of H French Description of
H French Description of H French Description
of H French Description of H French
Description of H French Description of H
French Description of H French Description of
H French Description of H French Description
of H French Description of H.*

- description 3: language id = *NL*, description = *Dutch Description of H.*

application code = *1.*

Transaction 4:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of H.*
 - description 2: language id = *FR*, description = *French Description of H.*
 - description 3: language id = *FR*, description = *Second French Description of H.*
 - description 4: language id = *NL*, description = *Dutch Description of H.*

application code = *1.*

Transaction 5:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of H.*
 - description 2: language id = *FR*, description = *French Description of H.*
 - description 3: language id = *XX*, description = *Description of H in a non existent language XX.*
 - description 4: language id = *NL*, description = *Dutch Description of H.*

application code = *1.*

Transaction 6:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 1: language id = *EN*, description = *English /Description of H.*
- description 2: language id = *FR*, description = *French Description of H.*
- description 3: language id = *NL*, description = *Dutch Description of H.*

application code = 1.

Transaction 7:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of H.*
 - description 2: language id = *FR*, description = *French Description of H:.*
 - description 3: language id = *NL*, description = *Dutch Description of H.*

application code = 1.

Transaction 8:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of H.*
 - description 2: language id = *FR*, description = *French kg Description of H.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of H.*

application code = 1.

Transaction 9:

- Message 1: Insert a stable additional code type with additional code type id = *H*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg: Description of H.*
 - description 2: language id = *FR*, description = *French kg, Description of H.*
 - description 3: language id = *NL*, description = *Dutch Description of H.*

application code = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Transaction 10:

- Message 1: Insert a stable additional code type with additional code type id = *H*:
 - description 1: language id = *EN*, description = *English Description of H*.
 - description 2: language id = *FR*, description = *French Description of H*.
 - description 3: language id = *NL*, description = *Dutch Description of H*.
- application code = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.4.3. Test case dm_ref_ct_update: Update of a additional code type

Message: dm_ref_ct_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_add_code_type_setup messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code type with additional code type id = Z:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

French Description.

- description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 2:

- Message 1: Insert an unstable additional code type with additional code type id = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 3:

- Message 1: Insert an unstable additional code with additional code type id = *X*, additional code id = *111*, start date = *2008-01-01*, additional code sid = *10*, end date = *2008-12-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *1*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 4:

- Message 1: Insert an unstable additional code type with additional code type id = *W*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1: Insert an unstable measure type with measure type id = 001, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = A:

- associated regulation group 1: regulation group id = GRA.
- associated additional code type 1: additional code type id = W.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 0, order number capture code = 1, accepted via input bridge = 1, priority code = 1.

Transaction 6:

- Message 1: Insert an unstable additional code type with additional code type id = U, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 1.

Transaction 7:

- Message 1: Insert an unstable additional code with additional code type id = U, additional code id = 112, start date = 2008-01-01, additional code sid = 11, end date = 2008-12-01:
 - description period 1: start date = 2008-01-01, description period sid = 2:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 3: language id = *NL*, description = *Dutch Description*.

Transaction 8:

- Message 1: Insert an unstable additional code type with additional code type id = *Q*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

Transaction 9:

- Message 1: Insert an unstable measure type with measure type id = *002*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *A*:

- associated regulation group 1: regulation group id = *GRA*.
- associated additional code type 1: additional code type id = *Q*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *1*, accepted via input bridge = *1*, priority code = *1*.

Transaction 10:

- Message 1: Insert a stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

Transaction 11:

- Message 1: Insert a stable additional code type with additional code type id = *P*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

Transaction 12:

- Message 1: Insert a stable additional code with additional code type id = *P*, additional code id = *113*, start date = *2008-01-01*, additional code sid = *12*, end date = *2008-12-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *3*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 13:

- Message 1: Insert a stable additional code type with additional code type id = *N*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

Transaction 15:

- Message 1: Insert a stable additional code type with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

additional code type id = *S*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

Transaction 14:

- Message 1: Insert a stable measure type with measure type id = *003*, start date = *2008-01-02*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *A*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2008-01-03*, end date = *2008-01-05*.
- associated additional code type 1: additional code type id = *N*, start date = *2008-01-03*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *1*, accepted via input bridge = *1*, priority code = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Message: **dm_ref_ct_update_01.xml**

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable additional code type with additional code type id = Z:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 2:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = *=*, constant = *Z*.

Transaction 3:

- Message 1: Update the unstable additional code type with additional code type id = *V*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Dutch Description updated.

application code = 1.

Transaction 4:

- Message 1: Update the unstable additional code type with additional code type id = V, start date = 2008-01-01, end date = 2007-04-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Transaction 5:

- Message 1: Update the unstable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Transaction 6:

- Message 1: Update the unstable additional code type with additional code type id = X, start date = 2008-01-01, end date = 2008-08-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Transaction 7:

- Message 1: Update the unstable additional code type with additional code type id = W, start date = 2008-01-

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

01, end date = 2008-08-01:

- description 1: language id = *EN*, description = *English Description updated.*
- description 2: language id = *FR*, description = *French Description updated.*
- description 3: language id = *NL*, description = *Dutch Description updated.*

application code = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.type.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on additional.code.type.ref : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status "unstable".

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-CT-5: The validity period of the additional code type must span the validity period of the additional code when used in an additional code.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-CT-6: The validity period of the measure type and the validity period of the additional code type must span the validity period of the "measure type-additional code type" link.

Message: dm_ref_ct_update_02.xml

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code type with additional code type id = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 2:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = *=*, constant = *X*.

Transaction 3:

- Message 1: Update the stable additional code type with additional code type id = *V*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 4:

- Message 1: Update the stable additional code type with additional code type id = *S*, start date = *2008-01-01*, end date = *2007-04-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 1.

Transaction 5:

- Message 1: Update the stable additional code type with additional code type id = S, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1, meursing table plan id = 10.

Transaction 6:

- Message 1: Update the stable additional code type with additional code type id = X, start date = 2008-01-01, end date = 2008-08-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Transaction 7:

- Message 1: Update the stable additional code type with additional code type id = Q, start date = 2008-01-01, end date = 2008-08-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.type.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on meursing.table.plan.ref : VR-CT-4: The Meursing table plan can only be entered if the additional code type has as application code "Meursing table additional code type".
- Message 1, on additional.code.type.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as "stable".

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-CT-5: The validity period of the additional code type must span the validity period of the additional code when used in an additional code.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-CT-6: The validity period of the measure type and the validity period of the additional code type must span the validity period of the "measure type-additional code type" link.

Message: **dm_ref_ct_update_03.xml**

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 2:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = *=*, constant = *Y*.

Transaction 3:

- Message 1: Update the stable additional code type with additional code type id = *V*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 4:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*, end date = *2007-04-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

Transaction 5:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 1, meursing table plan id = 10.

Transaction 6:

- Message 1: Update the stable additional code type with additional code type id = P, start date = 2008-01-01, end date = 2008-08-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Transaction 7:

- Message 1: Update the stable additional code type with additional code type id = N, start date = 2008-01-01, end date = 2008-08-01:
 - description 1: language id = EN, description = *English Description updated.*
 - description 2: language id = FR, description = *French Description updated.*
 - description 3: language id = NL, description = *Dutch Description updated.*

application code = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.type.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1, on meursing.table.plan.ref : VR-CT-4: The Meursing table plan can only be entered if the additional code type has as application code "Meursing table additional code type".
- Message 1, on additional.code.type.ref : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as "stable".

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-CT-5: The validity period of the additional code type must span the validity period of the additional code when used in an additional code.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-CT-6: The validity period of the measure type and the validity period of the additional code type must span the validity period of the "measure type-additional code type" link.

Message: dm_ref_ct_update_04.xml

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of Z.
 - description 2: language id = FR, description = - French Description of Z.
 - description 3: language id = NL, description = Dutch Description of Z.

application code = 1.

Transaction 2:

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of Z.
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

"French Description of Z.

- description 3: language id = *NL*, description = *Dutch Description of Z.*

application code = *1.*

Transaction 3:

- Message 1: Update the unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description of Z.*

- description 2: language id = *FR*, description = *French Description of Z French Description of Z.*

- description 3: language id = *NL*, description = *Dutch Description of Z.*

application code = *1.*

Transaction 4:

- Message 1: Update the unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description of Z.*

- description 2: language id = *FR*, description = *French Description of Z.*

- description 3: language id = *FR*, description = *Second French Description of Z.*

- description 4: language id = *NL*, description = *Dutch Description of Z.*

application code = *1.*

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = XX, description = *Description of Z in a non existent language.*
 - description 4: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 6:

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English /Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 7:

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z:.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 8:

- Message 1: Update the unstable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg. Description of Z.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

French kg Description of Z.

- description 3: language id = *NL*, description = *Dutch kg; Description of Z.*

application code = *1*.

Transaction 9:

- Message 1: Update the unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg; Description of Z.*
 - description 2: language id = *FR*, description = *French kg, Description of Z.*
 - description 3: language id = *NL*, description = *Dutch Description of Z.*

application code = *1*.

Transaction 10:

- Message 1: Update the unstable additional code type with additional code type id = *Z*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Z.*
 - description 2: language id = *FR*, description = *French Description of Z.*
 - description 3: language id = *NL*, description = *Dutch Description of Z.*

application code = *1*, meursing table plan id = *78*.

The message is composed of transactions replying to the original transactions:

Expected output:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '-'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1, on additional.code.type.ref : VR-VI-9: When the publication status of data is set to unstable, all foreign key references must exist either as "unstable" data or "stable" data.

Message: **dm_ref_ct_update_05.xml**

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 2:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 3:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z French Description of Z French Description of Z*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English /Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 7:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z:.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Transaction 8:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg. Description of Z.*
 - description 2: language id = FR, description = *French kg Description of Z.*
 - description 3: language id = NL, description = *Dutch kg; Description of Z.*

application code = 1.

Transaction 9:

- Message 1: Update the stable additional code type with additional code type id = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English kg: Description of Z.*
 - description 2: language id = FR, description = *French kg, Description of Z.*
 - description 3: language id = NL, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Dutch Description of Z.

application code = 1.

Transaction 10:

- Message 1: Update the stable additional code type with additional code type id = Z:
 - description 1: language id = EN, description = *English Description of Z.*
 - description 2: language id = FR, description = *French Description of Z.*
 - description 3: language id = NL, description = *Dutch Description of Z.*

application code = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Message: dm_ref_ct_update_06.xml

Precondition: Make sure the dm_ref_ct_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of Y.
 - description 2: language id = FR, description = -

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 1: language id = *EN*, description = *English Description of Y.*
- description 2: language id = *FR*, description = *French Description of Y.*
- description 3: language id = *FR*, description = *Second French Description of Y.*
- description 4: language id = *NL*, description = *Dutch Description of Y.*

application code = 1.

Transaction 5:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Y.*
 - description 2: language id = *FR*, description = *French Description of Y.*
 - description 3: language id = *XX*, description = *Description of Y in a non existent language.*
 - description 4: language id = *NL*, description = *Dutch Description of Y.*

application code = 1.

Transaction 6:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Y.*
 - description 2: language id = *FR*, description = *French Description of Y.*
 - description 3: language id = *NL*, description = *Dutch Description of Y.*

application code = 1.

Transaction 7:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Y.*
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

French Description of Y:

- description 3: language id = *NL*, description = *Dutch Description of Y*.

application code = *1*.

Transaction 8:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of Y*.
 - description 2: language id = *FR*, description = *French kg Description of Y*.
 - description 3: language id = *NL*, description = *Dutch kg; Description of Y*.

application code = *1*.

Transaction 9:

- Message 1: Update the stable additional code type with additional code type id = *Y*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English kg: Description of Y*.
 - description 2: language id = *FR*, description = *French kg, Description of Y*.
 - description 3: language id = *NL*, description = *Dutch Description of Y*.

application code = *1*.

Transaction 10:

- Message 1: Update the stable additional code type with additional code type id = *Y*:
 - description 1: language id = *EN*, description = *English Description of Y*.
 - description 2: language id = *FR*, description = *French Description of Y*.
 - description 3: language id = *NL*, description = *Dutch Description of Y*.

application code = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-character mark-up for the Output Bridge).

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':|'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.4.4. Test case dm_ref_ct_delete: Deletion of a additional code type

Message: dm_ref_ct_delete_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_add_code_type_setup messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code type with additional code type id = Z:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 1.

Transaction 2:

- Message 1: Insert a stable additional code type with additional code type id = Y, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 1.

Transaction 3:

- Message 1: Insert an unstable additional code type with additional code type id = X, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 1.

Transaction 4:

- Message 1: Insert an unstable additional code with additional code type id = X, additional code id = 111, start date = 2008-01-01, additional code sid = 10, end date = 2008-12-01:
 - description period 1: start date = 2008-01-01, description period sid = 1:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

Transaction 5:

- Message 1: Insert a stable additional code type with additional code type id = R, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 3, meursing table plan id = 01.

Transaction 6:

- Message 1: Insert an unstable additional code type with additional code type id = U, start date = 2008-01-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

English Description.

- description 2: language id = *FR*, description = *French Description.*
- description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 7:

- Message 1: Insert a stable additional code type with additional code type id = *S*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 8:

- Message 1: Insert a stable additional code with additional code type id = *S*, additional code id = *113*, start date = *2008-01-01*, additional code sid = *11*, end date = *2008-12-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *2*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 9:

- Message 1: Insert a stable additional code type with additional code type id = *Q*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

application code = 4.

