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DOCUMENT HISTORY

EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
0	10	19/08/2008	Submitted for review to DG TAXUD.	Insert	All
1	00	12/09/2008	Submitted for acceptance to DG TAXUD.	Update	Some
1	10	05/06/2009	Split up document. Modified test cases to correspond with process model. Added test cases. Submitted for review to DG TAXUD.	Update	All
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1	11	01/12/2009	Additional test cases	Update	As requested
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2	00	18/05/2010	Sent for Acceptance.	Update	As requested
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DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DOCUMENT HISTORY	Ref: TARIC3-STP

EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
2	10	29/10/2010	Sent for Review to DG TAXUD	-	-
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DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
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. Footnote	7
2.1.1. Test case init_ref_fo_setup: Insertion of Footnote reference data	7
2.1.2. Test case dm_ref_fo_insert: Insertion of a footnote.....	17
2.1.3. Test case dm_ref_fo_di_insert: Insert a footnote description	29
2.1.4. Test case dm_ref_fo_update: Update of a footnote	38
2.1.5. Test case dm_ref_fo_delete: Deletion of a footnote	73
2.1.6. Test case dm_ref_fo_di_update: Update of a footnote description	84
2.2. Language.....	99
2.2.1. Test case init_ref_language_setup: Insertion of Language reference data	99
2.2.2. Test case dm_ref_la_insert: Insertion of a language	100
2.2.3. Test case dm_ref_la_update: Update of a language	113
2.2.4. Test case dm_ref_la_delete: Deletion of a language.....	119
2.2.5. Test case dm_ref_la_di_update: Update of a language description	121
2.3. Dynamic footnote association rule	133
2.3.1. Test case init_ref_dfar_setup: Insertion of Dynamic footnote association rule reference data	133
2.3.2. Test case dm_ref_dfar_insert: Insertion of a dynamic footnote association rule	140
2.3.3. Test case dm_ref_dfar_update: Update of a dynamic footnote association rule	149
2.3.4. Test case dm_dfar_fo_delete: Deletion of a dynamic footnote association rule	163
2.4. Measurement unit	165

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.4.1.	Test case init_ref_mu_setup: Insertion of Measurement unit reference data	165
2.4.2.	Test case dm_ref_mu_insert: Insertion of a measurement unit.....	173
2.4.3.	Test case dm_ref_mu_update: Update of a measurement unit.....	189
2.4.4.	Test case dm_ref_mu_delete: Deletion of a measurement unit	201
2.4.5.	Test case dm_ref_mu_di_update: Update of a measurement unit description	206
2.4.6.	Test case dm_ref_mu_ass_insert: Insert of a measurement unit qualifier association.....	220
2.4.7.	Test case dm_ref_mu_ass_update: Update of a measurement unit qualifier association.....	225
2.4.8.	Test case dm_ref_mu_ass_delete: Delete of a measurement unit qualifier association.....	229
2.5.	Measurement unit qualifier	235
2.5.1.	Test case init_ref_measurement_unit_qualifier_setup: Insertion of measurement unit qualifier reference data	235
2.5.2.	Test case dm_ref_muq_insert: Insertion of a measurement unit qualifier	242
2.5.3.	Test case dm_ref_muq_update: Update of a measurement unit qualifier	255
2.5.4.	Test case dm_ref_muq_delete: Deletion of a measurement unit Qualifier.....	267
2.5.5.	Test case dm_ref_muq_di_update: Update of a measurement unit description	275
2.6.	Publication sigle.....	288
2.6.1.	Test case dm_ref_ps_insert: Insertion of a publication sigle	288
2.6.2.	Test case dm_ref_ps_update: Update of a publication sigle	291
2.6.3.	Test case dm_ref_ps_delete: Deletion of a publication sigle.....	298
3.	TEST REPORT FORM.....	300
3.1.	Environment description.....	300
3.2.	Test case execution	300

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:

- Footnote;
- Language;
- Dynamic footnote association rule;
- Measurement unit;
- Measurement unit qualifier;
- Publication sigle.

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

TIN Trader Identification Number

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TABLE OF CONTENTS	Ref: TARIC3-STP

- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

2. DATA MAINTENANCE

2.1. Footnote

2.1.1. Test case `init_ref_fo_setup`: Insertion of Footnote reference data

Message: `init_ref_footnote_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 = *2007-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description of fr.*
- Message 3: Insert a stable language with language id = *NL*, start date = *2007-01-01*:
 - 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 footnote type with footnote type id = *ANC*, 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 = *1*.
- Message 2: Insert a stable footnote type with footnote type id = *ATN*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

French Description.

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

application code = 2.

- Message 3: Insert a stable footnote type with footnote type id = *ACD*, 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.*

application code = 5.

- Message 4: Insert a stable footnote type with footnote type id = *ACA*, 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.*

application code = 5.

- Message 5: Insert a stable footnote type with footnote type id = *ACF*, 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.*

application code = 5.

- Message 6: Insert a stable footnote type with footnote type id = *ACG*, start date = *2007-01-01*:

- description 1: language id = *EN*, description = *English Description.*

- description 2: language id = *FR*, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

application code = 5.
- Message 7: Insert a stable footnote type with footnote type id = *FTA*, 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*.

application code = 7.
- Message 8: Insert a stable footnote type with footnote type id = *FTB*, 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*.

application code = 7.
- Message 9: Insert a stable footnote type with footnote type id = *FTC*, 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*.

application code = 6.
- Message 10: Insert a stable footnote type with footnote type id = *FTD*, 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*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

application code = 7.

- Message 11: Insert a stable footnote type with footnote type id = *ERN*, 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*.

application code = 3.

- Message 12: Insert a stable footnote type with footnote type id = *MUR*, 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*.

application code = 8.

- Message 13: Insert a stable footnote type with footnote type id = *DFA*, 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*.

application code = 9.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, 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*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *Dutch Description*.

- Message 2: Insert a stable footnote with footnote type id = *ACG*, footnote id = *00800*, 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*.
- Message 3: Insert a stable footnote with footnote type id = *ACG*, footnote id = *00900*, start date = *2007-01-01*, end date = *2007-12-31*:
 - 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*.
- Message 4: Insert a stable footnote with footnote type id = *ANC*, footnote id = *00300*, 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 4:

- Message 1: Insert an unstable footnote type with footnote type id = *ACI*, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Dutch Description.

application code = 5.

- Message 2: Insert an unstable footnote type with footnote type id = ACO, 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.*

application code = 3.

Transaction 5:

- Message 1: Insert an unstable footnote with footnote type id = ACO, footnote id = 02000, start date = 2000-01-01:
 - description period 1: start date = 2000-01-01, 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 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 777:
 - 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.*
 - description period 2: start date = 2008-02-01:
 - description 1: language id = EN, description = *English Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 = *10*.
- indent 2: indent sid = *2*, start date = *2008-02-01*,
indent number = *20*.

statistical indicator = *0*.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *00*, start date = *2007-01-01*, goods nomenclature sid = *778*:
 - 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 = *3*, start date = *2007-01-01*,
indent number = *10*.
 - indent 2: indent sid = *4*, start date = *2007-02-01*,
indent number = *20*.

statistical indicator = *0*.

Transaction 8:

- Message 1: Insert an unstable country with country id = *FR*, 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 FR*.
 - description 2: language id = *FR*,
description = *French Description of FR*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *Dutch Description of FR.*

Transaction 9:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801010*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 10:

- Message 1: 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 11:

- Message 1: Insert an unstable regulation role type with regulation role type id = *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 12:

- Message 1: Insert an unstable base regulation with regulation id = *R0801010*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 13:

- Message 1: Insert an unstable measure type series with measure type series id = *AA*:
 - 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 14:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Insert an unstable measure type with measure type id = 001:
 - 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.

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

Transaction 15:

- 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.*
 - description 2: language id = FR, description = *Description francaise.*
 - description 3: language id = NL, description = *Netherlands description.*

application code = 0.

Transaction 16:

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

application code = 0.

Transaction 142:

- Message 1: Insert a stable additional code type with additional code type id = C, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

application code = 1.

Transaction 17:

- Message 1: Insert a stable measure condition code with condition code = *AA*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *Description francaise*.
 - description 3: language id = *NL*, description = *Netherlands description*.

Transaction 18:

- Message 1: Insert a stable measure action code with action code = *302*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *Description francaise*.
 - description 3: language id = *NL*, description = *Netherlands 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.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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.

2.1.2. Test case dm_ref_fo_insert: Insertion of a footnote

Message: dm_ref_fo_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_footnote_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 footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 2:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = *=*, constant = *01000*.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 4:

- Message 1: Insert an unstable footnote with footnote type id = *AAμÂμ*, footnote id = *k*, start date = *2008/02*:
 - description period 1: start date = *2008/Feb*:
 - description 1: language id = *EN1*, description = *English Description*.
 - description 2: language id = *FR2*, description = *French Description*.
 - description 3: language id = *nl*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*, 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 footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description*.

Transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Insert an unstable footnote with footnote type id = *XXX*, footnote id = *01000*, start 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*.

Transaction 8:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*:
 - description period 1: start date = *2009-06-01*:
 - 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 footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*, 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*.
 - description period 2: start date = *2008-06-01*:
 - 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 10:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*, end date = *2008-12-01*:
 - 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*.
 - 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*.

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on footnote.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on footnote.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Reply to transaction 7:

- Message 1, on footnote.ref : VR-FO-4: The referenced footnote type must exist.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on footnote.ref : OK.

Reply to transaction 10:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.
- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Message: dm_ref_fo_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_footnote_type_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 footnote with footnote type id

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

= ACD, footnote id = 01000, start 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*.

Transaction 2:

- Message 1: Request the footnote with operator = AND, query space field = FOOTNOTE.FOOTNOTE REF.Footnote type id, operator = =, constant = ACD, query space field = FOOTNOTE.FOOTNOTE REF.Footnote id, operator = =, constant = 01000.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = ACD, footnote id = 01000, start 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*.

Transaction 4:

- Message 1: Insert a stable footnote with footnote type id = ACÂµ, footnote id = k, start date = 2008/02:
 - description period 1: start date = 2008/Feb:
 - description 1: language id = EN1, description = *English Description*.
 - description 2: language id = FR2, description = *French Description*.
 - description 3: language id = nl, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert a stable footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01, end date = 2007-12-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = NL, description = *Dutch Description*.

Transaction 7:

- Message 1: Insert a stable footnote with footnote type id = XXX, footnote id = 01000, start 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*.

Transaction 8:

- Message 1: Insert a stable footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01:
 - description period 1: start date = 2009-06-01:
 - 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 footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01, end date = 2008-04-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 = 2008-06-01:
 - 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 footnote with footnote type id = *ACD*, footnote id = *01100*, start date = 2008-02-01, end date = 2008-12-01:
 - 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*.
 - 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 11:

- Message 1: Insert a stable footnote with footnote type id = *ACI*, footnote id = *01100*, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 footnote with footnote type id = *ACA*, footnote id = *01100*, start date = *2011-02-01*:
 - description period 1: start date = *2011-02-01*:
 - 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 footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on footnote.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on footnote.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : 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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

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 footnote.ref : VR-FO-4: The referenced footnote type must exist.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on description.period.ref : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 10:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.

Reply to transaction 11:

- Message 1, on footnote.ref : VR-FO-8: The footnote type must be stable when the footnote is stable.

Reply to transaction 12:

- Message 1, on footnote.ref : VR-FO-9: The validity period of the footnote must be enclosed by the validity period of the related footnote type.

Message: dm_ref_fo_insert_03.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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

init_ref_footnote_type_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 footnote with footnote type id = *WWW*, footnote id = *04321*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 04321*.
 - description 2: language id = *FR*, description = *French Description of 04321*.
 - description 3: language id = *NL*, description = *Dutch Description of 04321*.

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

Reply to transaction 1: Message 1, on footnote.ref : VR-FO-4:
The referenced footnote type must exist.

Message: **dm_ref_fo_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_footnote_type_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 footnote with footnote type id = *ACI*, footnote id = *01123*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 01123*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *French Description of 01123.*

- description 3: language id = *NL*, description = *Dutch Description of 01123.*

Transaction 2:

- Message 1: Insert a stable footnote with footnote type id = *ACI*, footnote id = *01124*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 01124.*
 - description 2: language id = *FR*, description = *French Description of 01124.*
 - description 3: language id = *NL*, description = *Dutch Description of 01124.*

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACI*, footnote id = *01124*, start date = *2008-01-01*:
 - description period 1:
 - description 1: language id = *EN*, description = *English Description of 01124.*
 - description 2: language id = *FR*, description = *French Description of 01124.*
 - description 3: language id = *NL*, description = *Dutch Description of 01124.*

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : VR-FO-8: The footnote type must be stable when the footnote is 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

to be provided.

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

Reply to transaction 3:

- Message 1, on description.period.list : VR-FO-5: A description period having the same start date as the footnote is mandatory.
- Message 1, on footnote.ref : VR-FO-8: The footnote type must be stable when the footnote is stable.
- Message 1, on description.period : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

2.1.3. Test case dm_ref_fo_di_insert: Insert a footnote description

Message: dm_ref_fo_di_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_footnote_type_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 footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 2:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACD*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

query space field = *FOOTNOTE.FOOTNOTE*
REF.Footnote id, operator = =, constant = *01000*.

Transaction 3:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 4:

- Message 1: Insert an unstable footnote with footnote type id = *AAμÂμ*, footnote id = *k*, start date = *2008/02*:
 - description period 1: start date = *2008/Feb*:
 - description 1: language id = *EN1*, description = *English Description*.
 - description 2: language id = *FR2*, description = *French Description*.
 - description 3: language id = *nl*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*, 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 footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *English Description*.

Transaction 7:

- Message 1: Insert an unstable footnote with footnote type id = XXX, footnote id = 01000, start 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*.

Transaction 8:

- Message 1: Insert an unstable footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01:
 - description period 1: start date = 2009-06-01:
 - 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 footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01, 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*.
 - description period 2: start date = 2008-06-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 10:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *01100*, start date = *2008-02-01*, end date = *2008-12-01*:
 - 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*.
 - 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*.

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on footnote.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on footnote.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 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 footnote.ref : VR-FO-4: The referenced footnote type must exist.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on footnote.ref : OK.

Reply to transaction 10:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.
- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Message: dm_ref_fo_di_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_footnote_type_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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 1:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 2:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = *=*, constant = *01000*.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *01000*, start 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*.

Transaction 4:

- Message 1: Insert a stable footnote with footnote type id = *ACÁμ*, footnote id = *k*, start date = *2008/02*:
 - description period 1: start date = *2008/Feb*:
 - description 1: language id = *EN1*, description = *English Description*.
 - description 2: language id = *FR2*, description = *French Description*.
 - description 3: language id = *nl*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert a stable footnote with footnote type id

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

= ACD, footnote id = 01100, start date = 2008-02-01, 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 footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = NL, description = *Dutch Description*.

Transaction 7:

- Message 1: Insert a stable footnote with footnote type id = XXX, footnote id = 01000, start 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*.

Transaction 8:

- Message 1: Insert a stable footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01:
 - description period 1: start date = 2009-06-01:
 - 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 footnote with footnote type id = ACD, footnote id = 01100, start date = 2008-02-01, end

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

date = 2008-04-01:

- 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 = 2008-06-01:
 - 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 footnote with footnote type id = *ACD*, footnote id = *01100*, start date = 2008-02-01, end date = 2008-12-01:
 - 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*.
 - 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 11:

- Message 1: Insert a stable footnote with footnote type id = *ACI*, footnote id = *01100*, start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 12:

- Message 1: Insert a stable footnote with footnote type id = ACA, footnote id = 01100, start date = 2011-02-01:
 - description period 1: start date = 2011-02-01:
 - 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 footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footnote.ref : VR-FO-1: The combination of footnote type and footnote ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on footnote.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on footnote.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : 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-

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Reply to transaction 7:

- Message 1, on footnote.ref : VR-FO-4: The referenced footnote type must exist.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on description.period.ref : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 10:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.

Reply to transaction 11:

- Message 1, on footnote.ref : VR-FO-8: The footnote type must be stable when the footnote is stable.

Reply to transaction 12:

- Message 1, on footnote.ref : VR-FO-9: The validity period of the footnote must be enclosed by the validity period of the related footnote type.

2.1.4. Test case dm_ref_fo_update: Update of a footnote

Message: dm_ref_fo_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_footnote_type_setup.xml* message should be successfully

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *10000*, start 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*.

Transaction 2:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *10100*, start 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*.

Transaction 3:

- Message 1: Insert an unstable footnote with footnote type id = *ACF*, footnote id = *10000*, start 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*.

Transaction 4:

- Message 1: Insert an unstable footnote with footnote type id = *ACA*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 footnote with footnote type id = *ACD*, footnote id = *11000*, start 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*.

Transaction 6:

- Message 1: Insert an unstable footnote with footnote type id = *ACF*, footnote id = *10100*, start 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*.

Transaction 7:

- Message 1: Insert an unstable footnote with footnote type id = *ACA*, footnote id = *10100*, start 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*.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Insert a stable footnote with footnote type id = *ATN*, footnote id = *10400*, start 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*.

Transaction 9:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100101010*, productline suffix = *60*, start date = *2007-01-02*, goods nomenclature sid = *8*:
 - description period 1: start date = *2007-01-02*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - indent 1: indent sid = *5*, start date = *2007-01-02*, indent number = *1*.
 - derivation 1: goods nomenclature id = *0100000000*, productline suffix = *00*, start date = *2007-01-01*.
 - associated footnote 1: footnote type id = *ATN*, footnote id = *10400*, start date = *2008-02-01*, end date = *2009-06-01*.

statistical indicator = *1*.

Transaction 10:

- Message 1: Insert an unstable footnote with footnote type id = *ERN*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 11:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *777*, additional code type id = *A*, export refund code = *111*, productline suffix = *80*, start date = *2008-02-01*, end date = *2009-01-01*:
 - 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*.
 - associated footnote 1: footnote type id = *ERN*, footnote id = *13000*, start date = *2008-02-01*, end date = *2009-01-01*.
 - indent 1: indent sid = *10*, start date = *2008-02-01*, indent number = *10*.

Transaction 12:

- Message 1: Insert a stable footnote with footnote type id = *ERN*, footnote id = *13100*, 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*.

Transaction 13:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *778*, additional code type id = *B*, export refund code = *111*, productline

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

suffix = 80, start date = 2008-01-01, end date = 2009-01-01:

- 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*.
- associated footnote 1: footnote type id = *ERN*, footnote id = *13100*, start date = 2008-01-01, end date = 2009-01-01.
- indent 1: indent sid = *11*, start date = 2008-01-01, indent number = *11*.

Transaction 14:

- Message 1: Insert a stable footnote with footnote type id = *FTA*, footnote id = *13200*, start 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*.

Transaction 15:

- Message 1: Insert an unstable measure with measure type id = *001*, geographical area id = *FR*, geographical area sid = *1*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = 2008-01-01, reduction indicator = *1*, start date = 2008-01-01, measure sid = *3*, end date = 2009-01-01, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - associated footnote 1: footnote type id = *FTA*, footnote id = *13200*.

Transaction 16:

- Message 1: Insert a stable footnote with footnote type id = *FTA*, footnote id = *13300*, start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 17:

- Message 1: Insert a stable legal regulation with regulation id = R0801011, published date = 2000-01-01, official journal number = 1, official journal page = 1.
- Message 2: Insert a stable regulation role type with regulation role type id = 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*.
- Message 3: Insert a stable base regulation with regulation id = R0801011, regulation role type = 2, start date = 1980-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 4: Insert a stable measure type series with measure type series id = BB, 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.
- Message 5: Insert a stable measure type with measure type id = 002, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

measure type series id = *BB*:

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

trade movement code = *1*, measure explosion level = *10*, measure component applicable code = *0*, order number capture code = *2*, accepted via input bridge = *1*, priority code = *1*.

- Message 6: Insert a stable country with country id = *AU*, start date = *1900-01-01*, area code = *0*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *Description*.
 - description 2: language id = *FR*, description = *Description*.
 - description 3: language id = *NL*, description = *Omschrijving*.
- Message 7: Insert a stable measure with measure type id = *002*, geographical area id = *AU*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-02-01*, start date = *2008-02-01*, measure sid = *444*, end date = *2009-01-01*, regulation id = *R0801011*, regulation role type = *2*, regulation id = *R0801011*, regulation role type = *2*:
 - associated footnote 1: footnote type id = *FTA*, footnote id = *13300*.

Transaction 18:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *13400*, start 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*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 19:

- Message 1: Insert an unstable additional code with additional code type id = C, additional code id = 001, start date = 2008-01-01, additional code sid = 1, end date = 2009-01-01:
 - 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*.
 - associated footnote 1: footnote type id = ACD, footnote id = 13400, start date = 2008-02-01, end date = 2009-01-01.

Transaction 20:

- Message 1: Insert a stable footnote with footnote type id = ACD, footnote id = 13500, start 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*.

Transaction 21:

- Message 1: Insert a stable additional code with additional code type id = C, additional code id = 002, start date = 2008-01-01, additional code sid = 6, end date = 2009-01-01:
 - 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*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- associated footnote 1: footnote type id = *ACD*, footnote id = *13500*, start date = *2008-02-01*, end date = *2009-01-01*.

Transaction 22:

- Message 1: Insert an unstable footnote with footnote type id = *MUR*, footnote id = *13600*, start 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*.

Transaction 23:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *01*, start date = *2008-01-01*, end date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *1*, start date = *2008-01-01*, 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*.
 - associated footnote 1: footnote type id = *MUR*, footnote id = *13600*, start date = *2008-02-01*, end date = *2009-01-01*.

Transaction 24:

- Message 1: Insert a stable footnote with footnote type id = *MUR*, footnote id = *13700*, start 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*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *Dutch Description*.

Transaction 25:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 02, start date = 2008-01-01, end date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2008-01-01, 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*.
 - associated footnote 1: footnote type id = MUR, footnote id = 13700, start date = 2008-02-01, end date = 2009-01-01.

Transaction 26:

- Message 1: Insert an unstable footnote with footnote type id = DFA, footnote id = 13800, start 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*.

Transaction 27:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = DFA, footnote id = 13800, start date = 2008-01-01, end date = 2009-01-01, condition code = AA, action code = 302.

Transaction 28:

- Message 1: Insert a stable footnote with footnote type id = DFA, footnote id = 13900, start date = 2008-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 29:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *DFA*, footnote id = *13900*, start date = *2008-01-01*, end date = *2009-01-01*, condition code = *AA*, action code = *302*.

Transaction 30:

- Message 1: Insert an unstable footnote with footnote type id = *ACI*, footnote id = *10000*, start 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*.

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Reply to transaction 27: Status ok

Reply to transaction 28: Status ok

Reply to transaction 29: Status ok

Reply to transaction 30: Status ok

Message: **dm_ref_fo_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_footnote_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 footnote with footnote type id = *ATN*, footnote id = *13131*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 13131*.
 - description 2: language id = *FR*, description = *French Description of 13131*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- description 3: language id = *NL*,
description = *Dutch Description of 13131*.

Transaction 2:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *13132*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of 13132*.
 - description 2: language id = *FR*,
description = *French Description of 13132*.
 - description 3: language id = *NL*,
description = *Dutch Description of 13132*.

Transaction 3:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *2200202021*, productline suffix = *70*, start date = *2007-01-01*, goods nomenclature sid = *208*:
 - 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 = *8*, start date = *2007-01-01*,
indent number = *1*.
 - associated footnote 1: footnote type id = *ATN*,
footnote id = *13131*, start date = *2008-01-01*.
statistical indicator = *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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Reply to transaction 3: Status ok.

Message: **dm_ref_fo_update_01.xml**

Precondition: Make sure the dm_ref_fo_update_setup_01.xml and dm_ref_fo_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 footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 2:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = *=*, constant = *10000*.

Transaction 3:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *22200*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

updated.

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

Transaction 4:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2008-02-01*, end date = *2007-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.

Transaction 5:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.

Transaction 6:

- Message 1: Update the unstable footnote with footnote type id = *AXX*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English Description*
updated.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 7:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2009-01-01*:
 - 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.*

Transaction 8:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2008-02-01*, end date = *2008-04-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description period 2: start date = *2008-06-01*:
 - 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

updated.

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

Transaction 9:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2008-02-01*, end date = *2008-12-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.
 - description period 2: start date = *2008-02-01*:
 - 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.

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on start.date : VR-PERIOD-1: Period end

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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 footnote.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 footnote.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on footnote.ref : OK.

Reply to transaction 9:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.

Message: dm_ref_fo_update_02.xml

Precondition: Make sure the dm_ref_fo_update_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = ACD, footnote id = 10000, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - 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.

Transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = =, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = =, constant = *10000*.

Transaction 3:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *24100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 4:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *11000*, start date = *2008-02-01*, end date = *2007-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 5:

- Message 1: Update the stable footnote with footnote type id = *AXX*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *French Description updated.*

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

Transaction 6:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *11000*, start date = *2008-02-01*:
 - description period 1: start date = *2009-01-01*:
 - 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.*

Transaction 7:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *11000*, start date = *2008-02-01*, end date = *2008-04-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description period 2: start date = *2008-06-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *Dutch Description updated.*

Transaction 8:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *11000*, start date = *2008-02-01*, end date = *2008-12-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description period 2: start date = *2008-02-01*:
 - 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.*

Transaction 9:

- Message 1: Update the stable footnote with footnote type id = *ACI*, footnote id = *10000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Update the stable footnote with footnote type id = *ACA*, footnote id = *10000*, start date = *2008-02-01*, end date = *2011-04-04*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 11:

- Message 1: Update the stable footnote with footnote type id = *ERN*, footnote id = *13000*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 12:

- Message 1: Update the stable footnote with footnote type id = *FTA*, footnote id = *13200*, start date = *2008-01-02*, end date = *2009-01-01*:
 - description period 1: start date = *2008-01-02*:
 - 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

updated.

Transaction 13:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13400*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 14:

- Message 1: Update the stable footnote with footnote type id = *MUR*, footnote id = *13600*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 15:

- Message 1: Update the stable footnote with footnote type id = *DFA*, footnote id = *13800*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footnote.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-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on description.period.ref : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 8:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.

Reply to transaction 9:

- Message 1, on footnote.ref : VR-FO-8: The footnote type must be stable when the footnote is stable.

Reply to transaction 10:

- Message 1, on footnote.ref : VR-FO-9: The validity period of the footnote must be enclosed by the validity period of the related footnote type.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Reply to transaction 11:

- Message 1, on footnote.ref : VR-FO-11: The validity period of the footnote must be enclosed by the validity period of the Export Refund Nomenclature footnote association. Rule applicable for footnotes having Export Refund Nomenclature as footnote type.

Reply to transaction 12:

- Message 1, on footnote.ref : VR-FO-12: The validity period of the footnote must be enclosed by the validity period of the Measure footnote association. Rule applicable for footnotes having CN Measure or Other Measures as footnote type.

Reply to transaction 13:

- Message 1, on footnote.ref : VR-FO-13: The validity period of the footnote must be enclosed by the validity period of the Additional Code footnote association. Rule applicable for footnotes having Additional Code as footnote type.

Reply to transaction 14:

- Message 1, on footnote.ref : VR-FO-14: The validity period of the footnote must be enclosed by the validity period of the Meursing Heading footnote association. Rule applicable for footnotes having Meursing as footnote type.

Reply to transaction 15:

- Message 1, on footnote.ref : VR-FO-15: The validity period of the footnote must be enclosed by the validity period of the Dynamic footnote association. Rule applicable for footnotes having Dynamic Footnotes as footnote type.

Message: **dm_ref_fo_update_03.xml**

Precondition: Make sure the *dm_ref_fo_update_02.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

updated.

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

Transaction 2:

- Message 1: Request the footnote with operator = *AND*,
query space field = *FOOTNOTE.FOOTNOTE*
REF.Footnote type id, operator = *=*, constant = *ACD*,
query space field = *FOOTNOTE.FOOTNOTE*
REF.Footnote id, operator = *=*, constant = *10100*.

Transaction 3:

- Message 1: Update the stable footnote with footnote type
id = *ACD*, footnote id = *10100*, start date = *2008-02-01*,
end date = *2007-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 4:

- Message 1: Update the stable footnote with footnote type
id = *AXX*, footnote id = *10100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-02-01*:
 - description period 1: start date = *2009-01-01*:
 - 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.*

Transaction 6:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-02-01*, end date = *2008-04-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description period 2: start date = *2008-06-01*:
 - 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.*

Transaction 7:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-02-01*, end date = *2008-12-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- description period 1: start date = 2008-02-01:
 - 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.*
- description period 2: start date = 2008-02-01:
 - 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.*

Transaction 8:

- Message 1: Update the stable footnote with footnote type id = ACA, footnote id = 10100, start date = 2008-02-01, end date = 2011-04-04:
 - description period 1: start date = 2008-02-01:
 - 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.*

Transaction 9:

- Message 1: Update the stable footnote with footnote type id = ATN, footnote id = 10400, start date = 2008-02-01, end date = 2009-01-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *English Description updated.*

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

Transaction 10:

- Message 1: Update the stable footnote with footnote type id = *ERN*, footnote id = *13100*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 11:

- Message 1: Update the stable footnote with footnote type id = *FTA*, footnote id = *13300*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 12:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13500*, start date = *2008-02-01*, end date = *2008-05-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- description period 1: start date = 2008-02-01:
 - 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.*

Transaction 13:

- Message 1: Update the stable footnote with footnote type id = *MUR*, footnote id = *13700*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = 2008-02-01:
 - 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.*

Transaction 14:

- Message 1: Update the stable footnote with footnote type id = *DFA*, footnote id = *13900*, start date = *2008-02-01*, end date = *2008-05-01*:
 - description period 1: start date = 2008-02-01:
 - 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.*

Expected output:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Reply to transaction 1:

- Message 1, on footnote.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.
- Message 1, on description.period : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on description.period.ref : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Reply to transaction 7:

- Message 1, on start.date : VR-FO-7: No two associated description periods for the same footnote may have the same start date.

Reply to transaction 8:

- Message 1, on footnote.ref : VR-FO-9: The validity period of the footnote must be enclosed by the validity period of the related footnote type.

Reply to transaction 9:

- Message 1, on footnote.ref : VR-FO-10: The validity period of the footnote must be enclosed by the validity period of the Goods Nomenclature footnote association. Rule applicable for footnotes having CN Nomenclature or TARIC Nomenclature as footnote type.

Reply to transaction 10:

- Message 1, on footnote.ref : VR-FO-11: The validity period of the footnote must be enclosed by the validity period of the Export Refund Nomenclature footnote association. Rule applicable for footnotes having Export Refund Nomenclature as footnote type.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Reply to transaction 11:

- Message 1, on footnote.ref : VR-FO-12: The validity period of the footnote must be enclosed by the validity period of the Measure footnote association. Rule applicable for footnotes having CN Measure or Other Measures as footnote type.

Reply to transaction 12:

- Message 1, on footnote.ref : VR-FO-13: The validity period of the footnote must be enclosed by the validity period of the Additional Code footnote association. Rule applicable for footnotes having Additional Code as footnote type.

Reply to transaction 13:

- Message 1, on footnote.ref : VR-FO-14: The validity period of the footnote must be enclosed by the validity period of the Meursing Heading footnote association. Rule applicable for footnotes having Meursing as footnote type.

Reply to transaction 14:

- Message 1, on footnote.ref : VR-FO-15: The validity period of the footnote must be enclosed by the validity period of the Dynamic footnote association. Rule applicable for footnotes having Dynamic Footnotes as footnote type.

Message: dm_ref_fo_update_05.xml

Precondition: Make sure the *dm_ref_fo_update_03.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = ATN, footnote id = 13131, start date = 2008-01-01, end date = 2009-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of 13131.*
 - description 2: language id = FR, description = *French Description of 13131.*
 - description 3: language id = NL,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

description = *Dutch Description of 13131.*

Transaction 2:

- Message 1: Update the stable footnote with footnote type id = *ATN*, footnote id = *13131*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 13131.*
 - description 2: language id = *FR*, description = *French Description of 13131.*
 - description 3: language id = *NL*, description = *Dutch Description of 13131.*

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : VR-FO-10: The validity period of the footnote must be enclosed by the validity period of the Goods Nomenclature footnote association. Rule applicable for footnotes having CN Nomenclature or TARIC Nomenclature as footnote type.