Transaction 10:

- Message 1: Insert a stable measure type with measure type id = 001, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = A:

- associated regulation group 1: regulation group id = GRA, start date = 2008-01-01.
- associated additional code type 1: additional code type id = Q, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 0, order number capture code = 2, accepted via input bridge = 1, priority code = 1.

Transaction 11:

- Message 1: Insert a stable additional code type with additional code type id = T, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

application code = 0.

Transaction 12:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = T, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
 - description period 1: start date = 2008-01-01, description period sid = 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *0*.

Transaction 13:

- Message 1: Insert a stable additional code type with additional code type id = *W*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = *4*.

Transaction 14:

- Message 1: Insert a stable additional code with additional code type id = *W*, additional code id = *113*, start date = *2008-01-01*, additional code sid = *12*, end date = *2008-12-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *4*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Message: **dm_ref_ct_delete_01.xml**

Precondition: Make sure the message dm_ref_ct_delete_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the additional code type with additional code type id = Z.

Transaction 2:

- Message 1: Delete the additional code type with additional code type id = Y.

Transaction 3:

- Message 1: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = =, constant = Z.
- Message 2: Request the additional code type with query space field = *ADDITIONAL CODE TYPE.ADDITIONAL CODE TYPE REF.Additional code type id*, operator = =, constant = Y.

Transaction 4:

- Message 1: Delete the additional code type with additional code type id = Z.

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE TYPE	

- Message 1: Delete the additional code type with additional code type id = *Y*.

Transaction 6:

- Message 1: Delete the additional code type with additional code type id = *U*.

Transaction 7:

- Message 1: Delete the additional code type with additional code type id = *R*.

Transaction 8:

- Message 1: Delete the additional code type with additional code type id = *S*.

Transaction 9:

- Message 1: Delete the additional code type with additional code type id = *Q*.

Transaction 10:

- Message 1: Delete the additional code type with additional code type id = *T*.

Transaction 11:

- Message 1: Delete the additional code type with additional code type id = *W*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 2:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on additional.code.type.ref : VR_VI_3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on additional.code.type.ref : VR_VI_3: Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-CT-9: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

type cannot be deleted if it is related with a Meursing additional code.

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-CT-8: The type cannot be deleted if it is related with a non-Meursing additional code.

Reply to transaction 9:

- Message 1, on additional.code.type.ref : VR-CT-11: The type cannot be deleted if it is related with a measure type.

Reply to transaction 10:

- Message 1, on additional.code.type.ref : VR-CT-10: The type cannot be deleted if it is related with an ERN code.

Reply to transaction 11:

- Message 1, on additional.code.type.ref : VR-CT-8: The type cannot be deleted if it is related with a non-Meursing additional code.
- Message 1, on additional.code.type.ref : VR-CT-12: The additional code type cannot be deleted if it is related with an Export Refund for Processed Agricultural Goods additional code.

2.5. Additional code

2.5.1. Test case `init_additional_code_setup`: Insertion of Additional Code reference data

Message: `init_ref_additional_code_setup.xml`

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

Transaction 2:

- Message 1: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr*.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl*.
 - description 2: language id = *FR*, description = *Description francaise nl*.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
 - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.
 statistical indicator = *0*.

Transaction 5:

- Message 1: Insert a stable additional code type with additional code type id = *1*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of additional code*.
 - description 2: language id = *FR*, description = *French Description of additional code*.
 - description 3: language id = *NL*, description = *Dutch Description of additional code*.
 application code = *1*.

Transaction 6:

- Message 1: Insert a stable additional code type with additional code type id = *M*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of additional code M*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

French Description of additional code M.

- description 3: language id = *NL*, description = *Dutch Description of additional code M.*

application code = 3.

Transaction 7:

- Message 1: Insert a stable additional code type with additional code type id = 3, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code.*
 - description 2: language id = *FR*, description = *French Description of additional code.*
 - description 3: language id = *NL*, description = *Dutch Description of additional code.*

application code = 3.

Transaction 8:

- Message 1: Insert a stable additional code type with additional code type id = 0, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code.*
 - description 2: language id = *FR*, description = *French Description of additional code.*
 - description 3: language id = *NL*, description = *Dutch Description of additional code.*

application code = 0.

Transaction 9:

- Message 1: Insert an unstable additional code type with additional code type id = C, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description of additional code.*
 - description 2: language id = *FR*, description = *French Description of additional code.*
 - description 3: language id = *NL*, description = *Dutch Description of additional code.*

application code = 1.

Transaction 10:

- Message 1: Insert a stable additional code type with additional code type id = Z, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*, description = *English description for additional code type Z.*
- description 2: language id = *FR*, description = *French description for additional code type Z.*
- description 3: language id = *NL*, description = *Dutch description for additional code type Z.*

application code = 0.

Transaction 11:

- Message 1: Insert a stable footnote type with footnote type id = *CG*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = 5.

Transaction 12:

- Message 1: Insert an unstable footnote type with footnote type id = *CI*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = 5.

Transaction 13:

- Message 1: Insert an unstable footnote type with footnote type id = *FTA*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = 7.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 2: Insert a stable footnote type with footnote type id = *FTS*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = 7.

Transaction 14:

- Message 1: Insert a stable footnote with footnote type id = *CG*, footnote id = *007*, start date = *2007-01-01*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 15:

- Message 1: Insert a stable footnote with footnote type id = *CG*, footnote id = *008*, start date = *2007-01-01*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 16:

- Message 1: Insert an unstable footnote with footnote type id = *CI*, footnote id = *015*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 3: language id = *NL*,
description = *Dutch Description*.

Transaction 17:

- Message 1: Insert an unstable footnote with footnote type id = *CI*, footnote id = *016*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.

Transaction 18:

- Message 1: Insert an unstable footnote with footnote type id = *FTA*, footnote id = *015*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.
- Message 2: Insert a stable footnote with footnote type id = *FTS*, footnote id = *016*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.

Transaction 19:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2007-06-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

French Description.

- description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = *0*.

Transaction 22:

- Message 1: Insert a stable regulation group with regulation group id = *SRG*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*

Transaction 20:

- Message 1: Insert a stable measure type with measure type id = *001*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *SRG*, start date = *2008-01-01*.
- associated additional code type 1: additional code type id = *1*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

Transaction 21:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 23:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2000-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*, description = *Base regulation*.
- description 2: language id = *FR*, description = *Reglement de base*.
- description 3: language id = *NL*, description = *Basisverordening*.

Transaction 24:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *SRG*, approved flag = *1*.

Transaction 25:

- Message 1: Insert a stable country with country id = *IQ*, start date = *1900-01-01*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group*.
 - description 2: language id = *FR*, description = *French Description of country group*.
 - description 3: language id = *NL*, description = *Dutch Description of country group*.

Transaction 26:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *Z*, export refund code = *099*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *1*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
 - indent 1: indent sid = *1*, start date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

indent number = 1.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Reply to transaction 23: Status ok.

Reply to transaction 24: Status ok.

Reply to transaction 25: Status ok.

Reply to transaction 26: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

2.5.2. Test case **dm_ref_acn_insert**: Insert of an Additional code

Message: **dm_ref_acn_insert_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CI*, footnote id = *015*, start date = *2007-01-01*.
 - associated footnote 2: footnote type id = *CI*, footnote id = *016*, start date = *2007-01-01*.

Transaction 2:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = *=*, constant = *1*.

Transaction 3:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *2*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 3: language id = *NL*,
description = *Dutch description*.

Transaction 4:

- Message 1: Insert an unstable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *3*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *ENI*,
description = *English description*.
 - description 2: language id = *FRA*,
description = *French description*.
 - description 3: language id = *nl*,
description = *Dutch description*.

Transaction 5:

- Message 1: Insert an unstable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *4*, end date = *2007-12-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 6:

- Message 1: Insert an unstable additional code with additional code type id = *9*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *5*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 7:

- Message 1: Insert an unstable additional code with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code type id = *I*, additional code id = *111*,
start date = *2008-02-02*, additional code sid = *6*, end date
= *2009-05-01*:

- description period 1: start date = *2008-02-02*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 8:

- Message 1: Insert an unstable additional code with
additional code type id = *Z*, additional code id = *114*,
start date = *2008-02-01*, additional code sid = *7*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 9:

- Message 1: Insert an unstable additional code with
additional code type id = *M*, additional code id = *115*,
start date = *2008-02-01*, additional code sid = *8*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 10:

- Message 1: Insert an unstable additional code with
additional code type id = *I*, additional code id = *117*,
start date = *2008-02-01*, additional code sid = *9*, end date
= *2009-02-01*:
 - description period 1: start date = *2009-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*,
description = *English description*.
- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.

Transaction 11:

- Message 1: Insert an unstable additional code with additional code type id = *1*, additional code id = *118*, start date = *2008-02-01*, additional code sid = *11*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - description period 2: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 12:

- Message 1: Insert an unstable additional code with additional code type id = *1*, additional code id = *120*, start date = *2008-02-01*, additional code sid = *12*, end date = *2009-02-01*:
 - description period 1: start date = *2008-05-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 13:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 121, start date = 2008-02-01, additional code sid = 14, end date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 2: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 14:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 122, start date = 2008-02-01, additional code sid = 15, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CI, footnote id = 001, start date = 2007-01-01.

Transaction 15:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 123, start date = 2008-02-01, additional code sid = 16, end date = 2009-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2008-02-01:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

- associated footnote 1: footnote type id = *FTA*, footnote id = *015*, start date = 2008-03-01, end date = 2010-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on logical.key : VR-ACN-1: The combination of additional code type + additional code ID + start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-ACN-5: The referenced additional code type must exist.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

any other additional code with the same additional code type + additional code ID.

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-ACN-6: The referenced additional code type must not have "ERN" as application code.

Reply to transaction 9:

- Message 1, on additional.code.type.ref : VR-ACN-7: The referenced additional code type must not have "Meursing" as application code.

Reply to transaction 10:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

Reply to transaction 11:

- Message 1, on start.date : VR-ACN-21: No two associated description periods for the same additional code may have the same start date.

Reply to transaction 12:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

Reply to transaction 13:

- Message 1, on start.date : VR-ACN-21: No two associated description periods for the same additional code may have the same start date.

Reply to transaction 14:

- Message 1, on footnote.ref : VR-ACN-26: The footnotes that are referenced must exist.

Reply to transaction 15:

- Message 1, on footnote.ref : VR-ACN-30: The referenced footnote must have a footnote type with application type = "Additional code".

Message: dm_ref_acn_insert_02.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 21, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 007, start date = 2008-02-01, end date = 2009-02-01.

Transaction 2:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 21.

Transaction 3:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN1, description = *English description*.
 - description 2: language id = FRA,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *French description*.

- description 3: language id = *nl*,
description = *Dutch description*.

Transaction 5:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *2*, end date = *2007-12-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 6:

- Message 1: Insert a stable additional code with additional code type id = *9*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *2*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 7:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-02*, additional code sid = *2*, end date = *2009-05-01*:
 - description period 1: start date = *2008-02-02*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Insert a stable additional code with additional code type id = Z, additional code id = 114, start date = 2008-02-01, additional code sid = 2:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 9:

- Message 1: Insert a stable additional code with additional code type id = M, additional code id = 115, start date = 2008-02-01, additional code sid = 2:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 10:

- Message 1: Insert a stable additional code with additional code type id = I, additional code id = 116, start date = 2006-02-01, additional code sid = 2, end date = 2010-02-01:
 - description period 1: start date = 2006-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 11:

- Message 1: Insert a stable additional code with additional code type id = I, additional code id = 117, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2009-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 12:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 118, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 2: start date = 2009-02-02:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 13:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 118, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 2: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 14:

- Message 1: Insert a stable additional code with additional code type id = C, additional code id = 119, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 15:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 120, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CI, footnote id = 015, start date = 2008-02-01, end date = 2009-02-01.

Transaction 16:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 122, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

01:

- description period 1: start date = 2008-05-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
- description period 2: start date = 2009-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 17:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 121, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 2: start date = 2009-03-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 3: start date = 2009-05-01:
 - description 1: language id = EN,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *English description*.

- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.

Transaction 18:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 122, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - description period 2: start date = 2009-01-01:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - description period 3: start date = 2008-02-01:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 19:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 123, start date = 2008-02-01, additional code sid = 2:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *English description*.

- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.

- associated footnote 1: footnote type id = *CG*,
footnote id = *999*, start date = *2008-02-15*.

Transaction 20:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *124*, start date = *2008-02-01*, additional code sid = *2*, end date = *2010-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*,
footnote id = *008*, start date = *2008-03-01*, end date = *2010-01-01*.

Transaction 21:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *125*, start date = *2008-02-01*, additional code sid = *2*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*,
footnote id = *008*, start date = *2008-03-01*, end date = *2008-09-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- associated footnote 2: footnote type id = *CG*, footnote id = *008*, start date = *2008-05-01*, end date = *2008-08-01*.

Transaction 22:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *126*, start date = *2008-02-01*, additional code sid = *2*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *FTS*, footnote id = *016*, start date = *2008-02-01*.

Transaction 23:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, start date = *2008-01-01*, additional code sid = *2*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *008*, start date = *2008-01-01*, end date = *2007-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Reply to transaction 3:

- Message 1, on logical.key : VR-ACN-1: The combination of additional code type + additional code ID + start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-ACN-5: The referenced additional code type must exist.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-ACN-6: The referenced additional code type must not have "ERN" as application code.