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

Message: **dm_ref_fo_update_06.xml**

Precondition: Make sure the *dm_ref_fo_update_05.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *22211*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 22211*.
 - description 2: language id = *FR*, description = *French Description of 22211*.
 - description 3: language id = *NL*, description = *Dutch Description of 22211*.

Transaction 2:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13132*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 13132*.
 - description 2: language id = *FR*, description = *French Description of 13132*.
 - description 3: language id = *NL*, description = *Dutch Description of 13132*.
- Message 1, on description.period : VR-FO-6: The start date of the description period must be enclosed by the validity period of the footnote.

Expected output:

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

Reply to transaction 1:

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

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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

2.1.5. Test case dm_ref_fo_delete: Deletion of a footnote

Message: dm_ref_fo_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_footnote_type_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 footnote with footnote type id = *ACD*, footnote id = *10500*, start 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*.

Transaction 2:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *10600*, start 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*.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ATN*, footnote id = *10700*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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 goods nomenclature with goods nomenclature id = *0100101010*, productline suffix = *70*, start date = *2007-01-02*:
 - description period 1: start date = *2007-01-02*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.
 - indent 1: indent sid = *77*, start date = *2007-01-02*, indent number = *1*.
 - derivation 1: goods nomenclature id = *0100000000*, productline suffix = *00*, start date = *2007-01-01*.
 - associated footnote 1: footnote type id = *ATN*, footnote id = *10700*, start date = *2008-02-02*, end date = *2008-02-20*.

statistical indicator = *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.

Message:

dm_ref_fo_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_footnote_type_setup.xml* message should be successfully

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable footnote with footnote type id = *ERN*, footnote id = *44332*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 44332*.
 - description 2: language id = *FR*, description = *French Description of 44332*.
 - description 3: language id = *NL*, description = *Dutch Description of 44332*.

Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *778*, additional code type id = *B*, export refund code = *111*, productline suffix = *80*, start date = *2008-01-01*, end date = *2009-01-01*:
 - 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*.
 - associated footnote 1: footnote type id = *ERN*, footnote id = *44332*, start date = *2008-01-01*, end date = *2009-01-01*.
 - indent 1: indent sid = *111*, start date = *2008-01-01*, indent number = *1*.

Transaction 3:

- Message 1: Insert a stable footnote type with footnote type id = *OAP*, start date = *2000-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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 4:

- Message 1: Insert a stable footnote with footnote type id = *OAP*, footnote id = *44333*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 44333*.
 - description 2: language id = *FR*, description = *French Description of 44333*.
 - description 3: language id = *NL*, description = *Dutch Description of 44333*.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0801011*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.
- Message 2: Insert a stable regulation role type with regulation role type id = *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*.
- Message 3: Insert a stable base regulation with regulation id = *R0801011*, regulation role type = *2*, start date = *1980-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 4: Insert a stable measure type series with measure type series id = *BB*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

English Description.

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

measure type combination = *0*.

- Message 5: Insert a stable measure type with measure type id = *002*, 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 = *BB*:

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

trade movement code = *1*, measure explosion level = *10*, measure component applicable code = *0*, order number capture code = *2*, accepted via input bridge = *1*, priority code = *1*.

- Message 6: 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*, description = *Description.*
 - description 2: language id = *FR*, description = *Description.*
 - description 3: language id = *NL*, description = *Omschrijving.*

- Message 7: Insert a stable measure with measure type id = *002*, geographical area id = *FR*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *1*, regulation id = *R0801011*, regulation role type = *2*:

- associated footnote 1: footnote type id = *OAP*, footnote id = *44333*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 6:

- Message 1: Insert a stable footnote type with footnote type id = *CAP*, 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*.

application code = 5.

Transaction 7:

- Message 1: Insert a stable footnote with footnote type id = *CAP*, footnote id = *44334*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 44334*.
 - description 2: language id = *FR*, description = *French Description of 44334*.
 - description 3: language id = *NL*, description = *Dutch Description of 44334*.

Transaction 8:

- Message 1: Insert a stable additional code with additional code type id = *C*, additional code id = *721*, start date = *2008-01-01*, additional code sid = *1*, end date = *2009-01-01*:
 - 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*.
 - associated footnote 1: footnote type id = *CAP*, footnote id = *44334*, start date = *2008-01-01*, end date = *2008-12-31*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 9:

- Message 1: Insert a stable footnote type with footnote type id = *DAP*, 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*.

application code = 9.

Transaction 10:

- Message 1: Insert a stable footnote with footnote type id = *DAP*, footnote id = *44335*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 44335*.
 - description 2: language id = *FR*, description = *French Description of 44335*.
 - description 3: language id = *NL*, description = *Dutch Description of 44335*.

Transaction 11:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *DAP*, footnote id = *44335*, start date = *2008-01-01*, condition code = *AA*, action code = *302*.

Transaction 12:

- Message 1: Insert a stable footnote type with footnote type id = *MAP*, 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*.

application code = 8.

Transaction 13:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Insert a stable footnote with footnote type id = *MAP*, footnote id = *44336*, start date = *2008-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of 44336*.
 - description 2: language id = *FR*, description = *French Description of 44336*.
 - description 3: language id = *NL*, description = *Dutch Description of 44336*.

Transaction 14:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *11*, start date = *2008-01-01*, end date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2008-01-01*, 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*.
 - associated footnote 1: footnote type id = *MAP*, footnote id = *44336*, start date = *2008-01-01*, 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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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_fo_delete_01.xml**

Precondition: Make sure the message *dm_ref_fo_delete_setup_01.xml* and *dm_ref_fo_delete_setup_02.xml* have been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10500*.

Transaction 2:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10600*.

Transaction 3:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = =, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = =, constant = *10500*.
- Message 2: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = =, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = =, constant = *10600*.

Transaction 4:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10500*.

Transaction 5:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10600*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 6:

- Message 1: Delete the footnote with footnote type id = *ATN*, footnote id = *10700*.

Expected output:

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

Transaction 1:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10500*.

Transaction 2:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10600*.

Transaction 3:

- Message 1: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = =, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = =, constant = *10500*.
- Message 2: Request the footnote with operator = *AND*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote type id*, operator = =, constant = *ACD*, query space field = *FOOTNOTE.FOOTNOTE REF.Footnote id*, operator = =, constant = *10600*.

Transaction 4:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10500*.

Transaction 5:

- Message 1: Delete the footnote with footnote type id = *ACD*, footnote id = *10600*.

Transaction 6:

- Message 1: Delete the footnote with footnote type id = *ATN*, footnote id = *10700*.

Message: **dm_ref_fo_delete_02.xml**

Precondition: Make sure the message *dm_ref_fo_delete_01.xml* have been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the footnote with footnote type id = *ERN*, footnote id = *44332*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 2:

- Message 1: Delete the footnote with footnote type id = *OAP*, footnote id = 44333.

Transaction 3:

- Message 1: Delete the footnote with footnote type id = *CAP*, footnote id = 44334.

Transaction 4:

- Message 1: Delete the footnote with footnote type id = *DAP*, footnote id = 44335.

Transaction 5:

- Message 1: Delete the footnote with footnote type id = *MAP*, footnote id = 44336.

Expected output:

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

Reply to transaction 1:

- Message 1, on footnote.ref : VR-FO-18: A footnote cannot be deleted if used in an Export Refund Nomenclature footnote association. Rule applicable for footnotes having Export Refund Nomenclature as footnote type.

Reply to transaction 2:

- Message 1, on footnote.ref : VR-FO-19: A footnote cannot be deleted if used in a Measure footnote association. Rule applicable for footnotes having CN Measure or Other Measures as footnote type.

Reply to transaction 3:

- Message 1, on footnote.ref : VR-FO-20: A footnote cannot be deleted if used in an Additional Code footnote association. Rule applicable for footnotes having Additional Code as footnote type.

Reply to transaction 4:

- Message 1, on footnote.ref : VR-FO-21: A footnote cannot be deleted if used in a Dynamic Footnote association. Rule applicable for footnotes having Dynamic Footnote as footnote type.

Reply to transaction 5:

- Message 1, on footnote.ref : VR-FO-22: A footnote cannot be deleted if used in a Meursing table.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

2.1.6. Test case **dm_ref_fo_di_update**: Update of a footnote description

Message: **dm_ref_fo_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_footnote_type_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 footnote with footnote type id = *ACD*, footnote id = *13000*, start 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*.

Transaction 2:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *13100*, start 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*.

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_fo_di_update_01.xml**

Precondition: Make sure the *dm_ref_fo_di_update_setup_01.xml* message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated*.
 - description 2: language id = *FR*, description = *-French*.
 - description 3: language id = *NL*, description = *Dutch Description updated*.

Transaction 2:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *'English Description updated'*.
 - description 2: language id = *FR*, description = *"french"*.
 - description 3: language id = *NL*, description = *Dutch Description updated*.

Transaction 3:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated*.
 - description 2: language id = *FR*, description = *Test with a multilingual text description which contains more than 1500 characters:*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 4:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *FR*, description = *Second French descrp.*
 - description 4: language id = *NL*, description = *Dutch Description updated.*

Transaction 5:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description 4: language id = *XX*, description = *XX Description for unexistent language.*

Transaction 6:

- Message 1: Update the unstable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = /engl.
 - description 2: language id = FR, description = *French Description updated/*.
 - description 3: language id = NL, description = *Dutch Description updated*.

Transaction 7:

- Message 1: Update the unstable footnote with footnote type id = ACD, footnote id = 13000, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - 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*.

Transaction 8:

- Message 1: Update the unstable footnote with footnote type id = ACD, footnote id = 13000, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:
 - description 1: language id = EN, description = *l.*
 - description 2: language id = FR, description = *l.*
 - description 3: language id = NL, description = *l;*

Transaction 9:

- Message 1: Update the unstable footnote with footnote type id = ACD, footnote id = 13000, start date = 2008-02-01:
 - description period 1: start date = 2008-02-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

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 footnote.ref : 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-9: Description text cannot start or end with white space: no blank or tab

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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 '|'.
- 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-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-10: Description text cannot end with double point ':|'.
- 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-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_fo_di_update_02.xml

Precondition: Make sure the dm_ref_fo_di_update_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *-French with dash.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

Transaction 2:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *'English Description updated'.*
 - description 2: language id = *FR*, description = *"double quote.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

Transaction 3:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *Test with a multilingual text description which contains more than 1500....*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *FR*, description = *Second French descrp test.*
 - description 4: language id = *NL*, description = *Dutch Description updated.*

Transaction 5:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description 4: language id = *XX*, description = *XX Description for unexistent language.*

Transaction 6:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = */english.*
 - description 2: language id = *FR*, description = *French Description updated/.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Transaction 7:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*

Transaction 8:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l..*
 - description 2: language id = *FR*, description = *l.*
 - description 3: language id = *NL*, description = *l;*.

Transaction 9:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13000*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l:.*
 - description 2: language id = *FR*, description = *l,.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

output:

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 footnote.ref : 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-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 '|'.
- Message 1, on description : VR-DI-11: Description text

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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-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-10: Description text cannot end with double point ':'.
- 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-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_fo_di_update_03.xml**

Precondition: Make sure the *dm_ref_fo_di_update_02.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description updated*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- description 2: language id = *FR*,
description = *-description with dash*.
- description 3: language id = *NL*,
description = *Dutch Description updated*.

Transaction 2:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English Description updated*.
 - description 2: language id = *FR*,
description = *"double quote*.
 - description 3: language id = *NL*,
description = *'Dutch Description updated'*.

Transaction 3:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English Description updated*.
 - description 2: language id = *FR*,
description = *Test with a multilingual text description which contains more than 1500 characters*:
 - description 3: language id = *NL*,
description = *Dutch Description updated*.

Transaction 4:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*,
description = *English Description updated*.
 - description 2: language id = *FR*,
description = *French Description*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

updated.

- description 3: language id = *FR*,
description = *Second French Description.*
- description 4: language id = *NL*,
description = *Dutch Description updated.*

Transaction 5:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - 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.*
 - description 4: language id = *XX*,
description = *XX Description for unexistent language.*

Transaction 6:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start 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 updated.*
 - description 3: language id = *NL*,
description = *Dutch Description updated/.*

Transaction 7:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

- 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*.

Transaction 8:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l.*
 - description 2: language id = *FR*, description = *l.*
 - description 3: language id = *NL*, description = *l.*

Transaction 9:

- Message 1: Update the stable footnote with footnote type id = *ACD*, footnote id = *13100*, start date = *2008-02-01*:
 - description period 1: start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l.*
 - description 2: language id = *FR*, description = *l.*
 - description 3: language id = *NL*, description = *Dutch Description updated*.

Transaction 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:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE	

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

Reply to transaction 8:

- 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 '|'.
- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- 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-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-10: Description text cannot end with double point ':
- 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-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. Language

2.2.1. Test case `init_ref_language_setup`: Insertion of Language reference data

Message: `init_ref_languages.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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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.*

Expected output:

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

Reply to transaction 1: Status ok.

2.2.2. Test case dm_ref_la_insert: Insertion of a language

Message: dm_ref_la_insert_01.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.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 language with language id = *DD*, 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: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = *=*, constant = *DD*.

Transaction 3:

- Message 1: Insert an unstable language with language id = *DD*, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

French Description.

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

Transaction 4:

- Message 1: Insert an unstable language with language id = *SS*, start date = *01/01/2008*, end date = *01/01/2008*:
 - 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 language with language id = *FF*, 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.*

Transaction 6:

- Message 1: Insert an unstable language with language id = *FF*, start date = *2008-01-01*:
 - description 1: language id = *FR*, description = *French Description.*
 - description 2: 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 language.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on language.ref : VR-LA-1: The language must be unique in the universe of the stable and unstable data.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Reply to transaction 4:

- 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 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_la_insert_02.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.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 language with language id = *RR*, 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: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = =, constant = *RR*.

Transaction 3:

- Message 1: Insert a stable language with language id = *RR*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.
- description 4: language id = *RR*, description = *RR Description*.

Transaction 4:

- Message 1: Insert a stable language with language id = *SS*, start date = *01/01/2008*, end date = *08/01/01*:
 - 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 4: language id = *RR*, description = *RR Description*.

Transaction 5:

- Message 1: Insert a stable language with language id = *GG*, 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*.
 - description 4: language id = *RR*, description = *RR Description*.

Transaction 6:

- Message 1: Insert a stable language with language id = *GG*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *NL*, description = *Dutch Description*.

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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- Message 1, on language.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on language.ref : VR-LA-1: The language 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 end.date : 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 description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Message: **dm_ref_la_insert_03.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.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 language with language id = ZZ, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Dutch Description.

Transaction 5:

- Message 1: Insert an unstable language with language id = ZZ, 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 an unknown language.*

Transaction 6:

- Message 1: Insert an unstable language with language id = ZZ, 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 language with language id = ZZ, 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 language with language id = ZZ, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Dutch kg; Description.

Transaction 9:

- Message 1: Insert an unstable language with language id = ZZ, 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, 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 '|'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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_la_insert_04.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.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 language with language id = ZZ, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Dutch Description.

Transaction 2:

- Message 1: Insert a stable language with language id = ZZ, 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 language with language id = ZZ, start date = 2008-02-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French DescriptionFrench Description.*
 - description 3: language id = NL, description = *Dutch Description.*

Transaction 4:

- Message 1: Insert a stable language with language id = ZZ, start date = 2008-02-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description1.*
 - description 3: language id = FR, description = *French Description2.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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

Transaction 5:

- Message 1: Insert a stable language with language id = *ZZ*, 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 an unknown language*.

Transaction 6:

- Message 1: Insert a stable language with language id = *ZZ*, 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 language with language id = *ZZ*, 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 language with language id = *ZZ*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English kg. Description*.
 - description 2: language id = *FR*, description = *French kg Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- description 3: language id = *NL*, description = *Dutch kg; Description.*

Transaction 9:

- Message 1: Insert a stable language with language id = *ZZ*, 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.*

Transaction 10:

- Message 1: Insert a stable language with language id = *ZZ*:
 - description 1: language id = *EN*, description = *English Description of ZZ.*
 - description 2: language id = *FR*, description = *French Description of ZZ.*
 - description 3: language id = *NL*, description = *Dutch Description of ZZ.*

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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:

- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

2.2.3. Test case **dm_ref_la_update**: Update of a language

Message: **dm_ref_la_update_setup_01.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.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 language with language id = *UU*, 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 a stable language with language id = *SS*, 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 3:

- Message 1: Insert an unstable language with language id = *UN*, start date = *2008-01-01*:
 - description 1: language id = *EN*.
 - description 2: language id = *FR*.
 - description 3: language id = *NL*.
 - description 4: language id = *SS*.

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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Message: **dm_ref_la_update_01.xml**

Precondition: Make sure the dm_ref_la_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 language with language id = *UU*, start date = *2008-02-01*:
 - 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.*

Transaction 2:

- Message 1: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = *=*, constant = *UU*.

Transaction 3:

- Message 1: Update the unstable language with language id = *ZZ*, start date = *2008-02-01*:
 - 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.*

Transaction 4:

- Message 1: Update the unstable language with language id = *UU*, start date = *2008-01-01*, end date = *2007-04-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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

Transaction 6:

- Message 1: Update the unstable language with language id = *SS*, 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 language.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on language.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 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.

Message:

dm_ref_la_update_02.xml

Precondition:

Make sure the dm_ref_la_update_01.xml message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- 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: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = =, constant = *UU*.

Transaction 3:

- Message 1: Update the unstable language with language id = *ZZ*, 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 4:

- Message 1: Update the stable language with language id = *UN*, start date = *2008-01-01*, end date = *2007-04-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Expected output:

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

Reply to transaction 1:

- Message 1, on language.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- 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_la_update_03.xml**

Precondition: Make sure the dm_ref_la_update_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - 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.*

Transaction 2:

- Message 1: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = *=*, constant = *SS*.

Transaction 3:

- Message 1: Update the stable language with language id = *ZZ*, 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 4:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-01-01*, end date = *2007-04-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- o 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 language.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on language.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:

dm_ref_la_update_04.xml

Precondition:

Make sure the dm_ref_la_update_03.xml message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

Transaction 1: Message 1: Update the stable language with language id = *UU*:

Reply to transaction 1: description 1: language id = *EN*, description = *English Description of UU*.

Reply to transaction 1: description 2: language id = *FR*, description = *French Description of UU*.

Reply to transaction 1: description 3: language id = *NL*, description = *Dutch Description of UU*.

Expected output:

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

Reply to transaction 1:

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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Message: **dm_ref_la_update_05.xml**

Precondition: Make sure the dm_ref_la_update_04.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

Transaction 1: Message 1: Update the stable language with language id = *SS*:

Reply to transaction 1: description 1: language id = *EN*,
description = *English Description of SS*.

Reply to transaction 1: description 2: language id = *FR*,
description = *French Description of SS*.

Reply to transaction 1: description 3: language id = *NL*,
description = *Dutch Description of SS*.

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

Reply to transaction 1:

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.

2.2.4. Test case dm_ref_la_delete: Deletion of a language

Message: **dm_ref_la_delete_01.xml**

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable language with language id = *UU*, 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: Delete the language with language id = *UU*.

Transaction 3:

- Message 1: Insert a stable language with language id = *SS*, 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 4:

- Message 1: Delete the language with language id = *SS*.

Transaction 5:

- Message 1: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = =, constant = *UU*.
- Message 2: Request the language with query space field = *LANGUAGE.LANGUAGE REF.Language id*, operator = =, constant = *SS*.

Transaction 6:

- Message 1: Delete the language with language id = *UU*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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

Reply to transaction 1:

- Message 1, on language.ref : OK.

Reply to transaction 2:

- Message 1, on language.ref : OK.

Reply to transaction 3:

- Message 1, on language.ref : OK.

Reply to transaction 4:

- Message 1, on language.ref : OK.

Reply to transaction 5:

- Message 1 : OK.
- Message 2 : OK.

Reply to transaction 6:

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

Message: **dm_ref_la_delete_02.xml**

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the language with language id = *EN*.

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

Reply to transaction 1: Message 1, on language.ref : VR-LA-2:
The language cannot be deleted if it is used in another data.

2.2.5. Test case **dm_ref_la_di_update: Update of a language description**

Message: **dm_ref_la_di_update_setup_01.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init_ref_languages.xml* message should be successfully

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable language with language id = *UU*, start date = *2008-01-01*:
 - description 1: language id = *EN*.
 - description 2: language id = *FR*.
 - description 3: language id = *NL*.

Transaction 2:

- Message 1: Insert an unstable language with language id = *SS*, 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*.

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_la_di_update_01.xml**

Precondition: Make sure the dm_ref_la_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 language with language id = *UU*, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Dutch Description.

Transaction 2:

- Message 1: Update the unstable language with language id = *UU*, 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 language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters:*
 - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 4:

- Message 1: Update the unstable language with language id = *UU*, 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 = *French Description.*
 - description 4: language id = *NL*, description = *Dutch Description.*

Transaction 5:

- Message 1: Update the unstable language with language id = *UU*, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- description 3: language id = *NL*, description = *Dutch Description*.
- description 4: language id = *XX*, description = *XXX Test Description*.

Transaction 6:

- Message 1: Update the unstable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = */*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Update the unstable language with language id = *UU*, 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 language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *;l;*.
 - description 2: language id = *FR*, description = *l*.
 - description 3: language id = *NL*, description = *,l,.*

Transaction 9:

- Message 1: Update the unstable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l:*.
 - description 2: language id = *FR*, description = *kg,.*
 - description 3: language id = *NL*, description = *dutch description*.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

output:

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.

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 '|'.

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-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-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-10: Description text cannot end with double point '!'.
- 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 '|'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- 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_la_di_update_02.xml

Precondition: Make sure the dm_ref_la_di_update_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *-*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English "Description*.
 - description 2: language id = *FR*, description = *"*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 3:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters:*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- Message 1: Update the stable language with language id = *UU*, 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 = *French Description*.
 - description 4: language id = *NL*, description = *Dutch Description*.

Transaction 5:

- Message 1: Update the stable language with language id = *UU*, 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 = *XXX Description*.

Transaction 6:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = */*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Update the stable language with language id = *UU*, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

Transaction 8:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *;l;*
 - description 2: language id = *FR*, description = *l*.
 - description 3: language id = *NL*, description = *,l,.*

Transaction 9:

- Message 1: Update the stable language with language id = *UU*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l.*
 - description 2: language id = *FR*, description = *l.*
 - description 3: language id = *NL*, description = *kg,.*

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.

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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-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-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-10: Description text cannot end with double point ':
- 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-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_la_di_update_03.xml

Precondition: Make sure the dm_ref_la_di_update_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable language with language id = SS, start date = 2008-02-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

English Description.

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

Transaction 2:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English" Description.*
 - description 2: language id = *FR*, description = ".
 - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 3:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters:*
 - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 4:

- Message 1: Update the stable language with language id = *SS*, 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 = *French Description.*
 - description 4: language id = *NL*, description = *Dutch Description.*

Transaction 5:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

- description 2: language id = *FR*, description = *French Description*.
- description 3: language id = *NL*, description = *Dutch Description*.
- description 4: language id = *XX*, description = *XXX Description*.

Transaction 6:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = */*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Update the stable language with language id = *SS*, 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 language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *;l*.
 - description 2: language id = *FR*, description = *l*.
 - description 3: language id = *NL*, description = *,l*.

Transaction 9:

- Message 1: Update the stable language with language id = *SS*, start date = *2008-02-01*:
 - description 1: language id = *EN*, description = *l*.
 - description 2: language id = *FR*, description = *l*.
 - description 3: language id = *NL*, description = *kg*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
LANGUAGE	

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.

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-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-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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

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

Reply to transaction 9:

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

2.3.1. Test case init_ref_dfar_setup: Insertion of Dynamic footnote association rule reference data

Message: **init_ref_dynamic_footnote_association_rule_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 = *2007-01-01*:
 - 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 footnote type with footnote type id = *ACF*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

English Description.

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

application code = 9.

- Message 2: Insert a stable footnote type with footnote type id = *ACG*, 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.*

application code = 9.

- Message 3: Insert a stable footnote type with footnote type id = *ACD*, 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.*

application code = 5.

- Message 4: Insert an unstable footnote type with footnote type id = *ACH*, 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 = 9.

- Message 5: Insert an unstable footnote type with footnote type id = *ACI*, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

French Description.

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

application code = 9.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, 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 = *ACG*, footnote id = *00800*, 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*.
- Message 3: Insert a stable footnote with footnote type id = *ACG*, footnote id = *00900*, start date = *2007-01-01*, end date = *2007-12-31*:
 - 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*.
- Message 4: Insert a stable footnote with footnote type id = *ACD*, footnote id = *10100*, start date = *2007-01-01*:
 - description period 1: start date = *2007-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- 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 5: Insert an unstable footnote with footnote type id = *ACH*, footnote id = *00700*, 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*.
- Message 6: Insert an unstable footnote with footnote type id = *ACI*, footnote id = *00800*, 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*.

Transaction 4:

- Message 1: Insert a stable measure condition code with condition code = *AA*, 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 5:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *A*, start date = *2007-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- 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 6:

- Message 1: Insert a stable measurement unit with measurement unit code = *KGM*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description of measurement unit.*
 - description 2: language id = *FR*, description = *French Description of measurement unit.*
 - description 3: language id = *NL*, description = *Dutch Description of measurement unit.*

measurement unit qualifier code = *A*, start date = *2007-01-01*.

qualifier required = *1*.

- Message 2: Insert an unstable measurement unit with measurement unit code = *KRN*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description of measurement unit.*
 - description 2: language id = *FR*, description = *French Description of measurement unit.*
 - description 3: language id = *NL*, description = *Dutch Description of measurement unit.*

measurement unit qualifier code = *A*, start date = *2007-01-01*.

qualifier required = *1*.

Transaction 7:

- Message 1: Insert a stable measure action code with action code = *001*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *english description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- description 2: language id = *FR*, description = *French description*.
- description 3: language id = *NL*, description = *dutch description*.
- Message 2: Insert a stable measure action code with action code = *003*, start date = *2008-01-01*, end date = *2009-01-31*:
 - 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 certificate type with certificate type code = *A*, 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 9:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2007-01-01*:
 - description period 1: start date = *2007-01-01*, 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 10:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

English Description.

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

measure type combination = 0.

Transaction 11:

- Message 1: 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 = *AA*, 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.
- Reply to transaction 10: Status ok.
- Reply to transaction 11: Status ok.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

2.3.2. Test case **dm_ref_dfar_insert**: Insertion of a dynamic footnote association rule

Message: **dm_ref_dfar_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_dynamic_footnote_association_rule_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 dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Request the dynamic footnote association rule with operator = *AND*, query space field = *DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE REF.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACF*, query space field = *DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE REF.FOOTNOTE REF.Footnote id*, operator = *=*, constant = *00700*.

Transaction 3:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, condition code = *AA*, action code = *003*.

Transaction 4:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *AC!*, footnote id = *007*, start date = *2008/02-01*, end date = *Jan-2000*, condition code = *aa*, action code = *e*.

Transaction 5:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, end date = *2007-12-01*, condition code = *AA*, action code = *001*.

Transaction 6:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *AXX*, footnote id = *00700*, start date = *2008-02-01*, condition code = *AA*, action code = *001*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Transaction 7:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, measure type id = *000999*, condition code = *AA*, action code = *001*.

Transaction 8:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *XX*, action code = *001*.

Transaction 9:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, certificate type code = *X*, certificate code = *999*.

Transaction 10:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *AXX*, condition amount indicator = *1*.

Transaction 11:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *Z*, condition amount indicator = *1*.

Transaction 12:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, condition amount indicator = *1*.

Transaction 13:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *999*.

Transaction 14:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

measurement unit qualifier code = A.

Transaction 15:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, measurement unit code = KGM, measurement unit qualifier code = A, condition amount indicator = 5.

Transaction 16:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = ACG, footnote id = 00900, start date = 2008-02-01, measure type id = 000001, condition code = AA, action code = 001, certificate type code = A, certificate code = CE1, measurement unit code = KGM, measurement unit qualifier code = A, condition amount indicator = 0.

Transaction 17:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, measure type id = 000001, condition code = AA, action code = 001, certificate type code = A, certificate code = CE1, measurement unit code = KGM, measurement unit qualifier code = A, condition amount indicator = 0.

Transaction 18:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2007-01-01, end date = 2008-04-01, condition code = AA, action code = 003.

Expected output:

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

Reply to transaction 1:

- Message 1, on dynamic.footernote.association.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on footernote.ref : VR-DFAR-1: The combination footernote type + footernote code must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on footernote.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- 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 condition.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on action.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 footnote.ref : 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 footnote.ref : 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 footnote.ref : VR-DFAR-3: The referenced footnote must exist and have a footnote type with application code equal to 'dynamic footnote'.
- Message 1, on footnote.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on footnote.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 7:

- Message 1, on measure.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 1, on measure.type.ref : VR-DFAR-4: The referenced measure type must exist.

Reply to transaction 8:

- Message 1, on measure.condition.code.ref : VR-DFAR-5: The referenced condition code must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- Message 1, on certificate.ref : 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 certificate.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 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.
- Message 1, on certificate.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.type.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 10:

- Message 1, on measurement.unit.ref : 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 measurement.unit.ref : VR-DFAR-7: The referenced measurement unit must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.
- Message 1, on measurement.unit.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 11:

- Message 1, on measurement.unit.qualifier.ref : 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 measurement.unit.ref : VR-DFAR-8: The referenced combination measurement unit + measurement unit qualifier must exist.
- Message 1, on measurement.unit.qualifier.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 12:

- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Reply to transaction 13:

- Message 1, on measure.action.code.ref : VR-DFAR-10:
The referenced action code must exist.
- Message 1, on measure.action.code.ref : VR-DFAR-12:
The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 14:

- Message 1, on measurement.unit.ref : VR-DFAR-13: The amount indicator and the measurement unit must be both filled in or both empty.

Reply to transaction 15:

- Message 1, on condition.amount.indicator : ERROR:
cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 16:

- Message 1, on dynamic.footnote.association.rule.ref :
OK.

Reply to transaction 17:

- Message 1, on dynamic.footnote.association.rule.ref :
VR-DFAR-11: The validity period of the association rule must not overlap any other association rule with the same measure type + condition type + certificate type + certificate code + amount indicator + measurement unit + measurement unit qualifier + action code.

Reply to transaction 18:

- Message 1, on measure.action.code.ref : VR-DFAR-12:
The validation period of the association rule must be spanned by the validity period of all referenced data.

Message: **dm_ref_dfar_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_dynamic_footnote_association_rule_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 dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, end date = *2008-01-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, condition code = *AA*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

action code = 001.

Transaction 3:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = AXX, footnote id = 00700, start date = 2008-02-01, condition code = AA, action code = 001.

Transaction 4:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, measure type id = 000999, condition code = AA, action code = 001.

Transaction 5:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = XX, action code = 001.

Transaction 6:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, certificate type code = X, certificate code = 999.

Transaction 7:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, measurement unit code = AXX, condition amount indicator = 1.

Transaction 8:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, measurement unit code = KGM, measurement unit qualifier code = Z, condition amount indicator = 1.

Transaction 9:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, measurement unit code = KGM, condition amount indicator = 1.

Transaction 10:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

action code = 999.

Transaction 11:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*.

Transaction 12:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount indicator = *5*.

Expected output:

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

Reply to transaction 1:

- 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 2:

- Message 1, on dynamic.footnote.association.rule.ref : OK.

Reply to transaction 3:

- Message 1, on footnote.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 1, on footnote.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 1, on footnote.ref : VR-DFAR-3: The referenced footnote must exist and have a footnote type with application code equal to 'dynamic footnote'.

Reply to transaction 4:

- Message 1, on measure.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 1, on measure.type.ref : VR-DFAR-4: The referenced measure type must exist.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- Message 1, on measure.condition.code.ref : VR-DFAR-5: The referenced condition code must exist.

Reply to transaction 6:

- Message 1, on certificate.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 1, on certificate.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 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.

Reply to transaction 7:

- Message 1, on measurement.unit.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 1, on measurement.unit.ref : VR-DFAR-7: The referenced measurement unit must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

Reply to transaction 8:

- Message 1, on measurement.unit.qualifier.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 1, on measurement.unit.ref : VR-DFAR-8: The referenced combination measurement unit + measurement unit qualifier must exist.

Reply to transaction 9:

- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

Reply to transaction 10:

- Message 1, on measure.action.code.ref : VR-DFAR-10: The referenced action code must exist.