Reply to transaction 9:

- Message 1, on additional.code.type.ref : VR-ACN-7: The referenced additional code type must not have "Meursing" as application code.

Reply to transaction 10:

- Message 1, on additional.code.type.ref : VR-ACN-10: The validity period of the additional code must be enclosed by the validity period of the corresponding additional code type.

Reply to transaction 11:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code is mandatory.

Reply to transaction 12:

- Message 1, on description.period[2] : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 13:

- Message 1, on start.date : VR-ACN-21: No two associated description periods for the same additional code may have the same start date.

Reply to transaction 14:

- Message 1, on additional.code.type.ref : VR-ACN-8: Additional code type must be stable when the additional code is stable.

Reply to transaction 15:

- Message 1, on footnote.ref : VR-ACN-9: Associated footnotes must be stable when the additional code is stable.

Reply to transaction 16:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

Reply to transaction 17:

- Message 1, on description.period[2] : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.
- Message 1, on description.period[3] : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 18:

- Message 1, on start.date : VR-ACN-21: No two associated description periods for the same additional code may have the same start date.

Reply to transaction 19:

- Message 1, on footnote.ref : VR-ACN-26: The footnotes that are referenced must exist.

Reply to transaction 20:

- Message 1, on additional.code.ref : OK.

Reply to transaction 21:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.

Reply to transaction 22:

- Message 1, on footnote.ref : VR-ACN-30: The referenced footnote must have a footnote type with application type = "Additional code".

Reply to transaction 23:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Message: **dm_ref_acn_insert_03.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 127, start date = 2008-02-01, additional code sid = 1:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = NE, footnote id = 127, start date = 2008-02-01.

Transaction 2:

- Message 1: Insert an unstable additional code with additional code type id = C, additional code id = 127, start date = 2008-02-01, additional code sid = 2:
 - description period 1: start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*,
description = *English description*.
- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.
- associated footnote 1: footnote type id = *CI*,
footnote id = *015*, start date = *2008-02-01*,
associated footnote sid = *1*.
- associated footnote 2: footnote type id = *CI*,
footnote id = *015*, start date = *2008-02-01*,
associated footnote sid = *2*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on footnote.ref : VR-ACN-26: The footnotes that are referenced must exist.

Reply to transaction 2:

- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Message: **dm_ref_acn_insert_04.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, additional code sid = *1*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *French description*.

- description 3: language id = *NL*,
description = *Dutch description*.

Transaction 2:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, start date = *2008-02-01*, additional code sid = *2*:
 - description period 1:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 3:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, start date = *2008-02-01*, additional code sid = *3*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*,
footnote id = *008*, associated footnote sid = *1*.

Transaction 4:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, start date = *2009-01-01*, additional code sid = *4*:
 - description period 1: start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *Dutch description*.

- associated footnote 1: footnote type id = *CG*, footnote id = *008*, start date = *2008-01-01*, associated footnote sid = *1*.

Transaction 5:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *129*, start date = *2008-02-01*, additional code sid = *5*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *008*, start date = *2008-02-01*, associated footnote sid = *1*.
 - associated footnote 2: footnote type id = *CG*, footnote id = *008*, start date = *2008-02-01*, associated footnote sid = *2*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 2:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 3:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 4:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.

Reply to transaction 5:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

2.5.3. Test case dm_ref_acn_di_insert: Insert of an Additional Code description

Message: dm_ref_acn_di_insert_01.xml

Precondition : Make sure the *init_ref_additional_code_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*, description = *English description*.
- description 2: language id = *FR*, description = *French description*.
- description 3: language id = *NL*, description = *Dutch description*.

Transaction 2:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *2*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 3:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *843*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
 - description 3: language id = *NL*, description = *Dutch*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description.

Transaction 4:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *FR*, description = *Second French description.*
 - description 4: language id = *NL*, description = *Dutch description.*

Transaction 5:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*
 - description 4: language id = *XX*, description = *Description in XX language.*

Transaction 6:

- Message 1: Insert an unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 7:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description:.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 8:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg. description.*
 - description 2: language id = FR, description = *French kg description.*
 - description 3: language id = NL, description = *Dutch kg; description.*

Transaction 9:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg: description.*
 - description 2: language id = FR, description = *French kg, description.*
 - description 3: language id = NL, description = *Dutch description.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Message: **dm_ref_acn_di_insert_02.xml**

Precondition Make sure the *init_ref_additional_code_setup.xml* message has been
:
successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 2:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *"French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 3:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 937, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 2: language id = *FR*, description = *Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy z.*
- description 3: language id = *NL*, description = *Dutch description.*

Transaction 4:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *FR*, description = *Second French description.*
 - description 4: language id = *NL*, description = *Dutch description.*

Transaction 5:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description.

- description 4: language id = *XX*, description = *Description in XX language.*

Transaction 6:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*

Transaction 7:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description:*.
 - description 3: language id = *NL*, description = *Dutch description.*

Transaction 8:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English kg. description.*
 - description 2: language id = *FR*, description = *French kg description.*
 - description 3: language id = *NL*, description = *Dutch kg; description.*

Transaction 9:

- Message 1: Insert a stable additional code with additional code type

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg: description.*
 - description 2: language id = FR, description = *French kg, description.*
 - description 3: language id = NL, description = *Dutch description.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ' '.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ' '.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ' '.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ' '.

Reply to transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

2.5.4. Test case **dm_ref_acn_update**: Update of an Additional Code

Message: dm_ref_acn_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-10-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *Dutch description*.

Transaction 2:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2009-11-01, additional code sid = 2, end date = 2010-01-01:
 - description period 1: start date = 2009-11-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 3:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 113, start date = 2008-02-01, additional code sid = 4:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 5:

- Message 1: Insert an unstable measure with measure type id = 001, geographical area id = IQ, goods nomenclature id = 0100000000, productline suffix = 80, additional

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

code type id = 1, additional code id = 113, order number = 094002, reduction indicator = 1, start date = 2008-02-01, regulation id = R0801010, regulation role type = 1.

Transaction 6:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 115, start date = 2008-02-01, additional code sid = 5, end date = 2009-10-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 7:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 115, start date = 2009-11-01, additional code sid = 6, end date = 2010-01-01:
 - description period 1: start date = 2009-11-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 8:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 116, start date = 2008-02-01, additional code sid = 7, end date = 2009-10-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 116, start date = 2009-11-01, additional code sid = 8, end date = 2010-01-01:
 - description period 1: start date = 2009-11-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 10:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 117, start date = 2008-02-01, additional code sid = 9:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 11:

- Message 1: Insert a stable measure with measure type id = 001, geographical area id = IQ, goods nomenclature id = 010000000, productline suffix = 80, additional code type id = 1, additional code id = 117, order number = 094002, start date = 2008-02-01, regulation id = R0801010, regulation role type = 1.

Transaction 12:

- Message 1: Insert an unstable additional code with additional code type id = C, additional code id = 118, start date = 2008-02-01, additional code sid = 10:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *Dutch description*.

Transaction 13:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 121, start date = 2008-02-01, additional code sid = 11, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 2: start date = 2008-05-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 3: start date = 2008-05-02:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 4: start date = 2008-09-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Message: **dm_ref_acn_update_01.xml**

Precondition: Make sure the *dm_ref_acn_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CI, footnote id = 015, start date = 2007-01-01.
 - associated footnote 2: footnote type id = CI, footnote id = 016, start date = 2007-01-01.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 2:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 444, start date = 2008-02-01, additional code sid = 20, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2007-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 5:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *Dutch description*.

Transaction 6:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-12-05:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on additional.code.ref : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status "unstable".

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.

Message: dm_ref_acn_update_02.xml

Precondition: Make sure the dm_ref_acn_update_setup_01.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 007, start date = 2008-02-01, end date = 2009-02-01.
 - associated footnote 2: footnote type id = CG, footnote id = 008, start date = 2008-02-01, end date = 2009-02-01.

Transaction 2:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 444, start date = 2008-02-01, additional code sid = 20, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Update the stable additional code with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code type id = 1, additional code id = 115,
start date = 2008-02-01, additional code sid = 5, end date
= 2007-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 5:

- Message 1: Update the stable additional code with
additional code type id = C, additional code id = 118,
start date = 2008-02-01, additional code sid = 10, end
date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 6:

- Message 1: Update the stable additional code with
additional code type id = 1, additional code id = 115,
start date = 2008-02-01, additional code sid = 5, end date
= 2009-12-05:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 7:

- Message 1: Update the stable additional code with
additional code type id = 1, additional code id = 115,
start date = 2007-02-01, additional code sid = 5, end date
= 2010-05-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2007-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 8:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 113, start date = 2008-02-01, additional code sid = 4, end date = 2008-05-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 9:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 115, start date = 2008-02-01, additional code sid = 5, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CI, footnote id = 015, start date = 2008-02-01, end date = 2009-02-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 5:

- Message 1, on additional.code.type.ref : VR-ACN-8: Additional code type must be stable when the additional code is stable.

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.

Reply to transaction 7:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.
- Message 1, on additional.code.type.ref : VR-ACN-10: The validity period of the additional code must be enclosed by the validity period of the corresponding additional code type.

Reply to transaction 8:

- Message 1, on additional.code.ref : OK.

Reply to transaction 9:

- Message 1, on footnote.ref : VR-ACN-9: Associated footnotes must be stable when the additional code is stable.

Message: dm_ref_acn_update_03.xml

Precondition: Make sure the dm_ref_acn_update_setup_01.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 116, start date = 2008-02-01, additional code sid = 7, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 007, start date = 2008-02-01, end date = 2009-02-01.
 - associated footnote 2: footnote type id = CG, footnote id = 008, start date = 2008-02-01, end date = 2009-02-01.

Transaction 2:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 444, start date = 2008-02-01, additional code sid = 20, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Update the stable additional code with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code type id = 1, additional code id = 116,
start date = 2008-02-01, additional code sid = 7, end date
= 2007-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 5:

- Message 1: Update the stable additional code with
additional code type id = 1, additional code id = 116,
start date = 2008-02-01, additional code sid = 7, end date
= 2011-01-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 6:

- Message 1: Update the stable additional code with
additional code type id = 1, additional code id = 116,
start date = 2007-02-01, additional code sid = 7, end date
= 2010-05-01:
 - description period 1: start date = 2007-02-01:
 - description 1: language id = EN,
description = *English description*.
 - description 2: language id = FR,
description = *French description*.
 - description 3: language id = NL,
description = *Dutch description*.

Transaction 7:

- Message 1: Update the stable additional code with
additional code type id = 1, additional code id = 117,
start date = 2008-02-01, additional code sid = 9, end date
= 2008-05-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 8:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 116, start date = 2008-02-01, additional code sid = 7, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CI, footnote id = 015, start date = 2008-03-01, end date = 2009-01-01.

Transaction 9:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 121, start date = 2008-02-01, additional code sid = 11, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - description period 2: start date = 2008-05-01:
 - description 1: language id = EN, description = *English description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 2: language id = *FR*, description = *French description*.
- description 3: language id = *NL*, description = *Dutch description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on additional.code.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 5:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.

Reply to transaction 6:

- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.
- Message 1, on additional.code.type.ref : VR-ACN-10: The validity period of the additional code must be enclosed by the validity period of the corresponding additional code type.

Reply to transaction 7:

- Message 1, on additional.code.ref : VR-ACN-13: The validity period of the additional code element must span the validity period of the referencing stable measures.

Reply to transaction 8:

- Message 1, on footnote.ref : VR-ACN-9: Associated footnotes must be stable when the additional code is

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

stable.

Reply to transaction 9:

- Message 1, on additional.code.ref : OK.

Message: **dm_ref_acn_update_04.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_ref_acn_update_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *NE*, footnote id = *777*, start date = *2008-02-01*, end date = *2009-02-01*.

Transaction 2:

- Message 1: Update the unstable additional code with additional code type id = *C*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 3:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 1, end date = 2009-02-01.
 - associated footnote 2: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 2, end date = 2008-12-01.

Transaction 4:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 17, end date = 2009-02-01.

Transaction 5:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
- associated footnote 1: footnote type id = CG, footnote id = 007, start date = 2008-02-01, associated footnote sid = 17, end date = 2009-02-01.

Transaction 6:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2009-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 17, end date = 2009-02-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on footnote.ref : VR-ACN-26: The footnotes that are referenced must exist.
- Message 1, on footnote.ref : VR-ACN-26: The footnotes that are referenced must exist.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on additional.code.type.ref : VR-ACN-2: The additional code type cannot be changed.

Reply to transaction 3:

- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Reply to transaction 4:

- Message 1, on additional.code.ref : OK.

Reply to transaction 5:

- Message 1, on footnote.ref : VR-ACN-31: In a footnote association, the footnote code cannot be updated.

Reply to transaction 6:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

Message: **dm_ref_acn_update_05.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_ref_acn_update_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, additional code sid = 1:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Update the stable additional code with additional code type id = Z, additional code id = 116, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 3:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, associated footnote sid = 1.

Transaction 4:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 17, end date = 2009-02-01.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 5:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *007*, start date = *2008-02-01*, associated footnote sid = *17*, end date = *2009-02-01*.

Transaction 6:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *007*, start date = *2006-01-01*, associated footnote sid = *18*.

Transaction 7:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *1*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *English description*.

- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.
- associated footnote 1: footnote type id = *CG*,
footnote id = *008*, start date = *2008-02-01*,
associated footnote sid = *17*, end date = *2009-02-01*.
- associated footnote 2: footnote type id = *CG*,
footnote id = *008*, start date = *2008-07-03*,
associated footnote sid = *18*, end date = *2009-01-01*.

Transaction 8:

- Message 1: Update the stable additional code with
additional code type id = *1*, additional code id = *113*,
start date = *2008-02-01*, additional code sid = *1*, end date
= *2009-02-01*:
 - description period 1: start date = *2008-12-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 9:

- Message 1: Update the stable additional code with
additional code type id = *1*, additional code id = *111*,
start date = *2008-02-01*, additional code sid = *1*, end date
= *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

footnote id = 008, start date = 2008-02-01,
associated footnote sid = 17, end date = 2009-02-01.

- associated footnote 2: footnote type id = CG,
footnote id = 008, start date = 2008-02-01,
associated footnote sid = 18, end date = 2009-01-01.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 2:

- Message 1, on additional.code.type.ref : VR-ACN-2: The additional code type cannot be changed.

Reply to transaction 3:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on start.date : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-28: The period of association with a footnote must be within (inclusive) the validity period of the footnote.
- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

information tagged as mandatory in the data elements has to be provided.

Reply to transaction 4:

- Message 1, on additional.code.ref : OK.

Reply to transaction 5:

- Message 1, on footnote.ref : VR-ACN-31: In a footnote association, the footnote code cannot be updated.

Reply to transaction 6:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on start.date : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.

Reply to transaction 7:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.

Reply to transaction 8:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.
- Message 1, on additional.code.id : VR-ACN-3: The additional code ID cannot be changed.
- Message 1, on additional.code.type.ref : VR-ACN-4: The validity period of the additional code must not overlap any other additional code with the same additional code type + additional code ID.

Reply to transaction 9:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-ACN-29: If the same

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.

- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Message: dm_ref_acn_update_06.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, dm_ref_acn_update_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, additional code sid = 3:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = English description.
 - description 2: language id = FR, description = French description.
 - description 3: language id = NL, description = Dutch description.

Transaction 2:

- Message 1: Update the stable additional code with additional code type id = Z, additional code id = 119, start date = 2008-02-01, additional code sid = 3, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = English description.
 - description 2: language id = FR, description = French description.
 - description 3: language id = NL, description = Dutch description.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 007, associated footnote sid = 21.

Transaction 4:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2008-02-01, associated footnote sid = 17.

Transaction 5:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

description = *Dutch description*.

- associated footnote 1: footnote type id = *CG*, footnote id = *007*, start date = *2008-02-01*, associated footnote sid = *17*.

Transaction 6:

- Message 1: Update the stable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *3*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *007*, start date = *2006-01-01*, associated footnote sid = *18*.

Transaction 7:

- Message 1: Update the stable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *3*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *CG*, footnote id = *008*, start date = *2008-02-01*, associated footnote sid = *17*, end date = *2009-02-01*.
 - associated footnote 2: footnote type id = *CG*, footnote id = *008*, start date = *2008-07-03*, associated footnote sid = *18*, end date = *2009-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 8:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3:
 - description period 1: start date = 2008-12-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG, footnote id = 008, start date = 2009-01-01, associated footnote sid = 17.

Transaction 9:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 117, start date = 2008-02-01, additional code sid = 9:
 - description period 1: start date = 2009-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 10:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 3:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.
 - associated footnote 1: footnote type id = CG,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

footnote id = 008, start date = 2008-02-01,
associated footnote sid = 17, end date = 2009-02-01.

- associated footnote 2: footnote type id = CG,
footnote id = 008, start date = 2008-02-01,
associated footnote sid = 18, end date = 2009-01-01.

**Expected
output:**

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.
- Message 1, on description.period : VR-ACN-20: The start date of the description period must be enclosed by the validity period of the additional code.

Reply to transaction 2:

- Message 1, on additional.code.type.ref : VR-ACN-2: The additional code type cannot be changed.

Reply to transaction 3:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on start.date : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1, on additional.code.ref : OK.

Reply to transaction 5:

- Message 1, on footnote.ref : VR-ACN-31: In a footnote association, the footnote code cannot be updated.

Reply to transaction 6:

- Message 1, on logical.key : VR-ACN-27: The period of association with a footnote must be within (inclusive) the validity period of the additional code.
- Message 1, on logical.key : VR-ACN-28: The period of association with a footnote must be within (inclusive) the validity period of the footnote.

Reply to transaction 7:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.

Reply to transaction 8:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.
- Message 1, on footnote.ref : VR-ACN-32: In a footnote association, the association start date cannot be updated.

Reply to transaction 9:

- Message 1, on description.period.list : VR-ACN-19: A description period having the same start date as the additional code is mandatory.

Reply to transaction 10:

- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-ACN-29: If the same footnote is associated more than once with the same additional code then there cannot be any overlap in their association periods.
- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

2.5.5. Test case **dm_ref_acn_delete**: Deletion of an Additional Code

Message: **dm_ref_acn_delete_setup_01.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-01-01, additional code sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 112, start date = 2009-11-01, additional code sid = 2, end date = 2010-01-01:
 - description period 1: start date = 2009-11-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 3:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 113, start date = 2009-11-01, additional code sid = 3, end date = 2010-01-01:
 - description period 1: start date = 2009-11-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*, description = *English description*.
- description 2: language id = *FR*, description = *French description*.
- description 3: language id = *NL*, description = *Dutch description*.

Transaction 4:

- Message 1: Insert a stable additional code with additional code type id = *1*, additional code id = *114*, start date = *2008-01-01*, additional code sid = *4*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 5:

- Message 1: Insert a stable measure with measure type id = *001*, geographical area id = *IQ*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *1*, additional code id = *114*, order number = *094002*, start date = *2008-01-01*, regulation id = *R0801010*, regulation role type = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Message: **dm_ref_acn_delete_01.xml**

Precondition: Make sure the message *dm_ref_acn_delete_setup_01.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Transaction 1:

- Message 1: Delete the additional code with additional code sid = 1.

Transaction 2:

- Message 1: Delete the additional code with additional code sid = 2.

Transaction 3:

- Message 1: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 1.
- Message 2: Request the additional code with query space field = *ADDITIONAL CODE.ADDITIONAL CODE REF.Additional code sid*, operator = =, constant = 2.

Transaction 4:

- Message 1: Delete the additional code with additional code sid = 1.

Transaction 5:

- Message 1: Delete the additional code with additional code sid = 2.

Transaction 6:

- Message 1: Delete the additional code with additional code sid = 3.

Transaction 7:

- Message 1: Delete the additional code with additional code sid = 4.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on additional.code.sid : OK.

Reply to transaction 2:

- Message 1, on additional.code.sid : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on additional.code.sid : VR_VI_3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on additional.code.sid : VR_VI_3: Data to be

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

deleted must exist.

Reply to transaction 6:

- Message 1, on additional.code.sid : OK.

Reply to transaction 7:

- Message 1, on additional.code.sid : VR-ACN-17: An additional code cannot be deleted if it's used in an additional code nomenclature measure.

2.5.6. Test case dm_ref_acn_di_update: Update of Additional Code description

Message: dm_ref_acn_di_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_additional_code_setup.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Insert a stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 3: language id = *NL*, description = *Dutch description*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Message: **dm_ref_acn_di_update_01.xml**

Precondition
: Make sure the *init_ref_additional_code_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *III*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 2:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *III*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 3:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *III*, start date = *2008-02-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code sid = 1, end date = 2009-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy z.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 4:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = FR, description = *Second French description.*
 - description 4: language id = NL, description = *Dutch description.*

Transaction 5:

- Message 1: Update the unstable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 1: language id = *EN*, description = *English description*.
- description 2: language id = *FR*, description = *French description*.
- description 3: language id = *NL*, description = *Dutch description*.
- description 4: language id = *XX*, description = *Description in XX language*.

Transaction 6:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 7:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 8:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English kg. description*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

French kg description.

- description 3: language id = *NL*, description = *Dutch kg; description.*

Transaction 9:

- Message 1: Update the unstable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English kg; description.*
 - description 2: language id = *FR*, description = *French kg, description.*
 - description 3: language id = *NL*, description = *Dutch description.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for)

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point '|'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Message: **dm_ref_acn_di_update_02.xml**

Precondition : Make sure the *init_ref_additional_code_setup.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = English description.
 - description 2: language id = FR, description = - French description.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description 3: language id = *NL*, description = *Dutch description*.

Transaction 2:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *"French description"*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 3:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*, additional code sid = *I*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy z.*
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 4:

- Message 1: Update the stable additional code with additional code type id = *I*, additional code id = *111*, start date = *2008-02-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

additional code sid = 1, end date = 2009-02-01:

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = FR, description = *Second French description.*
 - description 4: language id = NL, description = *Dutch description.*

Transaction 5:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*
 - description 4: language id = XX, description = *Description in XX language.*

Transaction 6:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 7:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description:.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 8:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg. description.*
 - description 2: language id = FR, description = *French kg description.*
 - description 3: language id = NL, description = *Dutch kg; description.*

Transaction 9:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 111, start date = 2008-02-01, additional code sid = 1, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg: description.*
 - description 2: language id = FR, description = *French kg, description.*
 - description 3: language id = NL, description = *Dutch description.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent '!'

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

Message: **dm_ref_acn_di_update_03.xml**

Precondition Make sure the *init_ref_additional_code_setup.xml* message has been
: successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 2:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *"French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 3:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a multilingual description which contains*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

more than 500

*characters:0123456789abcdefghijklmnopqrstuvwxy
zTest with a multilingual description which contains
more than 500*

*characters:0123456789abcdefghijklmnopqrstuvwxy
zTest with a multilingual description which contains
more than 500*

*characters:0123456789abcdefghijklmnopqrstuvwxy
zTest with a multilingual description which contains
more than 500*

*characters:0123456789abcdefghijklmnopqrstuvwxy
z.*

- description 3: language id = *NL*, description = *Dutch description.*

Transaction 4:

- Message 1: Update the stable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *2*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *FR*, description = *Second French description.*
 - description 4: language id = *NL*, description = *Dutch description.*

Transaction 5:

- Message 1: Update the stable additional code with additional code type id = *1*, additional code id = *112*, start date = *2008-02-01*, additional code sid = *2*, end date = *2009-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*
 - description 4: language id = *XX*, description = *Description in XX language.*

Transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 7:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

Transaction 8:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *English kg. description.*
 - description 2: language id = FR, description = *French kg description.*
 - description 3: language id = NL, description = *Dutch kg; description.*

Transaction 9:

- Message 1: Update the stable additional code with additional code type id = 1, additional code id = 112, start date = 2008-02-01, additional code sid = 2, end date = 2009-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
ADDITIONAL CODE	

English kg: description.

- description 2: language id = *FR*, description = *French kg, description.*
- description 3: language id = *NL*, description = *Dutch description.*

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text cannot start with an indent ' '.

Reply to transaction 2:

- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.

Reply to transaction 3:

- Message 1 : OK

Reply to transaction 4:

- Message 1, on description : VR-DI-7: At a given moment, there is at most one description in a given language.

Reply to transaction 5:

- Message 1, on language.id : VR-DI-8: A description language must refer to an existing stable language.

Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

- Message 1, on description : VR-DI-10: Description text cannot end with double point ':'.

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

2.6. Agricultural duty expression

2.6.1. Test case init_ref_ade_setup: Insertion of Agricultural duty expression reference data

Message: **init_ref_agricultural_duty_expression_setup.xml**

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr*.
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl*.
 - description 2: language id = *FR*, description = *Description francaise nl*.

Transaction 2:

- Message 1: Insert a stable measure type series with

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

measure type series id = AA, start date = 2000-01-01:

- description 1: language id = EN, description = *English Description.*
- description 2: language id = FR, description = *French Description.*
- description 3: language id = NL, description = *Dutch Description.*

measure type combination = 0.

Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = AGR, start date = 1980-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

Transaction 3:

- Message 1: Insert a stable measure type with measure type id = 080000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 0, order number capture code = 2, accepted via input bridge = 0, priority code = 1.

Transaction 5:

- Message 1: Insert an unstable measure type with measure type id = 030000, start date = 2008-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

English Description.

- description 2: language id = *FR*, description = *French Description.*
- description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2002-01-01*, end date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

Transaction 6:

- Message 1: Insert a stable measure type with measure type id = *030001*, start date = *2008-01-01*, end date = *2010-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2008-01-01*, end date = *2009-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

Transaction 7:

- Message 1: Insert a stable duty expression with duty expression id = *11*, start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Insert a stable duty expression with duty expression id = 33, start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description of duty expression 33.*
 - description 2: language id = FR, description = *French Description of duty expression 33.*
 - description 3: language id = NL, description = *Dutch Description of duty expression 33.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 9:

- Message 1: Insert a stable duty expression with duty expression id = 44, start date = 2007-01-01, end date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 10:

- Message 1: Insert an unstable duty expression with duty expression id = 45, start date = 2007-01-01, end date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

applicability code = 0, monetary unit applicability code = 0.

Transaction 11:

- Message 1: Insert a stable duty expression with duty expression id = 34, start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 12:

- Message 1: Insert a stable country with country id = FR, start date = 1900-01-01, country sid = 1, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description of BE.*
 - description 2: language id = FR, description = *French Description of BE.*
 - description 3: language id = NL, description = *Dutch Description of BE.*

Transaction 13:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2001-01-01, official journal number = 1, official journal page = 1.