Reply to transaction 11:

- Message 1, on measurement.unit.ref : VR-DFAR-13: The amount indicator and the measurement unit must be both filled in or both empty.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Reply to transaction 12:

- Message 1, on condition.amount.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

2.3.3. Test case dm_ref_dfar_update: Update of a dynamic footnote association rule

Message: dm_ref_dfar_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_dynamic_footnote_association_rule_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 dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-01-01*, measure type id = *000001*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE1*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount 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.

Message: dm_ref_dfar_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_dynamic_footnote_association_rule_setup.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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Transaction 1:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACI*, footnote id = *00800*, start date = *2008-02-01*, measure type id = *000001*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CEI*, measurement unit code = *KRN*, measurement unit qualifier code = *A*, condition amount indicator = *0*.

Transaction 3:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

Transaction 4:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, measure type id = *000001*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CEI*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount 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.

Message:

dm_ref_dfar_update_01.xml

Precondition:

Make sure the *dm_ref_dfar_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 dynamic footnote association rule with footnote type id = *ACF*, footnote id

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

= 00700, start date = 2008-01-01, condition code = AA, action code = 001.

Transaction 2:

- Message 1: Request the dynamic footnote association rule with operator = AND, query space field = DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE.REF.FOOTNOTE REF.Footnote type id, operator = =, constant = ACF, query space field = DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE.REF.FOOTNOTE REF.Footnote id, operator = =, constant = 00700.

Transaction 3:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACD, footnote id = 10100, start date = 2008-01-01, condition code = AA, action code = 001.

Transaction 4:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACF, footnote id = 00700, start date = 2008-01-01, end date = 2007-01-01, condition code = AA, action code = 001.

Transaction 5:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = AXX, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001.

Transaction 6:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACF, footnote id = 00700, start date = 2008-01-01, measure type id = 000999, condition code = XX, action code = 001, certificate type code = X, certificate code = 999.

Transaction 7:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACF, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001, measurement unit code = XXX, measurement unit qualifier code = Z, condition amount indicator = 0.

Transaction 8:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACF, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001, measurement unit code = KGM, condition amount indicator = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Transaction 9:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *004*.

Transaction 10:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*.

Transaction 11:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount indicator = *5*.

Transaction 12:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, measure type id = *000001*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CEI*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount indicator = *0*.

Transaction 13:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2007-01-01*, end date = *2008-04-01*, condition code = *AA*, action code = *003*.

Expected output:

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

Reply to transaction 1:

- Message 1, on dynamic.footernote.association.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on dynamic.footernote.association.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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

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 dynamic.footnote.association.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 6:

- Message 1, on certificate.ref : 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 certificate.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 1, on measure.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 1, on measure.type.ref : VR-DFAR-4: The referenced measure type must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-5: The referenced condition code must exist.
- Message 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.type.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 7:

- Message 1, on measurement.unit.ref : 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 measurement.unit.qualifier.ref : 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 measurement.unit.ref : VR-DFAR-7: The referenced measurement unit must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-8: The referenced combination measurement unit +

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

measurement unit qualifier must exist.

- Message 1, on measurement.unit.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on measurement.unit.qualifier.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 8:

- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

Reply to transaction 9:

- Message 1, on measure.action.code.ref : VR-DFAR-10: The referenced action code must exist.
- Message 1, on measure.action.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 10:

- Message 1, on measurement.unit.ref : VR-DFAR-13: The amount indicator and the measurement unit must be both filled in or both empty.

Reply to transaction 11:

- Message 1, on condition.amount.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 12:

- Message 1, on dynamic.footernote.association.rule.ref : VR-DFAR-11: The validity period of the association rule must not overlap any other association rule with the same measure type + condition type + certificate type + certificate code + amount indicator + measurement unit + measurement unit qualifier + action code.

Reply to transaction 13:

- Message 1, on measure.action.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Message: dm_ref_dfar_update_02.xml

Precondition: Make sure the dm_ref_dfar_update_setup_02.xml message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-02-01*, end date = *2007-01-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *AXX*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

Transaction 3:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-01-01*, measure type id = *000999*, condition code = *XX*, action code = *001*, certificate type code = *X*, certificate code = *999*.

Transaction 4:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACI*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, certificate type code = *X*, certificate code = *999*.

Transaction 5:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *XXX*, measurement unit qualifier code = *Z*, condition amount indicator = *0*.

Transaction 6:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, condition amount indicator = *1*.

Transaction 7:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACH*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *004*.

Transaction 8:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = *ACI*, footnote id

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

= 00800, start date = 2008-02-01, measure type id = 000001, condition code = AA, action code = 001, certificate type code = A, certificate code = CE1, measurement unit code = KGM, measurement unit qualifier code = A, condition amount indicator = 0.

Transaction 9:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = ACH, footnote id = 00700, start date = 2007-01-01, end date = 2008-04-01, condition code = AA, action code = 003.

Transaction 10:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = ACH, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001, measurement unit code = KGM, measurement unit qualifier code = A.

Transaction 11:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = ACH, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001, measurement unit code = KGM, measurement unit qualifier code = A, condition amount indicator = 5.

Transaction 12:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = ACD, footnote id = 10100, start date = 2008-01-01, condition code = AA, action code = 001.

Transaction 13:

- Message 1: Update the unstable dynamic footnote association rule with footnote type id = ACH, footnote id = 00700, start date = 2008-01-01, condition code = AA, action code = 001.

Expected output:

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

Reply to transaction 1:

- 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 2:

- Message 1, on dynamic.footnote.association.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 3:

- Message 1, on certificate.ref : VR-VI-9: When the

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

publication status of data is set to unstable, all foreign key references must exist either as "unstable" data or "stable" data.

- Message 1, on certificate.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 1, on measure.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 1, on measure.type.ref : VR-DFAR-4: The referenced measure type must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-5: The referenced condition code must exist.
- Message 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.

Reply to transaction 4:

- Message 1, on certificate.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 1, on certificate.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 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.

Reply to transaction 5:

- Message 1, on measurement.unit.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 1, on measurement.unit.qualifier.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 1, on measurement.unit.ref : VR-DFAR-7: The referenced measurement unit must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-8: The referenced combination measurement unit + measurement unit qualifier must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Reply to transaction 6:

- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

Reply to transaction 7:

- Message 1, on measure.action.code.ref : VR-DFAR-10: The referenced action code must exist.

Reply to transaction 8:

- Message 1, on dynamic.footnote.association.rule.ref : OK.

Reply to transaction 9:

- Message 1, on footnote.ref : 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 footnote.ref : 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 footnote.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on footnote.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on measure.action.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 10:

- Message 1, on measurement.unit.ref : VR-DFAR-13: The amount indicator and the measurement unit must be both filled in or both empty.

Reply to transaction 11:

- Message 1, on condition.amount.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 12:

- Message 1, on dynamic.footnote.association.rule.ref : VR-VI-1: Data to be updated must exist.

Reply to transaction 13:

- Message 1, on dynamic.footnote.association.rule.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Message: **dm_ref_dfar_update_03.xml**

Precondition: Make sure the *dm_ref_dfar_update_setup_02.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-02-01*, end date = *2009-01-01*, condition code = *AA*, action code = *001*.

Transaction 2:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *AXX*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

Transaction 3:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, measure type id = *000999*, condition code = *XX*, action code = *001*, certificate type code = *X*, certificate code = *999*.

Transaction 4:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, condition code = *AA*, action code = *001*, certificate type code = *X*, certificate code = *999*.

Transaction 5:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *XXX*, measurement unit qualifier code = *Z*, condition amount indicator = *0*.

Transaction 6:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, condition amount indicator = *1*.

Transaction 7:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

action code = 004.

Transaction 8:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACG*, footnote id = *00800*, start date = *2008-02-01*, measure type id = *000001*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE1*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount indicator = *0*.

Transaction 9:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2007-01-01*, end date = *2008-04-01*, condition code = *AA*, action code = *003*.

Transaction 10:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*.

Transaction 11:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*, measurement unit code = *KGM*, measurement unit qualifier code = *A*, condition amount indicator = *5*.

Transaction 12:

- Message 1: Update the stable dynamic footnote association rule with footnote type id = *ACD*, footnote id = *10100*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

Expected output:

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

Reply to transaction 1:

- Message 1, on *dynamic.footernote.association.rule.ref* : OK.

Reply to transaction 2:

- Message 1, on *dynamic.footernote.association.rule.ref* : VR-VI-1: Data to be updated must exist.

Reply to transaction 3:

- Message 1, on *certificate.ref* : VR-VI-6: When the publication status of data is set to stable, all foreign key

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

reference data must exist as "stable".

- Message 1, on certificate.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 1, on measure.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 1, on measure.type.ref : VR-DFAR-4: The referenced measure type must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-5: The referenced condition code must exist.
- Message 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.
- Message 1, on measure.condition.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.type.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 4:

- Message 1, on certificate.ref : 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 certificate.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 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.
- Message 1, on certificate.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.type.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 5:

- Message 1, on measurement.unit.ref : VR-VI-6: When the publication status of data is set to stable, all foreign

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

key reference data must exist as "stable".

- Message 1, on measurement.unit.qualifier.ref : 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 measurement.unit.ref : VR-DFAR-7: The referenced measurement unit must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-8: The referenced combination measurement unit + measurement unit qualifier must exist.
- Message 1, on measurement.unit.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on measurement.unit.qualifier.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 6:

- Message 1, on measurement.unit.ref : VR-DFAR-9: If the measurement unit has the 'qualifier required' flag set, then a measurement unit qualifier must be entered.

Reply to transaction 7:

- Message 1, on measure.action.code.ref : VR-DFAR-10: The referenced action code must exist.
- Message 1, on measure.action.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 8:

- Message 1, on dynamic.footnote.association.rule.ref : OK.

Reply to transaction 9:

- Message 1, on measure.action.code.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

Reply to transaction 10:

- Message 1, on measurement.unit.ref : VR-DFAR-13: The amount indicator and the measurement unit must be both filled in or both empty.

Reply to transaction 11:

- Message 1, on condition.amount.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 12:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

- Message 1, on dynamic.footnote.association.rule.ref : VR-VI-1: Data to be updated must exist.

Message: **dm_ref_dfar_update_04.xml**

Precondition: Make sure the dm_ref_dfar_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 dynamic footnote association rule with footnote type id = ACG, footnote id = 00800, start date = 2008-02-01, condition code = AA, action code = 001, certificate type code = X, certificate code = 999.

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

Reply to transaction 1:

- Message 1, on certificate.ref : 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 certificate.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 1, on certificate.ref : VR-DFAR-6: The referenced certificate must exist.
- Message 1, on certificate.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.
- Message 1, on certificate.type.ref : VR-DFAR-12: The validation period of the association rule must be spanned by the validity period of all referenced data.

2.3.4. Test case dm_dfar_fo_delete: Deletion of a dynamic footnote association rule

Message: **dm_ref_dfar_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_setup_01.xml* and *init_ref_setup_02.xml* messages should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
DYNAMIC FOOTNOTE ASSOCIATION RULE	

Content: The message is composed of the following transactions:

Transaction 1:

Transaction 1: Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *001*.

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

Reply to transaction 1: Status ok.

Message: **dm_ref_dfar_delete_01.xml**

Precondition: Make sure the message dm_ref_dfar_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 dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*.

Transaction 2:

- Message 1: Request the dynamic footnote association rule with operator = *AND*, query space field = *DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE REF.FOOTNOTE REF.Footnote type id*, operator = *=*, constant = *ACF*, query space field = *DYNAMIC FOOTNOTE ASSOCIATION RULE.DYNAMIC FOOTNOTE ASSOCIATION RULE REF.FOOTNOTE REF.Footnote id*, operator = *=*, constant = *00700*.

Transaction 3:

- Message 1: Delete the dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*.

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

Reply to transaction 1:

- Message 1, on dynamic.footnote.association.rule.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1, on dynamic.footnote.association.rule.ref : VR_VI_3: Data to be deleted must exist.

2.4. Measurement unit

2.4.1. Test case init_ref_mu_setup: Insertion of Measurement unit reference data

Message: init_ref_measurement_unit_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 = *1001*, 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 1001*.
 - description 2: language id = *FR*, description = *French Description of country group 1001*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

description = *Dutch Description of country group 1001.*

Transaction 3:

- Message 1: Insert a stable country with country id = *BE*, 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 country group 1001.*
 - description 2: language id = *FR*, description = *French Description of country group 1001.*
 - description 3: language id = *NL*, description = *Dutch Description of country group 1001.*

Transaction 4:

- Message 1: Insert a stable country with country id = *IT*, 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 country group 1001.*
 - description 2: language id = *FR*, description = *French Description of country group 1001.*
 - description 3: language id = *NL*, description = *Dutch Description of country group 1001.*

Transaction 5:

- Message 1: Insert a stable country with country id = *FR*, 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 country group 1001.*
 - description 2: language id = *FR*, description = *French Description of country group 1001.*
 - description 3: language id = *NL*, description = *Dutch Description of*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

country group 1001.

Transaction 6:

- Message 1: Insert a stable measure type series with measure type series id = AA, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of measure type series AA.*
 - description 2: language id = FR, description = *French Description of measure type series AA.*
 - description 3: language id = NL, description = *Dutch Description of measure type series AA.*
- measure type combination = 0.

Transaction 7:

- Message 1: Insert a stable additional code type with additional code type id = A, start date = 2000-01-01:
 - 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 8:

- Message 1: Insert a stable additional code with additional code type id = A, additional code id = 001, start date = 2000-01-01:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of additional code A-001.*
 - description 2: language id = FR, description = *French Description of additional code A-001.*
 - description 3: language id = NL, description = *Dutch Description of additional code A-001.*
- Message 2: Insert a stable additional code with additional code type id = A, additional code id = 002, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of additional code A002*.
 - description 2: language id = *FR*, description = *French Description of additional code A002*.
 - description 3: language id = *NL*, description = *Dutch Description of additional code A002*.

Transaction 9:

- 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 10:

- Message 1: Insert a stable measure type with measure type id = *001000*, 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 = *SRG*, start date = *2001-01-01*.
- 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 11:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 178:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of goods nomenclature 0100000000.*
 - description 2: language id = FR, description = *French Description of goods nomenclature 0100000000.*
 - description 3: language id = NL, description = *Dutch Description of goods nomenclature 0100000000.*
 - indent 1: start date = 2008-01-01, indent number = 1.

statistical indicator = 0.

Transaction 12:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2001-01-01, official journal number = 1, official journal page = 5, information text = test.

Transaction 13:

- 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 regu role type 1.*
 - description 2: language id = FR, description = *French Description of regu role type 1.*
 - description 3: language id = NL, description = *Dutch Description of regu role type 1.*

Transaction 14:

- Message 1: Insert a stable measure condition code with condition code = AA, start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description of measure condition code AA.*
 - description 2: language id = FR, description = *French Description of measure condition code*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

AA.

- description 3: language id = *NL*, description = *Dutch Description of measure condition code AA*.

Transaction 15:

- Message 1: Insert a stable footnote type with footnote type id = *ACF*, 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*.

application code = 9.

Transaction 16:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, 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 17:

- Message 1: Insert a stable measure action code with action code = *302*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description of MAC 302*.
 - description 2: language id = *FR*, description = *French Description of MAC 302*.
 - description 3: language id = *NL*, description = *Dutch Description of MAC 302*.

Transaction 18:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *A*, start date = *2007-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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 2: Insert a stable measurement unit qualifier with measurement unit qualifier code = *B*, start date = *2007-01-01*:
 - 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 3: Insert a stable measurement unit qualifier with measurement unit qualifier code = *C*, start date = *2007-01-01*, end date = *2008-12-31*:
 - 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 4: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *F*, start date = *2007-01-01*:
 - 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 19:

- 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 20:

- Message 1: Insert a stable duty expression with duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

expression id = 11, 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 21:

- Message 1: Insert a stable monetary unit with monetary unit code = EUR, start date = 1999-01-01:
 - description 1: language id = EN, description = *English Description of MAC 002.*
 - description 2: language id = FR, description = *French Description of MAC 002.*
 - description 3: language id = NL, description = *Dutch Description of MAC 002.*

Transaction 0:

- Message 1: Insert a stable measure action code with action code = 900, start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description of 900.*
 - description 2: language id = FR, description = *French Description of 900.*
 - description 3: language id = NL, description = *Dutch Description of 900.*

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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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 0: Status ok.

2.4.2. Test case dm_ref_mu_insert: Insertion of a measurement unit

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT*.
 - description 2: language id = *FR*, description = *French Description for measurement unit VTT*.
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Dutch Description for measurement unit VTT.

measurement unit qualifier code = A.

qualifier required = 1.

Transaction 2:

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = =, constant = *VTT*.

Transaction 3:

- Message 1: Insert an unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT*.
 - description 2: language id = *FR*, description = *French Description for measurement unit VTT*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT*.

qualifier required = 0.

Transaction 4:

- Message 1: Insert an unstable measurement unit with measurement unit code = *er*, 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*.

qualifier required = *Q*.

Transaction 5:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*, end date = *2007-08-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV*.
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV*.

qualifier required = 0.

Transaction 6:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

measurement unit qualifier code = *A*.

qualifier required = 0.

Transaction 7:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description for measurement unit TGV*.

- description 2: language id = *FR*, description = *French Description for measurement unit TGV*.

- description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV*.

qualifier required = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on ns3:measurement.unit.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on ns3:measurement.unit.ref : VR-MU-1:
The measurement unit must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measurement.unit.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on qualifier.required : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- 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 ns3:description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 7:

- Message 1, on qualifier.required : VR-MU-2: When the "qualifier required" attribute is true, then at least one associated measurement unit qualifier must exist.

Message: **dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement VTT*.
 - description 2: language id = *FR*, description = *French Description for measurement VTT*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement VTT*.
- qualifier required = *0*.

Transaction 2:

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = *=*, constant = *VTT*.

Transaction 3:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 2: language id = *FR*, description = *French Description for measurement unit VTT.*
- description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT.*

qualifier required = 0.

Transaction 4:

- Message 1: Insert a stable measurement unit with measurement unit code = *er*, start date = *2008/01/701*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT.*
 - description 2: language id = *F*, description = *French Description for measurement unit.*
 - description 3: language id = *nl*, description = *Dutch Description for measurement unit.*

qualifier required = 7.

Transaction 5:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*, end date = *2007-08-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit.*
 - description 2: language id = *FR*, description = *French Description for measurement unit.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit.*

qualifier required = 0.

Transaction 6:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = 0.

Transaction 7:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

English Description.

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

qualifier required = *1*.

Transaction 8:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGB*, 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.*

measurement unit qualifier code = *F*, start date = *2008-01-01*.

qualifier required = *1*.

Expected output:

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

Reply to transaction 1:

- Message 1, on ns3:measurement.unit.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on ns3:measurement.unit.ref : VR-MU-1:
The measurement unit must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measurement.unit.code : 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-

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

ERROR: Invalid format.

- Message 1, on qualifier.required : 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 ns3:description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

Reply to transaction 7:

- Message 1, on qualifier.required : VR-MU-2: When the "qualifier required" attribute is true, then at least one associated measurement unit qualifier must exist.

Reply to transaction 8:

- Message 1, on ns3:measurement.unit.qualifier.ref : VR-MU-3: Associated measurement unit qualifiers, must be stable when the measurement unit is stable.

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *TGV*, 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*.
- qualifier required = *0*.

Transaction 2:

- Message 1: Insert an unstable measurement unit with

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

qualifier required = 0.

Transaction 5:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, 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 = *XX*, description = *Description for a non existing language*.
 - description 4: language id = *NL*, description = *Dutch Description*.

qualifier required = 0.

Transaction 6:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 7:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 8:

- Message 1: Insert an unstable measurement unit with

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

measurement unit code = *TGV*, start date = *2008-01-01*:

- 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.*

qualifier required = *0*.

Transaction 9:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - 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.*

qualifier required = *0*.

Transaction 10:

- Message 1: Insert an unstable measurement unit with measurement unit code = *TGV*, 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.*

measurement unit qualifier code = *G*.

qualifier required = *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:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- 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.

Reply to transaction 9:

- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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 measurement.unit.qualifier.ref : VR-MU-15: The associated measurement unit qualifier must exist.

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 3:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Description for a non existing language.

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

qualifier required = 0.

Transaction 6:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 7:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = 0.

Transaction 8:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - 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*.

qualifier required = 0.

Transaction 9:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- 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.*

qualifier required = 0.

Transaction 10:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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.*

measurement unit qualifier code = *G*, start date = *2008-01-01.*

qualifier required = 1.

Transaction 11:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

qualifier required = 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

Reply to transaction 10:

- Message 1, on measurement.unit.qualifier.ref : VR-MU-15: The associated measurement unit qualifier must exist.

Reply to transaction 11:

- 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 qualifier.required : VR-MU-2: When the "qualifier required" attribute is true, then at least one associated measurement unit qualifier must exist.

2.4.3. Test case dm_ref_mu_update: Update of a measurement unit

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *RER*, 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*.

qualifier required = *0*.

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *TFT*, 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

French Description.

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

qualifier required = 0.

Transaction 3:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = *FR*, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, order number = 094002, start date = 2008-01-01, measure sid = 1, regulation id = R0801010, regulation role type = 1:
 - measure component 1: duty expression id = 11, measurement unit code = *TFT*, monetary unit code = *EUR*.

Transaction 4:

- Message 1: Insert a stable measurement unit with measurement unit code = *XSD*, 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.*

qualifier required = 0.

Transaction 5:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = 00700, start date = 2008-01-01, end date = 2008-12-01, condition code = *AA*, action code = 302, measurement unit code = *XSD*, condition amount indicator = 0.

Transaction 6:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Transaction 7:

- Message 1: Insert an unstable measurement unit with measurement unit code = *VTM*, 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*.

measurement unit qualifier code = *Z*.

qualifier required = *1*.

Transaction 8:

- Message 1: Insert a stable measurement unit with measurement unit code = *VRT*, 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*.

measurement unit qualifier code = *Z*, start date = *2008-01-01*.

qualifier required = *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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Reply to transaction 8: Status ok.

Message: **dm_ref_mu_update_01.xml**

Precondition: Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *RER*, 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.*

qualifier required = *0*.

Transaction 2:

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = *=*, constant = *RER*.

Transaction 3:

- Message 1: Update the unstable measurement unit with measurement unit code = *XXX*, 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.*

qualifier required = *0*.

Transaction 4:

- Message 1: Update the unstable measurement unit with measurement unit code = *RER*, start date = *2008-01-01*, end date = *2007-08-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

English Description updated.

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

qualifier required = 0.

Transaction 6:

- Message 1: Update the unstable measurement unit with measurement unit code = *TFT*, 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.*

qualifier required = 0.

Expected output:

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

Reply to transaction 1:

- Message 1, on ns3:measurement.unit.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on ns3:measurement.unit.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 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.

Message: **dm_ref_mu_update_02.xml**

Precondition: Make sure the *dm_ref_mu_update_setup_01.xml* message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measurement unit with measurement unit code = *RER*, 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.*

qualifier required = *0*.

Transaction 2:

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = *=*, constant = *RER*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *RER*, start date = *2008-01-01*, end date = *2007-08-01*:
 - 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.*

qualifier required = *0*.

Transaction 4:

- Message 1: Update the stable measurement unit with measurement unit code = *VTM*, 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.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

measurement unit qualifier code = Z, start date = 2009-01-01.

qualifier required = 0.

Expected output:

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

Reply to transaction 1:

- Message 1, on ns3:measurement.unit.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 ns3:measurement.unit.qualifier.combination : VR-MU-22: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the measurement unit.

Message: **dm_ref_mu_update_03.xml**

Precondition: Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *TFT*, 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.*

qualifier required = 0.

Transaction 2:

- Message 1: Request the measurement unit with query

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = =,
constant = *TFT*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *TFT*, start date = *2008-01-01*, end date = *2007-08-01*:
 - 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.*

qualifier required = 0.

Transaction 4:

- Message 1: Update the stable measurement unit with measurement unit code = *TFT*, 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.*

qualifier required = 0.

Transaction 5:

- Message 1: Update the stable measurement unit with measurement unit code = *XSD*, 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.*

qualifier required = 0.

Transaction 6:

- Message 1: Update the stable measurement unit with measurement unit code = *VRT*, start date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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.*

measurement unit qualifier code = *Z*, start date = 2009-01-01.

qualifier required = 0.

Expected output:

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

Reply to transaction 1:

- Message 1, on ns3:measurement.unit.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 ns3:measurement.unit.ref : VR-MU-5: The validity period of the measurement unit must span the validity period of all related stable measures.

Reply to transaction 5:

- Message 1, on ns3:measurement.unit.ref : VR-MU-6: The validity period of the measurement unit must span the validity period of all related stable dynamic footnote associations.

Reply to transaction 6:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-22: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the measurement unit.

Message:

dm_ref_mu_update_04.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Precondition: Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *RER*, 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.*

measurement unit qualifier code = *E*.

qualifier required = *1*.

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : VR-MU-15: The associated measurement unit qualifier must exist.

Message: **dm_ref_mu_update_05.xml**

Precondition: Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *FRF*, 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.*

qualifier required = *0*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *RER*, 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*.

measurement unit qualifier code = *F*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *RER*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

qualifier required = *0*.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on measurement.unit.qualifier.ref : VR-MU-3: Associated measurement unit qualifiers, must be stable when the measurement unit is stable.

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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Message: **dm_ref_mu_update_06.xml**

Precondition: Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *LOL*, 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*.

qualifier required = *0*.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *TFT*, 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*.

measurement unit qualifier code = *F*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *TFT*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Dutch Description.

qualifier required = 0.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on measurement.unit.qualifier.ref : VR-MU-3: Associated measurement unit qualifiers, must be stable when the measurement unit is stable.

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.

2.4.4. Test case dm_ref_mu_delete: Deletion of a measurement unit

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT*.
 - description 2: language id = *FR*, description = *French Description for measurement unit VTT*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT*.

qualifier required = 0.

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

qualifier required = 0.

Transaction 3:

- Message 1: Insert a stable measurement unit with measurement unit code = *TFT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TFT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TFT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TFT.*

qualifier required = 0.

Transaction 4:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *FR*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, order number = *094002*, start date = *2008-01-01*, measure sid = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - measure component 1: duty expression id = *11*, measurement unit code = *TFT*, monetary unit code = *EUR*.

Transaction 5:

- Message 1: Insert a stable measurement unit with measurement unit code = *TNT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TNT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TNT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TNT.*

qualifier required = 0.

Transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = BE, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, order number = 094002, start date = 2008-01-01, measure sid = 2, regulation id = R0801010, regulation role type = 1:
 - measure condition 1: condition code = AA, sequence number = 1, measurement unit code = TNT, action code = 900.

Transaction 7:

- Message 1: Insert a stable measurement unit with measurement unit code = DGT, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description for measurement unit DGT.*
 - description 2: language id = FR, description = *French Description for measurement unit DGT.*
 - description 3: language id = NL, description = *Dutch Description for measurement unit DGT.*

measurement unit qualifier code = B, start date = 2008-01-01.

qualifier required = 1.

Transaction 8:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = IT, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, order number = 094002, start date = 2008-01-01, measure sid = 3, regulation id = R0801010, regulation role type = 1:
 - measure condition 1: condition code = AA, sequence number = 02, action code = 900:
 - measure component 1: duty expression id = 11, measurement unit code = DGT, measurement unit qualifier code = B, monetary unit code = EUR.

Transaction 9:

- Message 1: Insert a stable measurement unit with measurement unit code = VTF, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description for measurement unit VTF.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 2: language id = *FR*, description = *French Description for measurement unit VTF*.
- description 3: language id = *NL*, description = *Dutch Description for measurement unit VTF*.

qualifier required = 0.

Transaction 10:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, end date = *2008-12-01*, condition code = *AA*, action code = *302*, measurement unit code = *VTF*, condition amount 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.

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_mu_delete_01.xml

Precondition:

Make sure the message *dm_ref_mu_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 measurement unit with measurement unit code = *VTT*.

Transaction 2:

- Message 1: Delete the measurement unit with measurement unit code = *TGV*.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = *IN*, constant = (*VTT, TGV*).

Transaction 4:

- Message 1: Delete the measurement unit with measurement unit code = *VTT*.

Transaction 5:

- Message 1: Delete the measurement unit with measurement unit code = *TGV*.

Transaction 6:

- Message 1: Delete the measurement unit with measurement unit code = *TFT*.

Transaction 7:

- Message 1: Delete the measurement unit with measurement unit code = *TNT*.

Transaction 8:

- Message 1: Delete the measurement unit with measurement unit code = *DGT*.

Transaction 9:

- Message 1: Delete the measurement unit with measurement unit code = *VTF*.

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.ref : OK.

Reply to transaction 2:

- Message 1, on measurement.unit.ref : OK.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on measurement.unit.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on measurement.unit.ref : VR-VI-3: Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on measurement.unit.ref : VR-MU-11: A measurement unit cannot be deleted if used in a measure component.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Reply to transaction 7:

- Message 1, on measurement.unit.ref : VR-MU-13: A measurement unit cannot be deleted if used in a measure condition.

Reply to transaction 8:

- Message 1, on measurement.unit.ref : VR-MU-12: A measurement unit cannot be deleted if used in a measure condition component.
- Message 1, on delete.measurement.unit : VR-MU-20: The combination of a measurement unit and a measurement unit qualifier cannot be deleted if this combination is used in a measure condition component.

Reply to transaction 9:

- Message 1, on measurement.unit.ref : VR-MU-14: A measurement unit cannot be deleted if used in a dynamic footnote association.

2.4.5. Test case dm_ref_mu_di_update: Update of a measurement unit description

Message: dm_ref_mu_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_measurement_unit_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 measurement unit with measurement unit code = *VTT*, 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*.

measurement unit qualifier code = *A*.

qualifier required = *1*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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*.
- qualifier required = 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.

Message:

dm_ref_mu_di_update_01.xml

Precondition:

Make sure the *dm_ref_mu_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 measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for Meas. Unit VTT updated*.
 - description 2: language id = *FR*, description = *French description for Meas. Unit VTT updated*.
 - description 3: language id = *NL*, description = *Dutch Description for Meas. Unit VTT updated*.
- qualifier required = 0.

Transaction 2:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *"English Description for Meas. Unit VTT updated*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 2: language id = *FR*, description = *"Description for Meas. Unit VTT inside double quote.*
- description 3: language id = *NL*, description = *Dutch Description for Meas. Unit VTT updated".*

qualifier required = 0.

Transaction 3:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters in one of the multilingual descriptions:...*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

qualifier required = 0.

Transaction 4:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, 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 = *FR*, description = *Second French Description for Meas Unit.*
 - description 4: language id = *NL*, description = *Dutch Description updated.*

qualifier required = 0.

Transaction 5:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Dutch Description updated.

- description 4: language id = *XX*, description = *XX Description*.

qualifier required = 0.

Transaction 6:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = */description with wrong character*.
 - description 2: language id = *FR*, description = *French Description updated*.
 - description 3: language id = *NL*, description = *Dutch Description updated*.

qualifier required = 0.

Transaction 7:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, 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*.

qualifier required = 0.

Transaction 8:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *en kg.*
 - description 2: language id = *FR*, description = *fr kg.*
 - description 3: language id = *NL*, description = *nl kg:.*

qualifier required = 0.

Transaction 9:

- Message 1: Update the unstable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 1: language id = *EN*, description = *en kg: en*.
 - description 2: language id = *FR*, description = *fr kg, fr*.
 - description 3: language id = *NL*, description = *Dutch description*.
- qualifier required = 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.
- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.
- 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.

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

Reply to transaction 8:

- 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-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_mu_di_update_02.xml

Precondition: Make sure the dm_ref_la_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 measurement unit with measurement unit code = VTT, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

qualifier required = 0.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *"English Description updated.*
 - description 2: language id = *FR*, description = *"French description inside double quote.*
 - description 3: language id = *NL*, description = *Dutch Description updated".*

qualifier required = 0.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description updated.*
 - description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters in one of the multilingual descriptions:...*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

qualifier required = 0.

Transaction 4:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, 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 = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Second French Description.

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

qualifier required = 0.

Transaction 5:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, 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.*
 - description 4: language id = *XX*, description = *XX Description.*

qualifier required = 0.

Transaction 6:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English descrip.*
 - description 2: language id = *FR*, description = *French Description updated.*
 - description 3: language id = *NL*, description = *Dutch Description updated.*

qualifier required = 0.