Transaction 14:

- Message 1: Insert a stable regulation role type with regulation role type id = 1, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of unit qualifier.*
 - description 2: language id = FR, description = *French Description of unit qualifier.*
 - description 3: language id = NL, description = *Dutch Description of unit qualifier.*

Transaction 15:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable measure type with measure type id = *012000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *2*, accepted via input bridge = *0*, priority code = *1*.

Transaction 17:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of GN 0101110000*.
 - description 2: language id = *FR*, description = *French Description of GN 0101110000*.
 - description 3: language id = *NL*, description = *Dutch Description of GN 0101110000*.
 - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

statistical indicator = *0*.

Expected

The message is composed of transactions replying to the original transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

output:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

2.6.2. Test case dm_ref_ade_insert: Insertion of a agricultural duty expression

Message: dm_ref_ade_insert_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_duty_expression_setup.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measure type with measure type id = 380000, start date = 2000-01-01:
 - description 1: language id = EN, description = English Description.
 - description 2: language id = FR, description = French Description.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2002-01-01*.

trade movement code = *0*, measure explosion level = *6*,
measure component applicable code = *2*, order number
capture code = *1*, accepted via input bridge = *0*, priority
code = *1*.

Transaction 2:

- Message 1: Insert a stable measure type with measure type id = *390000*, start date = *2000-01-01*:

- description 1: language id = *EN*, description = *English Description*.

- description 2: language id = *FR*, description = *French Description*.

- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2002-01-01*.

trade movement code = *0*, measure explosion level = *6*,
measure component applicable code = *2*, order number
capture code = *1*, accepted via input bridge = *0*, priority
code = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0810213*, published date = *2001-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable duty expression with duty expression id = *36*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English description of the duty expression 36*.

- description 2: language id = *FR*, description = *French description of the duty expression 36*.

- description 3: language id = *NL*, description = *Dutch Description of the duty expression 36*.

duty amount applicability code = *0*, measurement unit
applicability code = *0*, monetary unit applicability code =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

0.

Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0810213*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.
- Message 2: Insert a stable country with country id = *BE*, start date = *1900-01-01*, country sid = *2*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of FR*.
 - description 2: language id = *FR*, description = *French Description of FR*.
 - description 3: language id = *NL*, description = *Dutch Description of FR*.
- Message 3: Insert a stable measure with measure type id = *080000*, geographical area id = *BE*, start date = *1900-01-01*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *1007*, regulation id = *R0810213*, regulation role type = *1*:
 - measure component 1: duty expression id = *36*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Message:

dm_ref_ade_insert_01.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_ref_ade_insert_setup_01.xml* message should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2008-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = N.

Transaction 2:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 33.

Transaction 3:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2008-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = N.

Transaction 4:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = $\hat{A}\mu P$, start date = 2008/25-01, end date = 2009/01, measure type id = 012, reduction type = N.

Transaction 5:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 99, start date = 2008-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = N.

Transaction 6:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2008-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = V.

Transaction 7:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 44, start date = 2009-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = N.

Transaction 8:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 44, start date = 2008-01-01, end date = 2009-01-01, measure type id = 001000, reduction type = N.

Transaction 9:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 44, start date = 2008-01-01, end date = 2009-01-01, measure type id = 030000, reduction type = N.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on duty.expression.id : VR-ADE-1: The duty expression must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on duty.expression.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-3: The duty expression must exist.

Reply to transaction 6:

- Message 1, on reduction.type : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 7:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 8:

- Message 1, on measure.type.ref : VR-ADE-4: The measure type must exist.

Reply to transaction 9:

- Message 1 : OK.

Message:

dm_ref_ade_insert_02.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_ref_ade_insert_setup_01.xml* message should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Content: The message is composed of the following transactions:

Transaction 1: Transaction 1:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 33, start date = 2008-05-01, end date = 2009-01-01, measure type id = 390000, reduction type = N.

Transaction 2:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 33.

Transaction 3:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 33, start date = 2008-05-01, end date = 2009-01-01, measure type id = 390000, reduction type = N.

Transaction 4:

- Message 1: Insert a stable agricultural duty expression with duty expression id = $\hat{A}\mu P$, start date = 2008/25-01, end date = 2009/01, measure type id = I45, reduction type = F.

Transaction 5:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 99, start date = 2008-05-01, end date = 2009-01-01, measure type id = 390000, reduction type = N.

Transaction 6:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2008-05-01, end date = 2009-01-01, measure type id = 390000, reduction type = V.

Transaction 7:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2009-05-01, end date = 2009-01-01, measure type id = 390000, reduction type = N.

Transaction 8:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2008-05-01, end date = 2011-01-01, measure type id = 390000, reduction type = R.

Transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2008-05-01, end date = 2009-01-01, measure type id = 380000, reduction type = N.

Transaction 10:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2008-01-01, end date = 2009-01-01, measure type id = 001000, reduction type = N.

Transaction 11:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 44, start date = 2007-01-01, end date = 2009-01-01, measure type id = 030001, reduction type = N.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on duty.expression.id : VR-ADE-1: The duty expression must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on duty.expression.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on measure.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on reduction.type : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 5:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-3: The duty expression must exist.

Reply to transaction 6:

- Message 1, on reduction.type : ERROR: cvc-

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

enumeration-valid, cvc-type.3.1.3.

Reply to transaction 7:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 8:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-6: The validity period of the duty expression type must span the validity period of the "agricultural duty expression".

Reply to transaction 9:

- Message 1, on measure.type.id : VR-ADE-12: The measure type must be stable when the agricultural duty expression is stable.

Reply to transaction 10:

- Message 1, on measure.type.ref : VR-ADE-4: The measure type must exist.

Reply to transaction 11:

- Message 1, on measure.type.id : VR-ADE-5: The validity period of the "regulation group - measure type link" must span the validity period of the "agricultural duty expressions" with the same measure type and regulation group "AGR".

Message: **dm_ref_ade_insert_03.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_ref_ade_insert_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2008-01-01, end date = 2009-01-01, measure type id = 397080, reduction type = N.

Transaction 2:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 36, start date = 2008-01-01, end date = 2025-01-01, measure type id = 080000, reduction type = N.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on measure.type.ref : VR-ADE-4: The measure type must exist.

Reply to transaction 2:

- Message 1, on duty.expression.id : VR-ADE-18: An agricultural duty expression cannot be inserted for a duty expression used in some measure components.

Message: dm_ref_ade_insert_04.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, dm_ref_ade_insert_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 45, start date = 2008-01-01, end date = 2009-01-01, measure type id = 390000, reduction type = N.

Transaction 2:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 45, measure type id = 390000, reduction type = N.

Transaction 3:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 45, start date = 2008-01-01, end date = 2009-01-01, measure type id = 397080, reduction type = N.

Transaction 4:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 36, start date = 2008-01-01, end date = 2025-01-01, measure type id = 080000, reduction type = N.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1, on duty.expression.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

- Message 1, on measure.type.ref : VR-ADE-4: The measure type must exist.
- Message 1, on duty.expression.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 4:

- Message 1, on duty.expression.id : VR-ADE-18: An agricultural duty expression cannot be inserted for a duty expression used in some measure components.

2.6.3. Test case dm_ref_ade_update: Update of an agricultural duty expression

Message: dm_ref_ade_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_duty_expression_setup.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable duty expression with duty expression id = 21, start date = 2007-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 2:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 3:

- Message 1: Insert a stable duty expression with duty expression id = 22, start date = 2007-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 22, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 5:

- Message 1: Insert a stable duty expression with duty expression id = 23, start date = 2007-01-01, end date = 2008-10-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 6:

- Message 1: Insert an unstable agricultural duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

expression with duty expression id = 23, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 7:

- Message 1: Insert a stable duty expression with duty expression id = 24, start date = 2007-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 8:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 24, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 9:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 11, start date = 2007-01-01, end date = 2008-01-01, measure type id = 030000, reduction type = N.

Transaction 10:

- Message 1: Insert a stable duty expression with duty expression id = 25, start date = 2007-01-01, end date = 2008-10-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 11:

- Message 1: Insert a stable agricultural duty expression

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

with duty expression id = 25, start date = 2008-01-01,
end date = 2008-10-01, measure type id = 030001,
reduction type = R.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Message:

dm_ref_ade_update_setup_02.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, `init_ref_agricultural_duty_expression_setup.xml` messages should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable measure type with measure type id = 080000, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description of 080000.
 - description 2: language id = FR, description = French Description of 080000.
 - description 3: language id = NL, description = Dutch Description of 080000.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

trade movement code = 0, measure explosion level = 6,
measure component applicable code = 2, order number
capture code = 1, accepted via input bridge = 0, priority
code = 1.

Transaction 2:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2008-01-01, measure type id = 080000, reduction type = N.

Transaction 3:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 34, start date = 2008-01-01, measure type id = 080000, reduction type = N.

Transaction 4:

- Message 1: Insert an unstable measure type with measure type id = 580000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of 580000.*
 - description 2: language id = FR, description = *French Description of 580000.*
 - description 3: language id = NL, description = *Dutch Description of 580000.*

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6,
measure component applicable code = 2, order number
capture code = 1, accepted via input bridge = 0, priority
code = 1.

Transaction 5:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 580000, geographical area id = FR, start date = 2000-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 3, end date = 2009-01-01.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = 580000, geographical area id = FR, start date = 2008-01-01, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1.

Transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 45, start date = 2008-01-01, end date = 2009-01-01, measure type id = 080000, reduction type = N.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Message:

dm_ref_ade_update_setup_03.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_duty_expression_setup.xml messages should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = R0800010, published date = 2000-01-01, official journal number = 1, official journal page = 1.
- Message 2: Insert a stable base regulation with regulation id = R0800010, regulation role type = 1, start date = 2008-01-01, end date = 2025-01-01, community code = 1, regulation group id = AGR, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable duty expression with duty expression id = 35, start date = 2008-01-01:
 - description 1: language id = EN, description = English description of the duty expression 35.
 - description 2: language id = FR, description = French description of the duty expression 35.
 - description 3: language id = NL, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Dutch Description of the duty expression 35.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 3:

- Message 1: Insert a stable agricultural duty expression with expression id = 35, start date = 2008-01-01, end date = 2025-01-01, measure type id = 080000, reduction type = N.

Transaction 4:

- Message 1: Insert a stable country with country id = BE, start date = 1900-01-01, country sid = 2, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description of BE.*
 - description 2: language id = FR, description = *French Description of BE.*
 - description 3: language id = NL, description = *Dutch Description of BE.*
- Message 2: Insert a stable measure with measure type id = 080000, geographical area id = BE, start date = 1900-01-01, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, measure sid = 1189, regulation id = R0800010, regulation role type = 1:
 - measure component 1: duty expression id = 35.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Message: dm_ref_ade_update_01.xml

Precondition: Make sure the dm_ref_ade_update_setup_01.xml message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 2:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 21.

Transaction 3:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 99, start date = 2008-01-01, end date = 2008-10-01, measure type id = 012000, reduction type = R.

Transaction 4:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 22, start date = 2008-01-01, end date = 2007-12-01, measure type id = 030001, reduction type = R.

Transaction 5:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 23, start date = 2008-04-01, end date = 2008-10-01, measure type id = 030001, reduction type = N.

Transaction 6:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 23, start date = 1990-01-01, end date = 2009-01-01, measure type id = 030001, reduction type = R.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.duty.expression.ref : VR-VI-1: Data to be updated must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on reduction.type : VR-ADE-15: The reduction type cannot be modified.

Reply to transaction 6:

- Message 1 : OK.

Message: dm_ref_ade_update_02.xml

Precondition: Make sure the dm_ref_ade_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1: Transaction 1:

- Message 1: Update the stable agricultural duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 2:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 21.

Transaction 3:

- Message 1: Update the stable agricultural duty expression with duty expression id = 99, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 4:

- Message 1: Update the stable agricultural duty expression with duty expression id = 22, start date = 2008-01-01, end date = 2007-12-01, measure type id = 030001, reduction type = R.

Transaction 5:

- Message 1: Update the stable agricultural duty expression with duty expression id = 23, start date = 2008-04-01, end date = 2008-10-01, measure type id = 030001, reduction type = N.

Transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Update the stable agricultural duty expression with duty expression id = 23, start date = 2008-04-01, end date = 2008-12-31, measure type id = 030001, reduction type = R.

Transaction 7:

- Message 1: Update the stable agricultural duty expression with duty expression id = 11, start date = 2007-01-01, end date = 2008-01-01, measure type id = 030000, reduction type = N.

Transaction 8:

- Message 1: Update the stable agricultural duty expression with duty expression id = 23, start date = 2007-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.duty.expression.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on reduction.type : VR-ADE-15: The reduction type cannot be modified.

Reply to transaction 6:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-6: The validity period of the duty expression type must span the validity period of the "agricultural duty expression".

Reply to transaction 7:

- Message 1, on measure.type.id : VR-ADE-12: The measure type must be stable when the agricultural duty expression is stable.

Reply to transaction 8:

- Message 1, on measure.type.id : VR-ADE-5: The validity period of the "regulation group - measure type link" must

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

span the validity period of the "agricultural duty expressions" with the same measure type and regulation group "AGR".

Message: **dm_ref_ade_update_03.xml**

Precondition: Make sure the dm_ref_ade_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1: Transaction 1:

- Message 1: Update the stable agricultural duty expression with duty expression id = 24, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Transaction 2:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 24.