Transaction 7:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, 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.*

qualifier required = 0.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *en kg.*
 - description 2: language id = *FR*, description = *fr kg.*
 - description 3: language id = *NL*, description = *nl kg.*

qualifier required = *0*.

Transaction 9:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *en kg: en.*
 - description 2: language id = *FR*, description = *fr kg, fr.*
 - description 3: language id = *NL*, description = *Dutch description.*

qualifier required = *0*.

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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.

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

Reply to transaction 8:

- 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-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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- 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_mu_di_update_03.xml**

Precondition: Make sure the *dm_ref_la_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 measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV updated.*
 - description 2: language id = *FR*, description = *- Description for measurement unit TGV starting with indent.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*

qualifier required = *0*.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *"English Description for measurement unit TGV updated.*
 - description 2: language id = *FR*, description = *"French Description for measurement unit TGV.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated".*

qualifier required = *0*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 1: language id = *EN*, description = *English Description for measurement unit TGV updated.*
- description 2: language id = *FR*, description = *Test with a description which contains more than 1500 characters in one of the multilingual descriptions: ...*
- description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*

qualifier required = 0.

Transaction 4:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV updated.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV updated.*
 - description 3: language id = *FR*, description = *Second French Description for measurement unit TGV.*
 - description 4: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*

qualifier required = 0.

Transaction 5:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV updated.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV updated.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*
 - description 4: language id = *XX*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

XX Description for measurement unit TGV.

qualifier required = 0.

Transaction 6:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = */English description for measurement unit TGV.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV updated.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*

qualifier required = 0.

Transaction 7:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV updated:.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV updated:.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV updated.*

qualifier required = 0.

Transaction 8:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *en kg:.*
 - description 2: language id = *FR*, description = *fr kg.*
 - description 3: language id = *NL*, description = *nl kg:.*

qualifier required = 0.

Transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *en kg: en.*
 - description 2: language id = *FR*, description = *fr kg, fr.*
 - description 3: language id = *NL*, description = *Dutch description for measurement unit TGV.*
- qualifier required = *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.
- Message 1, on description : VR-DI-4: The number of double quotes (") in a description text must be even.
- 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.

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 '|'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

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

Reply to transaction 8:

- 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-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.

2.4.6. Test case dm_ref_mu_ass_insert: Insert of a measurement unit qualifier association

Message: dm_ref_mu_ass_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_measurement_unit_setup.xml* message should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measurement unit with measurement unit code = *VTT*, 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*.
 measurement unit qualifier code = *A*.

qualifier required = *1*.

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *TGV*, 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*.

qualifier required = *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.

Message: **dm_ref_mu_ass_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_measurement_unit_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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- Message 1: Insert an unstable measurement unit with measurement unit code = *VTR*, 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*.

measurement unit qualifier code = *A*,
measurement unit qualifier code = *A*.

qualifier required = *1*.

Transaction 3:

- Message 1: Insert an unstable measurement unit with measurement unit code = *VTR*, 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*.

measurement unit qualifier code = *A*, start date = *2008-05-05*, end date = *2008-02-01*.

qualifier required = *1*.

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.code : VR-MU-16: A measurement unit qualifier can only be associated once with the measurement unit.

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.

Message:

dm_ref_mu_ass_insert_02.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_measurement_unit_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 measurement unit with measurement unit code = *VTR*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTR*.
 - description 2: language id = *FR*, description = *French Description for measurement unit VTR*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTR*.

measurement unit qualifier code = *A*, start date = *2008-01-01*, measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 2:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTR*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTR*.
 - description 2: language id = *FR*, description = *French Description for measurement unit VTR*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTR*.

measurement unit qualifier code = *F*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 3:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTR*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

English Description for measurement unit VTR.

- description 2: language id = *FR*, description = *French Description for measurement unit VTR.*
- description 3: language id = *NL*, description = *Dutch Description for measurement unit VTR.*

measurement unit qualifier code = *A*, start date = *2008-05-05*, end date = *2008-02-01*.

qualifier required = *1*.

Transaction 4:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTR*, start date = *2008-01-01*, end date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTR.*
 - description 2: language id = *FR*, description = *French Description for measurement unit VTR.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTR.*

measurement unit qualifier code = *A*, start date = *2008-01-01*, end date = *2008-05-01*.

qualifier required = *1*.

Transaction 5:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTR*, start date = *2006-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTR.*
 - description 2: language id = *FR*, description = *French Description for measurement unit VTR.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTR.*

measurement unit qualifier code = *B*, start date = *2006-02-05*, end date = *2007-02-01*.

qualifier required = *1*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.code : VR-MU-16: A measurement unit qualifier can only be associated once with the measurement unit.

Reply to transaction 2:

- Message 1, on ns3:measurement.unit.qualifier.ref : VR-MU-3: Associated measurement unit qualifiers, must be stable when the measurement unit is stable.

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 ns3:measurement.unit.qualifier.combination : VR-MU-22: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the measurement unit.

Reply to transaction 5:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-21: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the referenced measurement unit qualifier.

2.4.7. Test case dm_ref_mu_ass_update: Update of a measurement unit qualifier association

Message: dm_ref_mu_ass_update_01.xml

Precondition: Make sure the dm_ref_mu_ass_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measurement unit with measurement unit code = VTT, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description for measurement unit VTT.
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

French Description for measurement unit VTT.

- description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT.*
measurement unit qualifier code = *A*, start date = *2008-05-05*, end date = *2008-02-01*.

qualifier required = *1*.

Expected output:

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

Reply to transaction 1:

- 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_mu_ass_update_02.xml

Precondition:

Make sure the *dm_ref_mu_ass_setup_01.xml* message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit VTT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT.*
measurement unit qualifier code = *A*, start date = *2008-05-05*, end date = *2008-02-01*.

qualifier required = *1*.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*, end date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 2: language id = *FR*, description = *French Description for measurement unit VTT.*
- description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT.*
measurement unit qualifier code = *A*, start date = *2008-01-05*, end date = *2008-05-01*.

qualifier required = *1*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *VTT*, start date = *2006-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit VTT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit VTT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit VTT.*
measurement unit qualifier code = *B*, start date = *2006-02-05*, end date = *2007-02-01*.

qualifier required = *1*.

Expected output:

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

Reply to transaction 1:

- 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 2:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-22: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the measurement unit.

Reply to transaction 3:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-21: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the referenced measurement unit qualifier.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

Message: **dm_ref_mu_ass_update_03.xml**

Precondition: Make sure the *dm_ref_mu_ass_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV*.
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV*.

measurement unit qualifier code = *A*, start date = *2008-05-05*, end date = *2008-02-01*.

qualifier required = *1*.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2008-01-01*, end date = *2008-02-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV*.
 - description 2: language id = *FR*, description = *French Description for measurement unit TGV*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV*.

measurement unit qualifier code = *A*, start date = *2008-01-05*, end date = *2008-05-01*.

qualifier required = *1*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *TGV*, start date = *2006-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TGV*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

French Description for measurement unit TGV.

- description 3: language id = *NL*, description = *Dutch Description for measurement unit TGV.*
measurement unit qualifier code = *B*, start date = *2006-02-05*, end date = *2007-02-01*.

qualifier required = *1*.

Expected output:

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

Reply to transaction 1:

- 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 2:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-22: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the measurement unit.

Reply to transaction 3:

- Message 1, on ns3:measurement.unit.qualifier.combination : VR-MU-21: The validity period of the measurement unit qualifier association must be enclosed in the validity period of the referenced measurement unit qualifier.

2.4.8. Test case dm_ref_mu_ass_delete: Delete of a measurement unit qualifier association

Message: dm_ref_mu_ass_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_measurement_unit_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 measurement unit with measurement unit code = *FFF*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit FFF.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 2: language id = *FR*, description = *French Description for measurement unit FFF*.
- description 3: language id = *NL*, description = *Dutch Description for measurement unit FFF*.
measurement unit qualifier code = *B*, start date = *2008-01-01*.

qualifier required = *0*.

Transaction 2:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, condition code = *AA*, action code = *302*, measurement unit code = *FFF*, measurement unit qualifier code = *B*, condition amount indicator = *0*.

Transaction 3:

- Message 1: Insert a stable measurement unit with measurement unit code = *TFT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TFT*.
 - description 2: language id = *FR*, description = *French Description for measurement unit TFT*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TFT*.
measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = *0*.

Transaction 4:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *FR*, goods nomenclature id = *0100000000*, productline suffix = *80*, order number = *094001*, start date = *2008-01-01*, measure sid = *1*, regulation id = *R0801010*, regulation role type = *1*:
 - measure component 1: duty expression id = *11*, measurement unit code = *TFT*, measurement unit qualifier code = *A*, monetary unit code = *EUR*.

Transaction 5:

- Message 1: Insert a stable measurement unit with measurement unit code = *TNT*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- description 1: language id = *EN*, description = *English Description for measurement unit TNT*.
- description 2: language id = *FR*, description = *French Description for measurement unit TNT*.
- description 3: language id = *NL*, description = *Dutch Description for measurement unit TNT*.
measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = *0*.

Transaction 6:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *BE*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, order number = *094002*, start date = *2008-01-01*, measure sid = *2*, regulation id = *R0801010*, regulation role type = *1*:
 - measure condition 1: condition code = *AA*, sequence number = *1*, measurement unit code = *TNT*, action code = *900*.

Transaction 7:

- Message 1: Insert a stable measurement unit with measurement unit code = *DGT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit DGT*.
 - description 2: language id = *FR*, description = *French Description for measurement unit DGT*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit DGT*.
measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = *0*.

Transaction 8:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *IT*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, order number = *094002*, start date = *2008-01-01*, measure sid = *3*, regulation id = *R0801010*, regulation role type = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

- measure condition 1: condition code = *AA*, sequence number = *1*, measurement unit code = *DGT*, measurement unit qualifier code = *A*, action code = *900*.

Transaction 9:

- Message 1: Insert a stable measurement unit with measurement unit code = *BBB*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit BBB*.
 - description 2: language id = *FR*, description = *French Description for measurement unit BBB*.
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit BBB*.
measurement unit qualifier code = *A*, start date = *2008-01-01*.

qualifier required = *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.

Message:

dm_ref_mu_ass_delete_01.xml

Precondition:

Make sure the *dm_ref_mu_ass_delete_setup_01.xml* message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measurement unit with

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

measurement unit code = *FFF*, start date = *2008-01-01*:

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

qualifier required = *0*.

Transaction 2:

- Message 1: Update the stable measurement unit with measurement unit code = *TFT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TFT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TFT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TFT.*

qualifier required = *0*.

Transaction 3:

- Message 1: Update the stable measurement unit with measurement unit code = *TNT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit TNT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit TNT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit TNT.*

qualifier required = *0*.

Transaction 4:

- Message 1: Update the stable measurement unit with measurement unit code = *DGT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit DGT.*
 - description 2: language id = *FR*, description = *French Description for measurement unit DGT.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit DGT.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT	

qualifier required = 0.

Transaction 5:

- Message 1: Update the stable measurement unit with measurement unit code = *BBB*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit BBB.*
 - description 2: language id = *FR*, description = *French Description for measurement unit BBB.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit BBB.*

qualifier required = 1.

Transaction 6:

- Message 1: Update the stable measurement unit with measurement unit code = *BBB*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for measurement unit BBB.*
 - description 2: language id = *FR*, description = *French Description for measurement unit BBB.*
 - description 3: language id = *NL*, description = *Dutch Description for measurement unit BBB.*

qualifier required = 0.

Transaction 7:

- Message 1: Request the measurement unit with query space field = *MEASUREMENT UNIT.MEASUREMENT UNIT REF.Measurement unit code*, operator = *=*, constant = *BBB*.

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.list : VR-MU-17: The combination of a measurement unit and a measurement unit qualifier cannot be deleted if this combination is used in a dynamic footnote association.

Reply to transaction 2:

- Message 1, on ns3:measurement.unit.ref : VR-MU-18: The combination of a measurement unit and a measurement unit qualifier cannot be deleted if this combination is used in a measure component.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 1, on ns3:measurement.unit.ref : OK.

Reply to transaction 4:

- Message 1, on ns3:measurement.unit.ref : VR-MU-19:
The combination of a measurement unit and a measurement unit qualifier cannot be deleted if this combination is used in a measure condition.

Reply to transaction 5:

- Message 1, on qualifier.required : VR-MU-2: When the "qualifier required" attribute is true, then at least one associated measurement unit qualifier must exist.

Reply to transaction 6:

- Message 1, on ns3:measurement.unit.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

2.5. Measurement unit qualifier

2.5.1. Test case init_ref_measurement_unit_qualifier_setup: Insertion of measurement unit qualifier reference data

Message: init_ref_measurement_unit_qualifier_setup.xml

Precondition: 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:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 1: Insert a stable footnote type with footnote type id = *ACF*, 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 = 9.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, 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 = *ACF*, footnote id = *00800*, 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 4:

- Message 1: Insert a stable country with country id = *FR*, start date = *2000-01-01*, country sid = *1*, area code = *0*:
 - description period 1: start date = *2000-01-01*:
 - 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Transaction 5:

- 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 6:

- Message 1: Insert a stable measure type series with measure type series id = *AA*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of M. Type AA*.
 - description 2: language id = *FR*, description = *French Description of M. Type AA*.
 - description 3: language id = *NL*, description = *Dutch Description of M. Type AA*.

measure type combination = *0*.

Transaction 7:

- Message 1: Insert a stable measure type with measure type id = *001000*, 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 = *SRG*, start date = *2001-01-01*.

trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *0*, order number capture code = *1*, accepted via input bridge = *0*.
- Message 2: Insert a stable measure type with measure type id = *002000*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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 = *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*.

- Message 3: Insert a stable measure type with measure type id = *003000*, 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 = *SRG*, start date = *2001-01-01*.

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

Transaction 8:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2000-01-01*, official journal number = *1*, official journal page = *5*, information text = *test*.

Transaction 9:

- 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 = *Base regulation.*
 - description 2: language id = *FR*, description = *Réglement de base.*
 - description 3: language id = *NL*, description = *Basisverordening.*

Transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 1:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of GN 0100000000.*
 - description 2: language id = FR, description = *French Description of GN 0100000000.*
 - description 3: language id = NL, description = *Dutch Description of GN 0100000000.*
 - indent 1: indent sid = 1, start date = 2000-01-01, indent number = 1.

statistical indicator = 0.

Transaction 11:

- 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 = 3.

Transaction 12:

- 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 13:

- 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 of the duty expression 11.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

French Description of the duty expression 11.

- description 3: language id = *NL*, description = *Dutch Description of the duty expression 11.*

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

Transaction 14:

- Message 1: Insert a stable measure condition code with condition code = *AA*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of MCC AA.*
 - description 2: language id = *FR*, description = *French Description of MCC AA.*
 - description 3: language id = *NL*, description = *Dutch Description of MCC AA.*

Transaction 15:

- Message 1: Insert a stable measure action code with action code = *002*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of MAC 002.*
 - description 2: language id = *FR*, description = *French Description of MAC 002.*
 - description 3: language id = *NL*, description = *Dutch Description of MAC 002.*

Transaction 16:

- Message 1: Insert a stable monetary unit with monetary unit code = *EUR*, start date = *1999-01-01*:
 - description 1: language id = *EN*, description = *English Description of MAC 002.*
 - description 2: language id = *FR*, description = *French Description of MAC 002.*
 - description 3: language id = *NL*, description = *Dutch Description of MAC 002.*

Expected output:

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

Reply to transaction 1:

- Message 1, on language.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 2, on language.ref : OK.

- Message 3, on language.ref : OK.

Reply to transaction 2:

- Message 1, on footnote.type.ref : OK.

Reply to transaction 3:

- Message 1, on footnote.ref : OK.
- Message 2, on footnote.ref : OK.

Reply to transaction 4:

- Message 1, on country.ref : OK.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 7:

- Message 1, on measure.type.ref : OK.
- Message 2, on measure.type.ref : OK.
- Message 3, on measure.type.ref : OK.

Reply to transaction 8:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on regulation.role.type.ref : OK.

Reply to transaction 10:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 11:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 12:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 14:

- Message 1, on measure.condition.code.ref : OK.

Reply to transaction 15:

- Message 1, on measure.action.code.ref : OK.

Reply to transaction 16:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

2.5.2. Test case **dm_ref_muq_insert**: Insertion of a measurement unit qualifier

Message: dm_ref_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = 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.