Transaction 3:

- Message 1: Update the stable agricultural duty expression with duty expression id = 99, start date = 2008-01-01, end date = 2008-10-01, measure type id = 012000, reduction type = R.

Transaction 4:

- Message 1: Update the stable agricultural duty expression with duty expression id = 24, start date = 2008-01-01, end date = 2007-12-01, measure type id = 030001, reduction type = R.

Transaction 5:

- Message 1: Update the stable agricultural duty expression with duty expression id = 24, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = N.

Transaction 6:

- Message 1: Update the stable agricultural duty expression with duty expression id = 25, start date = 2008-01-01, end date = 2008-12-31, measure type id = 030001, reduction type = R.

Transaction 7:

- Message 1: Update the stable agricultural duty expression with duty expression id = 24, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

2008-01-01, end date = 2010-01-01, measure type id = 030001, reduction type = R.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.duty.expression.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on reduction.type : VR-ADE-15: The reduction type cannot be modified.

Reply to transaction 6:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-6: The validity period of the duty expression type must span the validity period of the "agricultural duty expression".

Reply to transaction 7:

- Message 1, on measure.type.id : VR-ADE-5: The validity period of the "regulation group - measure type link" must span the validity period of the "agricultural duty expressions" with the same measure type and regulation group "AGR".

Message: **dm_ref_ade_update_04.xml**

Precondition: Make sure the dm_ref_ade_update_setup_01.xml, dm_ref_ade_update_setup_02.xml and dm_ref_ade_update_setup_03.xml messages have been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable agricultural duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

expression with duty expression id = 33, start date = 2008-01-01, measure type id = 888000, reduction type = N.

Transaction 2:

- Message 1: Update the unstable agricultural duty expression with duty expression id = 34, start date = 2008-01-01, measure type id = 080000, reduction type = N.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on measure.type.id : VR-ADE-14: The measure type cannot be modified.

Reply to transaction 2:

- Message 1, on agricultural.duty.expression.ref : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Message: dm_ref_ade_update_05.xml

Precondition: Make sure the dm_ref_ade_update_setup_01.xml, dm_ref_ade_update_setup_02.xml and dm_ref_ade_update_setup_03.xml messages have been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural duty expression with duty expression id = 33, start date = 2008-01-01, measure type id = 888000, reduction type = N.

Transaction 2:

- Message 1: Update the stable agricultural duty expression with duty expression id = 45, start date = 2008-01-01, end date = 2009-01-01, measure type id = 080000, reduction type = N.

Transaction 3:

- Message 1: Update the stable agricultural duty expression with duty expression id = 33, reduction type = N.

Expected The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

output:

transactions:

Reply to transaction 1:

- Message 1, on measure.type.id : VR-ADE-14: The measure type cannot be modified.

Reply to transaction 2:

- Message 1, on duty.expression.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 3:

- Message 1, on measure.type.ref : GEN-VALIDATION-ERROR: XML Schema validation error.

Message:

dm_ref_ade_update_06.xml

Precondition:

Make sure the dm_ref_ade_update_setup_01.xml, dm_ref_ade_update_setup_02.xml and dm_ref_ade_update_setup_03.xml messages have been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural duty expression with duty expression id = 34, start date = 2008-01-01, measure type id = 888000, reduction type = N.

Transaction 2:

- Message 1: Update the stable agricultural duty expression with duty expression id = 34, measure type id = 080000, reduction type = N.

Transaction 3:

- Message 1: Update the stable agricultural duty expression with duty expression id = 35, start date = 2008-01-01, end date = 2010-01-01, measure type id = 080000, reduction type = N.

Transaction 4:

- Message 1: Update the stable agricultural duty expression with duty expression id = 34, start date = 2008-06-01, measure type id = 080000, reduction type = N.

Expected output:

The message is composed of transactions replying to the original transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Reply to transaction 1:

- Message 1, on measure.type.id : VR-ADE-14: The measure type cannot be modified.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

- Message 1, on agricultural.duty.expression.ref : VR-ADE-11: The validity period of an agricultural duty expression rule must span the validity period of measures which have this agricultural duty expressions in their measure components.

Reply to transaction 4:

- Message 1, on start.date : VR-ADE-16: The start date cannot be modified.

2.6.4. Test case dm_ref_ade_delete: Deletion of an agricultural duty expression

Message: dm_ref_ade_delete_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_duty_expression_setup.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable duty expression with duty expression id = 24, start date = 2007-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Transaction 2:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 24, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030000, reduction type = R.

Transaction 3:

- Message 1: Insert a stable duty expression with duty expression id = 25, start date = 2007-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = English Description.
 - description 2: language id = FR, description = French Description.
 - description 3: language id = NL, description = Dutch Description.

duty amount applicability code = 0, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 4:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 25, start date = 2008-01-01, end date = 2008-10-01, measure type id = 030001, reduction type = R.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Message:

dm_ref_ade_delete_setup_02.xml

Precondition:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_duty_expression_setup.xml messages should be successfully processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

- Message 1: Insert a stable legal regulation with regulation id = *R0822410*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.
- Message 2: Insert a stable base regulation with regulation id = *R0822410*, regulation role type = *1*, start date = *2008-01-01*, end date = *2020-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable agricultural duty expression with duty expression id = *11*, start date = *2008-01-01*, end date = *2020-01-01*, measure type id = *012000*, reduction type = *N*.

Transaction 3:

- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, country sid = *2*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of FR*.
 - description 2: language id = *FR*, description = *French Description of FR*.
 - description 3: language id = *NL*, description = *Dutch Description of FR*.
- Message 2: Insert a stable measure with measure type id = *012000*, geographical area id = *BE*, start date = *1900-01-01*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *1301*, regulation id = *R0822410*, regulation role type = *1*:
 - measure component 1: duty expression id = *11*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Message: **dm_ref_ade_delete_01.xml**

Precondition: Make sure the message dm_ref_ade_delete_setup_01.xml has been correctly processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL DUTY EXPRESSION	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the agricultural duty expression with duty expression id = 24.

Transaction 2:

- Message 1: Delete the agricultural duty expression with duty expression id = 25.

Transaction 3:

- Message 1: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 24.
- Message 2: Request the agricultural duty expression with query space field = *AGRICULTURAL DUTY EXPRESSION.AGRICULTURAL DUTY EXPRESSION REF.DUTY EXPRESSION REF.Duty expression id*, operator = =, constant = 25.

Transaction 4:

- Message 1: Delete the agricultural duty expression with duty expression id = 24.

Transaction 5:

- Message 1: Delete the agricultural duty expression with duty expression id = 25.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on duty.expression.id : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on duty.expression.id : VR-VI-3: Data to be deleted must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Message: **dm_ref_ade_delete_02.xml**

Precondition: Make sure the message dm_ref_ade_delete_setup_02.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the agricultural duty expression with duty expression id = *11*.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on duty.expression.id : VR-ADE-19: An agricultural duty expression cannot be deleted when it is used in some measure components.

2.7. **Agricultural measure validation rule**

2.7.1. **Test case init_ref_amvr_setup: Insertion of Agricultural measure validation rule reference data**

Message: **init_ref_agricultural_measure_validation_rule.xml**

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr*.
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of nl*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Description française nl.

Transaction 2:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*
 - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

statistical indicator = 0.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2000-01-01, official journal number = OL101, official journal page = 123.

Transaction 4:

- Message 1: Insert a stable country with country id = BE, start date = 1900-01-01, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 2: Insert a stable country with country id = FR, start date = 1900-01-01, area code = 0:
 - description period 1: start date = 1900-01-01:
 - description 1: language id = EN,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

description = *English Description of country group.*

- description 2: language id = *FR*, description = *French Description of country group.*
- description 3: language id = *NL*, description = *Dutch Description of country group.*

Transaction 5:

- Message 1: Insert an unstable country with country id = *XB*, start date = *1900-01-01*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group.*
 - description 2: language id = *FR*, description = *French Description of country group.*
 - description 3: language id = *NL*, description = *Dutch Description of country group.*

Transaction 6:

- Message 1: Insert a stable regulation role type with regulation role type id = *1*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of unit qualifier.*
 - description 2: language id = *FR*, description = *French Description of unit qualifier.*
 - description 3: language id = *NL*, description = *Dutch Description of unit qualifier.*
- Message 1: Insert a stable regulation role type with regulation role type id = *2*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of unit qualifier.*
 - description 2: language id = *FR*, description = *French Description of unit qualifier.*
 - description 3: language id = *NL*, description = *Dutch Description of unit qualifier.*

Transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 1: Insert a stable regulation group with regulation group id = *GRC*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *Description*.
 - description 2: language id = *FR*, description = *Description*.
 - description 3: language id = *NL*, description = *Omschrijving*.
- Message 2: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, community code = *3*, regulation group id = *GRC*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.
- Message 2: Insert a stable measure type with measure type id = *001000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

 - associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.
- Message 3: Insert a stable measure type with measure type id = *002000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

English Description.

- description 2: language id = *FR*, description = *French Description.*
- description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

- Message 4: Insert a stable measure type with measure type id = *003000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

- Message 5: Insert a stable measure type with measure type id = *004000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

code = 1.

- Message 6: Insert a stable measure type with measure type id = 005000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRC, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 2, order number capture code = 1, accepted via input bridge = 0, priority code = 1.

- Message 7: Insert a stable measure type with measure type id = 006000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRC, start date = 2008-01-01.

trade movement code = 0, measure explosion level = 6, measure component applicable code = 2, order number capture code = 1, accepted via input bridge = 0, priority code = 1.

- Message 8: Insert a stable measure type with measure type id = 007000, start date = 2008-01-02:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-02*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

- Message 9: Insert an stable measure type with measure type id = *008000*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-02*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*.

- Message 10: Insert an stable measure type with measure type id = *009000*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2001-01-02*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*, accepted via input bridge = *0*, priority code = *1*.

- Message 11: Insert an unstable measure type with measure type id = *030*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description*.
- description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

French Description.

- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2001-01-01*.

trade movement code = *0*, measure explosion level = *6*,
measure component applicable code = *2*, order number
capture code = *1*, accepted via input bridge = *0*, priority
code = *1*.

Transaction 9:

- Message 1: Insert an unstable measure type with measure type id = *030000*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description*.

- description 2: language id = *FR*, description = *French Description*.

- description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRC*, start date = *2008-01-01*.

trade movement code = *0*, measure explosion level = *6*,
measure component applicable code = *2*, order number
capture code = *1*, accepted via input bridge = *0*, priority
code = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

2.7.2. Test case **dm_ref_amvr_insert**: Insertion of an agricultural measure validation rule

Message: dm_ref_amvr_insert_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_measure_validation_rule.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 2:

- Message 1: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.* Agricultural measure validation rule sid, operator = =, constant = 1.

Transaction 3:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 03, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 4:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 001000, geographical area id = *BE*lgium, start date = 2008-01-01, agricultural measure validation rule sid = 04, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 5:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2009-01-01, agricultural measure validation rule sid = 05, maximum value reduction indicator = 9, end date = 2008-01-01.

Transaction 6:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 656000, geographical area id = XX, start date = 2008-01-01, agricultural measure validation rule sid = 06, maximum

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

value reduction indicator = 9, end date = 2009-01-01.

Transaction 7:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 07, maximum value reduction indicator = A, end date = 2009-01-01.
- Message 2: Insert a stable measure with measure type id = 002000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, order number = 222222, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-1: The combination measure type + geographical area + start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on geographical.area.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-3: The referenced measure type must exist.

Reply to transaction 7:

- Message 1, on maximum.value.reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 2, on measure : OK.

Message:

dm_ref_amvr_insert_02.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_agricultural_measure_validation_rule.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = *001000*, geographical area id = *BE*, start date = *2008-01-01*, agricultural measure validation rule sid = *01*, maximum value reduction indicator = *9*, end date = *2009-01-01*.

Transaction 2:

- Message 1: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid*, operator = *=*, constant = *1*.

Transaction 3:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *001000*, geographical area id = *BE*, start date = *2008-01-01*, agricultural measure validation rule sid = *03*, maximum value reduction indicator = *9*, end date = *2009-01-01*.

Transaction 4:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *001000*, geographical area id = *Belgium*, start date = *2008-01-01*, agricultural measure validation rule sid = *04*, maximum value reduction indicator = *9*, end date = *2009-01-01*.

Transaction 5:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *002000*, geographical area id = *BE*, start date = *2009-01-01*, agricultural measure validation rule sid = *05*, maximum value reduction indicator = *9*, end date = *2008-01-01*.

Transaction 6:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *656000*, geographical area id = *XX*, start date = *2008-01-01*, agricultural measure validation rule sid = *06*, maximum value reduction indicator = *9*, end date = *2009-01-01*.

Transaction 7:

- Message 2: Insert a stable measure with measure type id = *002000*, geographical area id = *BE*, goods

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

nomenclature id = 0100000000, productline suffix = 80,
order number = 222222, start date = 2008-01-01,
regulation id = R0801010, regulation role type = 1.

Transaction 7b:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 07, maximum value reduction indicator = A, end date = 2009-01-01.

Transaction 8:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 007000, geographical area id = BE, start date = 1899-01-01, agricultural measure validation rule sid = 08, maximum value reduction indicator = 9.

Transaction 9:

- Message 2: Insert an unstable measure with measure type id = 030000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, order number = 333333, reduction indicator = 1, regulation id = R0801010, regulation role type = 1.

Transaction 9b:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 030000, geographical area id = XB, start date = 2008-01-01, agricultural measure validation rule sid = 09, maximum value reduction indicator = 9, end date = 2009-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-1: The combination measure type + geographical area + start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on geographical.area.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 6:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-3: The referenced measure type must exist.

Reply to transaction 7:

- Message 2, on measure : OK.

Reply to transaction 7b:

- Message 1, on maximum.value.reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 8:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-6: The validity period of the agricultural measures validation rules must be enclosed by the referencing measure type validity period.
- Message 1, on geographical.area.id : VR-AMVR-7: The validity period of the geographical area must span the validity period of the agricultural measures validation rules where the geographical area is referenced.

Reply to transaction 9:

- Message 2, on measure : OK.

Reply to transaction 9b:

- Message 1, on geographical.area.id : VR-AMVR-7: The validity period of the geographical area must span the validity period of the agricultural measures validation rules where the geographical area is referenced.
- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-11: The measure type must be stable when the agricultural measure validation rule is stable.
- Message 1, on geographical.area.id : VR-AMVR-12: The geographical area must be stable when the agricultural measure validation rule is stable.

Message: dm_ref_amvr_insert_04.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_measure_validation_rule.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Transaction 1:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.7.3. Test case dm_ref_amvr_update: Update of an agricultural measure validation rule

Message: dm_ref_amvr_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_measure_validation_rule.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Transaction 2:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 02, maximum value reduction indicator = 9, end date = 2012-01-01.

Transaction 3:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 003000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 03, maximum

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

value reduction indicator = 8.

Transaction 4:

- Message 1: Insert an unstable measure with measure type id = 003000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, order number = 333333, reduction indicator = 2, start date = 2009-01-01, measure sid = 3, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801010, regulation role type = 1.

Transaction 5:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 004000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 05, maximum value reduction indicator = 9.
- Message 2: Insert an unstable measure with measure type id = 004000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, order number = 444444, reduction indicator = 1, start date = 2009-01-01, measure sid = 4, regulation id = R0801010, regulation role type = 1.

Transaction 6:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 005000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 06, maximum value reduction indicator = 9.

Transaction 7:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 006000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 07, maximum value reduction indicator = 9.

Transaction 8:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 007000, geographical area id = XB, start date = 2008-01-02, agricultural measure validation rule sid = 20, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 9:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 007000, geographical area id = BE, start date = 2009-01-02, agricultural measure validation rule sid = 21, maximum value reduction indicator = 9.

Transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 008000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 22, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 11:

- Message 1: Insert an stable agricultural measure validation rule with measure type id = 008000, geographical area id = BE, start date = 2009-01-02, agricultural measure validation rule sid = 23, maximum value reduction indicator = 9.

Transaction 12:

- Message 1: Insert an stable agricultural measure validation rule with measure type id = 009000, geographical area id = BE, start date = 2009-01-01, agricultural measure validation rule sid = 24, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 13:

- Message 1: Insert an stable agricultural measure validation rule with measure type id = 009000, geographical area id = BE, start date = 2009-01-02, agricultural measure validation rule sid = 25, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 14:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 030, geographical area id = XB, start date = 2008-01-01, agricultural measure validation rule sid = 08, maximum value reduction indicator = 9.

Transaction 15:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 001000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 9, maximum value reduction indicator = 1.

Transaction 16:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = FR, goods nomenclature id = 0100000000, productline suffix = 80, order number = 111111, reduction indicator = 1, start date = 2009-01-01, measure sid = 1, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801010, regulation role type = 1.

Transaction 17:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 002000, geographical area id

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

= *FR*, start date = 2008-01-01, agricultural measure validation rule sid = 11, maximum value reduction indicator = 9.

- Message 2: Insert a stable measure with measure type id = 002000, geographical area id = *FR*, goods nomenclature id = 0100000000, productline suffix = 80, order number = 222222, reduction indicator = 1, start date = 2009-01-01, measure sid = 2, regulation id = R0801010, regulation role type = 1.

Transaction 18:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 006000, geographical area id = *FR*, start date = 2008-01-01, agricultural measure validation rule sid = 12, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Message: **dm_ref_amvr_update_01.xml**

Precondition: Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 2:

- Message 1: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 999000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 999, maximum value reduction indicator = 9.

Transaction 4:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 04, maximum value reduction indicator = 9, end date = 2007-01-01.

Transaction 5:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 05, maximum value reduction indicator = A, end date = 2009-01-01.
- Message 2: Update the stable measure with measure type id = 001000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = A, start date = 2001-01-01, measure sid = 1, regulation id = R0801010, regulation role type = 1.

Transaction 6:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 002000,

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

geographical area id = *BE*, start date = *2008-01-01*,
 agricultural measure validation rule sid = *02*, maximum
 value reduction indicator = *9*, end date = *2009-01-01*.

Transaction 7:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = *003000*, geographical area id = *BE*, start date = *2008-01-01*, agricultural measure validation rule sid = *03*, maximum value reduction indicator = *1*, end date = *2009-01-01*.
- Message 2: Update the stable measure with measure type id = *003000*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, reduction indicator = *1*, start date = *2001-01-01*, measure sid = *3*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 8:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = *004000*, geographical area id = *BE*, start date = *2008-01-01*, agricultural measure validation rule sid = *05*, maximum value reduction indicator = *2*, end date = *2009-01-01*.
- Message 2: Update the unstable measure with measure type id = *004000*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, reduction indicator = *2*, start date = *2001-01-01*, measure sid = *4*, regulation id = *R0801010*, regulation role type = *1*.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on maximum.value.reduction.indicator :

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

GEN-INVALID-FORMAT-ERROR: Invalid format.

- Message 2, on reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

Reply to transaction 7:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-10: If the measure's measure type and geographical area are listed in an Agricultural Measures Validation Rule, and the validity period of the measure intercepts the validity period in this rule, the value of the reduction indicator must be between (inclusive) 1 and the maximum value of the reduction indicator in this rule.
- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-14: The reduction indicator cannot be modified.
- Message 2, on measure.ref : OK.

Reply to transaction 8:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-14: The reduction indicator cannot be modified.
- Message 2, on measure.ref : OK.

Message: dm_ref_amvr_update_02.xml

Precondition: Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 1, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 2:

- Message 1: Request the agricultural measure validation rule with query space field = AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 999000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 999, maximum value reduction indicator = 9.

Transaction 4:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 004000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 5, maximum value reduction indicator = 9, end date = 2007-01-01.

Transaction 5:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 005000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 6, maximum value reduction indicator = A, end date = 2009-01-01.
- Message 2: Update the stable measure with measure type id = 005000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = A, start date = 2001-01-01, measure sid = 5, regulation id = R0801010, regulation role type = 1.

Transaction 6:

- Message 1: Update the stable measure with measure type id = 003000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 9, start date = 2001-01-01, measure sid = 3, regulation id = R0801010, regulation role type = 1.
- Message 2: Update the stable agricultural measure validation rule with measure type id = 003000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 3, maximum value reduction indicator = 8, end date = 2009-01-01.

Transaction 7:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 004000, geographical area id = BE, start date = 2009-01-01, agricultural measure validation rule sid = 5, maximum value reduction indicator = 2, end date = 2012-01-01.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 1: Update the stable measure with measure type id = 003000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 3, start date = 2008-01-02, measure sid = 3, regulation id = R0801010, regulation role type = 1.
- Message 2: Update the stable agricultural measure validation rule with measure type id = 003000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 3, maximum value reduction indicator = 8, end date = 2008-04-01.

Transaction 9:

- Message 1: Insert an unstable measure with measure type id = 006000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, order number = 666666, reduction indicator = 1, start date = 2008-01-01, measure sid = 6, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801010, regulation role type = 1.
- Message 2: Update the stable agricultural measure validation rule with measure type id = 006000, geographical area id = BE, start date = 1899-01-01, agricultural measure validation rule sid = 7, maximum value reduction indicator = 9, end date = 2030-01-01.

Transaction 10:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 030, geographical area id = XB, start date = 2008-01-01, agricultural measure validation rule sid = 8, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

absence of the end date indicates infinity into the future.

Reply to transaction 5:

- Message 1, on maximum.value.reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 2, on reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

- Message 1, on measure.ref : OK.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-10: If the measure's measure type and geographical area are listed in an Agricultural Measures Validation Rule, and the validity period of the measure intercepts the validity period in this rule, the value of the reduction indicator must be between (inclusive) 1 and the maximum value of the reduction indicator in this rule.

Reply to transaction 7:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-14: The reduction indicator cannot be modified.

Reply to transaction 8:

- Message 1, on measure.ref : OK.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-5: The validity period of an agricultural measure validation rule must span the validity period of measures with the same measure type and geographical area, which have a start date within that validity period.

Reply to transaction 9:

- Message 1, on measure : OK.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-6: The validity period of the agricultural measures validation rules must be enclosed by the referencing measure type validity period.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-7: The validity period of the geographical area must span the validity period of the agricultural measures validation rules where the geographical area is referenced.

Reply to transaction 10:

- Message 1, on measure.type.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.
- Message 1, on geographical.area.id : VR-VI-6: When the

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

publication status of data is set to stable, all foreign key reference data must exist as stable.

- Message 1, on geographical.area.id : VR-AMVR-7: The validity period of the geographical area must span the validity period of the agricultural measures validation rules where the geographical area is referenced.

Message: **dm_ref_amvr_update_03.xml**

Precondition: Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 2, maximum value reduction indicator = 9, end date = 2009-01-01.

Transaction 2:

- Message 1: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid*, operator = =, constant = 2.

Transaction 3:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 999000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 999, maximum value reduction indicator = 9.

Transaction 4:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 4, maximum value reduction indicator = 1, end date = 2007-01-01.
- Message 2: Update the stable measure with measure type id = 002000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 1, start date = 2001-01-01, measure sid = 2, regulation id = R0801010, regulation role type = 1.

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 2, maximum value reduction indicator = A, end date = 2009-01-01.
- Message 2: Update the stable measure with measure type id = 002000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = A, start date = 2001-01-01, measure sid = 2, regulation id = R0801010, regulation role type = 1.

Transaction 6:

- Message 1: Update the stable measure with measure type id = 003000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 9, start date = 2008-01-01, measure sid = 3, regulation id = R0801010, regulation role type = 1.
- Message 2: Update the stable agricultural measure validation rule with measure type id = 003000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 3, maximum value reduction indicator = 8, end date = 2009-01-01.

Transaction 7:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 2, maximum value reduction indicator = 2, end date = 2012-01-01.
- Message 2: Update the stable measure with measure type id = 002000, geographical area id = FR, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 2, start date = 2001-01-01, measure sid = 2, regulation id = R0801010, regulation role type = 1.

Transaction 8:

- Message 1: Update the stable measure with measure type id = 001000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 3, start date = 2008-01-02, measure sid = 1, regulation id = R0801010, regulation role type = 1.
- Message 2: Update the stable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 1, maximum

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

value reduction indicator = 9, end date = 2008-04-01.

Transaction 9:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 006000, geographical area id = BE, start date = 1899-01-01, agricultural measure validation rule sid = 7, maximum value reduction indicator = 9, end date = 2030-01-01.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 2, on measure.ref : OK.

Reply to transaction 5:

- Message 1, on maximum.value.reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 2, on reduction.indicator : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

- Message 1, on measure.ref : OK.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-10: If the measure's measure type and geographical area are listed in an Agricultural Measures Validation Rule, and the validity period of the measure intercepts the validity period in this rule, the value of the reduction indicator must be between (inclusive) 1 and the maximum value of the reduction indicator in this rule.

Reply to transaction 7:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-14: The reduction indicator cannot be modified.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

- Message 2, on measure.ref : OK.

Reply to transaction 8:

- Message 1, on measure.ref : OK.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-5: The validity period of an agricultural measure validation rule must span the validity period of measures with the same measure type and geographical area, which have a start date within that validity period.

Reply to transaction 9:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-6: The validity period of the agricultural measures validation rules must be enclosed by the referencing measure type validity period.
- Message 2, on agricultural.measure.validation.rule.ref : VR-AMVR-7: The validity period of the geographical area must span the validity period of the agricultural measures validation rules where the geographical area is referenced.

Message: **dm_ref_amvr_update_04.xml**

Precondition: Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 004000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Transaction 2:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 001000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Transaction 3:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 007000, geographical area id = BE, start date = 2008-01-02, agricultural measure validation rule sid = 20, maximum value reduction indicator = 9.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Transaction 4:

- Message 1: Update the unstable agricultural measure validation rule with measure type id = 008000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 22, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-2: The referenced measure type cannot be modified.

Reply to transaction 2:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-13: The geographical area cannot be modified.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Message:

dm_ref_amvr_update_05.xml

Precondition:

Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 004000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Transaction 2:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 001000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

Transaction 3:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 001000, geographical area id = BE, agricultural measure validation rule sid = 01, maximum value reduction indicator = 9.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Transaction 4:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 007000, geographical area id = BE, agricultural measure validation rule sid = 20, maximum value reduction indicator = 9.

Transaction 5:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 008000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 22, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-2: The referenced measure type cannot be modified.

Reply to transaction 2:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-13: The geographical area cannot be modified.

Reply to transaction 3:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 4: Status ok.

Reply to transaction 5:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-8: The validity period of an "agricultural measures validation rule" can not overlap the validity period of another "agricultural measures validation rule" with the same measure type + geographical area.

Message:

dm_ref_amvr_update_06.xml

Precondition:

Make sure the dm_ref_amvr_update_setup_01.xml message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable agricultural measure

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

validation rule with measure type id = 001000,
geographical area id = BE, start date = 2008-01-01,
agricultural measure validation rule sid = 02, maximum
value reduction indicator = 9.

Transaction 2:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 02, maximum value reduction indicator = 9.

Transaction 3:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, start date = 2008-06-01, agricultural measure validation rule sid = 02, maximum value reduction indicator = 9.

Transaction 4:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 002000, geographical area id = BE, agricultural measure validation rule sid = 02, maximum value reduction indicator = 9.

Transaction 5:

- Message 1: Update the stable agricultural measure validation rule with measure type id = 009000, geographical area id = BE, start date = 2008-01-01, agricultural measure validation rule sid = 24, maximum value reduction indicator = 9.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-2: The referenced measure type cannot be modified.

Reply to transaction 2:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-13: The geographical area cannot be modified.

Reply to transaction 3:

- Message 1, on agricultural.measure.validation.rule.ref : VR-AMVR-15: The start date cannot be modified.

Reply to transaction 4:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

information tagged as mandatory in the data elements has to be provided.

Reply to transaction 5:

- Message 1, on agricultural.measure.validation.rule.ref: VR-AMVR-8: The validity period of an "agricultural measures validation rule" can not overlap the validity period of another "agricultural measures validation rule" with the same measure type + geographical area.

2.7.4. Test case dm_ref_amvr_delete: Deletion of an agricultural measure validation rule

Message: dm_ref_amvr_delete_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, init_ref_agricultural_measure_validation_rule.xml messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 005000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 01, maximum value reduction indicator = 1, end date = 2009-01-01.

Transaction 2:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 006000, geographical area id = FR, start date = 2008-01-01, agricultural measure validation rule sid = 02, maximum value reduction indicator = 2, end date = 2009-01-01.

Expected output: The message is composed of transactions replying to the original transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Message: dm_ref_amvr_delete_01.xml

Precondition: Make sure the message dm_ref_amvr_delete_setup_01.xml has been correctly processed by the system.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

Transaction 1:

- Message 1: Delete the agricultural measure validation rule with agricultural measure validation rule sid = 01.

Transaction 2:

- Message 1: Delete the agricultural measure validation rule with agricultural measure validation rule sid = 02.

Transaction 3:

- Message 1: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid*, operator = =, constant = 1.
- Message 2: Request the agricultural measure validation rule with query space field = *AGRICULTURAL MEASURE VALIDATION RULE.AGRICULTURAL MEASURE VALIDATION RULE REF.Agricultural measure validation rule sid*, operator = =, constant = 2.

Transaction 4:

- Message 1: Delete the agricultural measure validation rule with agricultural measure validation rule sid = 01.

Transaction 5:

- Message 1: Delete the agricultural measure validation rule with agricultural measure validation rule sid = 02.

Expected output:

The message is composed of transactions replying to the original transactions:

Reply to transaction 1:

- Message 1, on agricultural.measure.validation.rule.sid : OK.

Reply to transaction 2:

- Message 1, on agricultural.measure.validation.rule.sid : OK.

Reply to transaction 3:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 4:

- Message 1, on agricultural.measure.validation.rule.sid : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on agricultural.measure.validation.rule.sid : VR-VI-3: Data to be deleted must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
DATA MAINTENANCE	Ref: TARIC3-STP
AGRICULTURAL MEASURE VALIDATION RULE	

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
ENVIRONMENT DESCRIPTION	

3. TEST REPORT FORM

3.1. Environment description

Hardware platform	Sun
Operating system	Solaris X
Official release number ¹	n1.n2.n3
ClearCase label ²	TARIC3_INT_YYYYMMDD[x] or TARIC3_n1.n2.n3
System Test File version	1.00
Execution date	YYYY-MM-DD

3.2. Test case execution

Test case id	dm_ref_ctr_insert	Status
Message id	dm_ref_ctr_insert_setup_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
Message id	dm_ref_ctr_insert_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
Message id	dm_ref_ctr_insert_02.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	

¹ This information must only be filled in for testing of official delivery (e.g. 1.0.0).

² This information is only available to the development team and identifies the tested internal version.

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Message id	dm_ref_ctr_insert_03.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
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10		
11		
12		
13		

Message id	dm_ref_ctr_insert_04.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
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14		
15		
16		

Test case id	dm_ref_ctr_update	Status
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Message id	dm_ref_ctr_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
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7		
8		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 9
- 10
- 11
- 12
- 13

Message id	dm_ref_ctr_update_setup_02.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Message id	dm_ref_ctr_update_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Message id	dm_ref_ctr_update_02.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 14
- 15
- 16
- 17
- 18
- 19

Message id	dm_ref_ctr_update_03.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
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10		
11		
12		
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14		
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17		
18		
19		
20		
21		

Message id	dm_ref_ctr_update_04.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
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15		
16		
17		
18		
19		

Message id	dm_ref_ctr_update_05.xml	Status
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Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 2
- 3
- 4
- 5
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28

Message id	dm_ref_ctr_update_06.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20

Test case id	dm_ref_ctr_delete	Status
Message id	dm_ref_ctr_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

2
3
4
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6

Message id	dm_ref_ctr_delete_setup_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		

Message id	dm_ref_ctr_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_ref_ctr_delete_02.xml	Status
Transaction id	Status	Comment
1		
2		

Test case id	dm_ref_cg_insert	Status
Message id	init_ref_country_group_setup.xml	Status
Transaction id	Status	Comment
1		
2		
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8		
9		
10		

Message id	dm_ref_cg_insert_01.xml	Status
Transaction id	Status	Comment
1		
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3		
4		
5		
6		
7		
8		

Message id	dm_ref_cg_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5
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Message id	dm_ref_cg_insert_03.xml	Status
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Transaction id	Status	Comment
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3
4
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9

Message id	dm_ref_cg_insert_04.xml	Status
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Transaction id	Status	Comment
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1
2
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16

Message id	dm_ref_cg_di_insert_01.xml	Status
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Transaction id	Status	Comment
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1
2
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9

Message id	dm_ref_cg_di_insert_02.xml	Status
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Transaction id	Status	Comment
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1
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3
4
5

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6
7
8
9

Test case id	dm_ref_cg_update	Status
Message id	dm_ref_cg_update_setup_01.xml	Status

Transaction id	Status	Comment
1		
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3		
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7		
8		
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10		
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13		
14		
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18		
19		
20		
21		

Message id	dm_ref_cg_update_01.xml	Status
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Transaction id	Status	Comment
1		
2		
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4		
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11		
12		
13		

Message id	dm_ref_cg_update_02.xml	Status
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Transaction id	Status	Comment
1		
2		
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4		
5		
6		
7		
8		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Message id	dm_ref_cg_update_03.xml	Status
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Transaction id	Status	Comment
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2		
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12		
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16		
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18		
19		

Message id	dm_ref_cg_update_04.xml	Status
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Transaction id	Status	Comment
1		
2		
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8		
9		
10		

Message id	dm_ref_cg_update_05.xml	Status
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Transaction id	Status	Comment
1		
2		
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7		
8		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Message id	dm_ref_cg_update_06.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Message id	dm_ref_cg_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2

Message id	dm_ref_cg_di_update_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Message id	dm_ref_cg_di_update_02.xml	Status
------------	----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

9

Message id	dm_ref_cg_di_update_03.xml	Status
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Transaction id	Status	Comment
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1

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Test case id	dm_ref_cg_delete	Status
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Message id	dm_ref_cg_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

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11

Message id	dm_ref_cg_delete_01.xml	Status
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Transaction id	Status	Comment
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1

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Test case id	dm_ref_de_insert	Status
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Message id	dm_ref_de_insert_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

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6

Message id	dm_ref_de_insert_02.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1

2

3

4

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5

6

Message id	dm_ref_de_insert_03.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1

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9

Message id	dm_ref_de_insert_04.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
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1

2

3

4

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9

10

Test case id	dm_ref_de_update	Status
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Message id	dm_ref_de_update_setup_01.xml	Status
------------	-------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1

2

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11

Message id	dm_ref_de_update_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

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Message id	dm_ref_de_update_02.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1

2

3

4

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5
6
7
8

Message id	dm_ref_de_update_03.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8

Message id	dm_ref_de_update_04.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9

Message id	dm_ref_de_update_05.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9
10

Message id	dm_ref_de_update_06.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9

Test case id	dm_ref_de_delete	Status
--------------	------------------	--------

Message id	dm_ref_de_delete_setup_01.xml	Status
------------	-------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

3
4
5
6
7
8

Message id	dm_ref_de_delete_01.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8

Test case id	dm_ref_ct_insert	Status
Message id	dm_ref_ct_insert_01.xml	Status

Transaction id	Status	Comment
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1
2
3
4
5
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7

Message id	dm_ref_ct_insert_02.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
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1
2
3
4
5
6
7
8

Message id	dm_ref_ct_insert_03.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9
10

Message id	dm_ref_ct_insert_04.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 4
- 5
- 6
- 7
- 8
- 9
- 10

Test case id	dm_ref_ct_update	Status
Message id	dm_ref_ct_update_setup_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Message id	dm_ref_ct_update_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Message id	dm_ref_ct_update_02.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Message id	dm_ref_ct_update_03.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

8

Message id	dm_ref_ct_update_04.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
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1

2

3

4

5

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10

Message id	dm_ref_ct_update_05.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

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Message id	dm_ref_ct_update_06.xml	Status
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Transaction id	Status	Comment
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1

2

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Test case id	dm_ref_ct_delete	Status
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Message id	dm_ref_ct_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1

2

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13

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

14

Message id	dm_ref_ct_delete_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

Test case id	dm_ref_acn_insert	Status
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Message id	dm_ref_acn_insert_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24

Message id	dm_ref_acn_insert_02.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27

Message id	dm_ref_acn_insert_03.xml	Status
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Transaction id	Status	Comment
1		
2		

Message id	dm_ref_acn_insert_04.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		

Message id	dm_ref_acn_di_insert_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ref_acn_di_insert_02.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Test case id	dm_ref_acn_update	Status
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Message id	dm_ref_acn_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		
2		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Message id	dm_ref_acn_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ref_acn_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Message id	dm_ref_acn_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Message id	dm_ref_acn_update_04.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ref_acn_update_05.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ref_acn_update_06.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Message id	dm_ref_acn_di_update_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		

Message id	dm_ref_acn_di_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ref_acn_di_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ref_acn_di_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

7
8
9

Test case id	dm_ref_acn_delete	Status
Message id	dm_ref_acn_delete_setup_01.xml	Status
Transaction id	Status	Comment

1
2

Message id	dm_ref_acn_delete_01.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7

Test case id	dm_ref_ade_insert	Status
Message id	dm_ref_ade_insert_setup_01.xml	Status
Transaction id	Status	Comment

1
2
3
4
5

Message id	dm_ref_ade_insert_01.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8
9

Message id	dm_ref_ade_insert_02.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8
9
10
11

Message id	dm_ref_ade_insert_03.xml	Status
Transaction id	Status	Comment

1
2

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ref_ade_insert_04.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	

Test case id	dm_ref_ade_update	Status
Message id	dm_ref_ade_update_setup_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	

Message id	dm_ref_ade_update_setup_02.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	

Message id	dm_ref_ade_update_setup_03.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	

Message id	dm_ref_ade_update_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	

Message id	dm_ref_ade_update_02.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	

Message id	dm_ref_ade_update_03.xml	Status
Transaction id	Status	Comment
	1	

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

2
3
4
5
6
7
8

Message id	dm_ref_ade_update_04.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2

Message id	dm_ref_ade_update_05.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Message id	dm_ref_ade_update_06.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4

Test case id	dm_ref_ade_delete	Status
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Message id	dm_ref_ade_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1
2
3
4

Message id	dm_ref_ade_delete_setup_02.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Message id	dm_ref_ade_delete_01.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5

Message id	dm_ref_ade_delete_02.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1

Test case id	dm_ref_amvr_insert	Status
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Message id	dm_ref_amvr_insert_01.xml	Status
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Transaction id	Status	Comment
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1
2
3
4
5
6

DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

7

Message id	dm_ref_amvr_insert_02.xml	Status
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Transaction id	Status	Comment
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1

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Message id	dm_ref_amvr_insert_04.xml	Status
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Transaction id	Status	Comment
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1

Test case id	dm_ref_amvr_update	Status
--------------	--------------------	--------

Message id	dm_ref_amvr_update_setup_01.xml	Status
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Transaction id	Status	Comment
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12

Message id	dm_ref_amvr_update_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_ref_amvr_update_02.xml	Status
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Transaction id	Status	Comment
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Message id	dm_ref_amvr_update_03.xml	Status
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DG TAXUD – TARIC3-STP – System Test Plan - Part 1	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Transaction id	Status	Comment
1		
2		
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4		
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8		
9		

Message id	dm_ref_amvr_update_04.xml	Status
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Transaction id	Status	Comment
1		
2		

Message id	dm_ref_amvr_update_05.xml	Status
------------	---------------------------	--------

Transaction id	Status	Comment
1		
2		
3		

Message id	dm_ref_amvr_update_06.xml	Status
------------	---------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		

Test case id	dm_ref_amvr_delete	Status
--------------	--------------------	--------

Message id	dm_ref_amvr_delete_setup_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_ref_amvr_delete_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		