Transaction 2:

- Message 1: Request the measurement unit qualifier with operator = AND, query space field = MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER REF.Measurement unit qualifier code, operator = =, constant = Z, query space field = MEASUREMENT UNIT QUALIFIER.Start date, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = 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.

Transaction 4:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = z1, start date = 2008/01/01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- 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.*

Transaction 5:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*, end date = *2007-02-08*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *FR*, description = *French Description of X.*
 - description 3: language id = *NL*, description = *Dutch Description of X.*

Transaction 6:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *NL*, description = *Dutch Description of X.*

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-1: The measurement unit qualifier must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measurement.unit.qualifier.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Message: dm_ref_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = 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.

Transaction 2:

- Message 1: Request the measurement unit qualifier with operator = AND, query space field = MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER REF.Measurement unit qualifier code, operator = =, constant = Z, query space field = MEASUREMENT UNIT QUALIFIER.Start date, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- 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.*

Transaction 4:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *z1*, 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.*

Transaction 5:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*, end date = *2007-02-08*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *FR*, description = *French Description of X.*
 - description 3: language id = *NL*, description = *Dutch Description of X.*

Transaction 6:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *NL*, description = *Dutch Description of X.*

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-1: The measurement unit qualifier must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measurement.unit.qualifier.code : 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.

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_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = 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*.

Transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = 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*.

Transaction 3:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French DescriptionFrench Description*.
 - description 3: language id = NL, description = *Dutch Description*.

Transaction 4:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = 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 = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Second French Description.

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

Transaction 5:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *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 = *XX*, description = *Description for a non existent language.*
 - description 4: language id = *NL*, description = *Dutch Description.*

Transaction 6:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *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.*

Transaction 7:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *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.*

Transaction 8:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- 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 measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - 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, 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 '|'.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- 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_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - description 1: language id = EN, description = English Description.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Transaction 2:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 3:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French DescriptionFrench Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 4:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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 measurement unit qualifier with measurement unit qualifier code = *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 = *XX*, description = *Description for a non existent language.*
 - description 4: language id = *NL*, description = *Dutch Description.*

Transaction 6:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *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.*

Transaction 7:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *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.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Transaction 8:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - 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 measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - 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.*

Transaction 10:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = X:
 - 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 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.5.3. Test case **dm_ref_muq_update**: Update of a measurement unit qualifier

Message: **dm_ref_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = 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.*

Transaction 2:

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

Transaction 3:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = S, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of S.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Transaction 4:

- Message 1: Insert an unstable measurement unit with measurement unit code = *RRR*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of RRR*.
 - description 2: language id = *FR*, description = *French Description of RRR*.
 - description 3: language id = *NL*, description = *Dutch Description of RRR*.

measurement unit qualifier code = *S*.

qualifier required = *1*.

Transaction 5:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2008-01-01*, end date = *2008-12-01*, condition code = *AA*, action code = *002*, measurement unit code = *RRR*, measurement unit qualifier code = *S*, condition amount indicator = *0*.

Transaction 6:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *R*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of R*.
 - description 2: language id = *FR*, description = *French Description of R*.
 - description 3: language id = *NL*, description = *Dutch Description of R*.

Transaction 7:

- Message 1: Insert an unstable measurement unit with measurement unit code = *BLB*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of BLB*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

French Description of BLB.

- description 3: language id = *NL*, description = *Dutch Description of BLB.*
measurement unit qualifier code = *R*, start date = *2008-01-01*, end date = *2008-12-01*.

qualifier required = *1*.

Transaction 8:

- Message 1: Insert a stable measurement unit with measurement unit code = *VRT*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of VRT.*
 - description 2: language id = *FR*, description = *French Description of VRT.*
 - description 3: language id = *NL*, description = *Dutch Description of VRT.*
measurement unit qualifier code = *X*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 9:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *FR*, start date = *2008-01-01*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, order number = *094002*, start date = *2008-01-01*, regulation id = *R0801010*, regulation role type = *1*:
 - measure component 1: duty expression id = *11*, measurement unit code = *VRT*, measurement unit qualifier code = *X*, monetary unit code = *EUR*.

Transaction 10:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *W*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of W.*
 - description 2: language id = *FR*, description = *French Description of W.*
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Dutch Description of W.

Transaction 11:

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

measurement unit qualifier code = *W*, start date = *2008-01-01*.

qualifier required = *1*.

Transaction 12:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00800*, start date = *2008-01-01*, end date = *2008-12-01*, condition code = *AA*, action code = *002*, measurement unit code = *GGG*, measurement unit qualifier code = *W*, condition amount indicator = *1*.

Transaction 13:

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

Transaction 14:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Dutch Description of RGB.

measurement unit qualifier code = *T*, start date = *2008-01-01*, end date = *2008-12-01*.

qualifier required = *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.

Message:

dm_ref_muq_update_01.xml

Precondition:

Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = *Z*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Z updated.*
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

French Description of Z updated.

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

Transaction 2:

- Message 1: Request the measurement unit qualifier with operator = *AND*, query space field = *MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER REF.Measurement unit qualifier code*, operator = *=*, constant = *Z*, query space field = *MEASUREMENT UNIT QUALIFIER.Start date*, operator = *=*, constant = *2008-01-01*.

Transaction 3:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = *V*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of V updated.*
 - description 2: language id = *FR*, description = *French Description of V updated.*
 - description 3: language id = *NL*, description = *Dutch Description of V updated.*

Transaction 4:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *Z*, start date = *2008-01-01*, end date = *2007-02-08*:
 - description 1: language id = *EN*, description = *English Description of Z updated.*
 - description 2: language id = *FR*, description = *French Description of Z updated.*
 - description 3: language id = *NL*, description = *Dutch Description of Z updated.*

Transaction 6:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *FR*, description = *French Description of X.*
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Dutch Description of X.

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measurement.unit.qualifier.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 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.

Message:

dm_ref_muq_update_02.xml

Precondition:

Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Z updated.*
 - description 2: language id = FR, description = *French Description of Z updated.*
 - description 3: language id = NL, description = *Dutch Description of Z updated.*

Transaction 2:

- Message 1: Request the measurement unit qualifier with operator = AND, query space field = *MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

REF.Measurement unit qualifier code, operator = =, constant = Z, query space field = MEASUREMENT UNIT QUALIFIER.Start date, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = V, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of V updated.*
 - description 2: language id = FR, description = *French Description of V updated.*
 - description 3: language id = NL, description = *Dutch Description of V updated.*

Transaction 4:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01, end date = 2007-02-08:
 - description 1: language id = EN, description = *English Description of Z updated.*
 - description 2: language id = FR, description = *French Description of Z updated.*
 - description 3: language id = NL, description = *Dutch Description of Z updated.*

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measurement.unit.qualifier.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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Message: **dm_ref_muq_update_03.xml**

Precondition: Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of X updated.*
 - description 2: language id = FR, description = *French Description of X updated.*
 - description 3: language id = NL, description = *Dutch Description of X updated.*

Transaction 2:

- Message 1: Request the measurement unit qualifier with operator = AND, query space field = *MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER REF.Measurement unit qualifier code*, operator = =, constant = X, query space field = *MEASUREMENT UNIT QUALIFIER.Start date*, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = V, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of V updated.*
 - description 2: language id = FR, description = *French Description of V updated.*
 - description 3: language id = NL, description = *Dutch Description of V updated.*

Transaction 4:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = X, start date = 2008-01-01, end date = 2007-02-08:
 - description 1: language id = EN, description = *English Description of X updated.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

French Description of X updated.

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

Transaction 5:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *X*, start date = *2008-01-01*, end date = *2008-05-01*:
 - description 1: language id = *EN*, description = *English Description of X.*
 - description 2: language id = *FR*, description = *French Description of X.*
 - description 3: language id = *NL*, description = *Dutch Description of X.*

Transaction 6:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *W*, start date = *2008-01-01*, end date = *2008-05-01*:
 - description 1: language id = *EN*, description = *English Description of W.*
 - description 2: language id = *FR*, description = *French Description of W.*
 - description 3: language id = *NL*, description = *Dutch Description of W.*

Transaction 7:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *T*, start date = *2008-01-01*, end date = *2008-05-01*:
 - description 1: language id = *EN*, description = *English Description of T.*
 - description 2: language id = *FR*, description = *French Description of T.*
 - description 3: language id = *NL*, description = *Dutch Description of T.*

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measurement.unit.qualifier.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 measurement.unit.qualifier.ref : VR-MUQ-3: The validity period of the measurement unit qualifier must span the validity period of the stable measures in which it is referenced.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-5: The validity period of the measurement unit qualifier must span the validity period of all related stable measurement unit qualifier associations.

Reply to transaction 6:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-4: The validity period of the measurement unit qualifier must span the validity period of all related stable dynamic footnote associations.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-5: The validity period of the measurement unit qualifier must span the validity period of all related stable measurement unit qualifier associations.

Reply to transaction 7:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-5: The validity period of the measurement unit qualifier must span the validity period of all related stable measurement unit qualifier associations.

Message: dm_ref_muq_update_04.xml

Precondition: Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = S:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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 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_muq_update_05.xml

Precondition:

Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = *X*:
 - description 1: language id = *EN*, description = *English Description X.*
 - description 2: language id = *FR*, description = *French Description X.*
 - description 3: language id = *NL*, description = *Dutch Description X.*

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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

2.5.4. Test case **dm_ref_muq_delete**: Deletion of a measurement unit Qualifier

Message: **dm_ref_muq_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_measurement_unit_qualifier_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 condition code with condition code = *I*, start date = *1999-01-01*:
 - 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*.

Transaction 2:

- Message 1: Insert an unstable measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 3:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Transaction 5:

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

measurement unit qualifier code = X, start date = 2008-01-01.

qualifier required = 1.

Transaction 6:

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

Transaction 7:

- Message 1: Insert a stable measurement unit with measurement unit code = SMU, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SMU.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

French Description of SMU.

- description 3: language id = *NL*, description = *Dutch Description of SMU.*
measurement unit qualifier code = *S*, start date = *2008-01-01.*

qualifier required = *1.*

Transaction 8:

- Message 1: Insert a stable measure with measure type id = *001000*, geographical area id = *FR*, start date = *2008-01-01*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, order number = *094002*, start date = *2008-01-01*, regulation id = *R0801010*, regulation role type = *1*:
 - measure component 1: duty expression id = *11*, measurement unit code = *SMU*, measurement unit qualifier code = *S*, monetary unit code = *EUR.*

Transaction 9:

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

Transaction 10:

- Message 1: Insert a stable measurement unit with measurement unit code = *TMU*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of TMU.*
 - description 2: language id = *FR*, description = *French Description of TMU.*
 - description 3: language id = *NL*, description = *Dutch Description of TMU.*
measurement unit qualifier code = *R*, start date = *2008-01-01.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

qualifier required = 1.

Transaction 11:

- Message 1: Insert a stable measure with measure type id = 002000, geographical area id = FR, start date = 2008-01-01, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, order number = 094002, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1:
 - measure condition 1: condition code = AA, sequence number = 01, measurement unit code = TMU, measurement unit qualifier code = R, action code = 900.

Transaction 12:

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

Transaction 13:

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

measurement unit qualifier code = Q, start date = 2008-01-01.

qualifier required = 1.

Transaction 14:

- Message 1: Insert a stable measure with measure type id = 003000, geographical area id = FR, start date = 2008-01-01, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, order number =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

094002, start date = 2008-01-01, regulation id = R0801010, regulation role type = 1:

- measure condition 1: condition code = 1, sequence number = 1, duty amount = 13:
 - measure component 1: duty expression id = 11, measurement unit code = CMU, measurement unit qualifier code = Q, monetary unit code = EUR, action code = 900.

Transaction 15:

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

Transaction 16:

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

measurement unit qualifier code = V, start date = 2008-01-01.

qualifier required = 1.

Transaction 17:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = ACF, footnote id = 00700, start date = 2008-01-01, end date = 2008-12-01, condition code = AA, action code = 002, measurement unit code = QMU, measurement unit qualifier code = V, condition amount indicator = 1.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

output: 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.

Message: **dm_ref_muq_delete_01.xml**

Precondition: Make sure the *dm_ref_muq_delete_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = Z.

Transaction 2:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = Y.

Transaction 3:

- Message 1: Request the measurement unit qualifier with operator = AND, query space field = MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

REF.Measurement unit qualifier code, operator = =, constant = Z, query space field = MEASUREMENT UNIT QUALIFIER.Start date, operator = =, constant = 2008-01-01.

- Message 2: Request the measurement unit qualifier with operator = AND, query space field = MEASUREMENT UNIT QUALIFIER.MEASUREMENT UNIT QUALIFIER REF.Measurement unit qualifier code, operator = =, constant = Y, query space field = MEASUREMENT UNIT QUALIFIER.Start date, operator = =, constant = 2008-01-01.

Transaction 4:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = Z.

Transaction 5:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = Y.

Transaction 6:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = X.

Transaction 7:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = S.

Transaction 8:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = R.

Transaction 9:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = Q.

Transaction 10:

- Message 1: Delete the measurement unit qualifier with measurement unit qualifier code = V.

Expected output:

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

Reply to transaction 1:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 2:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 3:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- Message 2 : OK.

Reply to transaction 4:

- Message 1, on measurement.unit.qualifier.ref : VR-VI-3:
Data to be deleted must exist.

Reply to transaction 5:

- Message 1, on measurement.unit.qualifier.ref : VR-VI-3:
Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-7: If the measurement unit qualifier is associated with a measurement unit then the measurement unit qualifier cannot be deleted.

Reply to transaction 7:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-7: If the measurement unit qualifier is associated with a measurement unit then the measurement unit qualifier cannot be deleted.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-8: A measurement unit qualifier cannot be deleted if used in a measure component.

Reply to transaction 8:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-7: If the measurement unit qualifier is associated with a measurement unit then the measurement unit qualifier cannot be deleted.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-10: A measurement unit qualifier cannot be deleted if used in a measure condition.

Reply to transaction 9:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-7: If the measurement unit qualifier is associated with a measurement unit then the measurement unit qualifier cannot be deleted.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-9: A measurement unit qualifier cannot be deleted if used in a measure condition component.

Reply to transaction 10:

- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-7: If the measurement unit qualifier is associated with a measurement unit then the measurement unit qualifier cannot be deleted.
- Message 1, on measurement.unit.qualifier.ref : VR-MUQ-11: A measurement unit qualifier cannot be

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

deleted if used in a dynamic footnote association.

2.5.5. Test case **dm_ref_muq_di_update**: Update of a measurement unit description

Message: dm_ref_muq_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_measurement_unit_qualifier_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 measurement unit qualifier with measurement unit qualifier code = 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.*

Transaction 2:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = 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.*

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_muq_di_update_01.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Precondition: Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = 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.*

Transaction 2:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = 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.*

Transaction 3:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = 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 ZFrench Descriptionaaaaaaaaaaaaaaaa(1500 characters)*
 - description 3: language id = NL, description = *Dutch Description of Z.*

Transaction 4:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

- 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 = *French Description of Z two.*
- description 4: language id = *NL*, description = *Dutch Description of Z.*

Transaction 5:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = *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.*
 - description 4: language id = *XX*, description = *XX Description of Z.*

Transaction 6:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = *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.*

Transaction 7:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = *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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Dutch Description of Z.

Transaction 8:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = 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.*

Transaction 9:

- Message 1: Update the unstable measurement unit qualifier with measurement unit qualifier code = 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.*

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.
- 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

language.

Reply to transaction 5:

- 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 '!'.
- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Message: **dm_ref_muq_di_update_02.xml**

Precondition: Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 2:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 3:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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*
French Descriptionaaaaaaaa... (1500 characters)
 - description 3: language id = *NL*, description = *Dutch Description of Y*.

Transaction 4:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *Y*, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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 = *FR*, description = *French Description of Y two*.
- description 4: language id = *NL*, description = *Dutch Description of Y*.

Transaction 5:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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*.
 - description 4: language id = *XX*, description = *XX Description of Y*.

Transaction 6:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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*.

Transaction 7:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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

Transaction 8:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *Y*, 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.*

Transaction 9:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *Y*, 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.*

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.
- 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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

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.

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.

Message: dm_ref_muq_di_update_03.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Precondition: Make sure the *dm_ref_muq_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 measurement unit qualifier with measurement unit qualifier code = 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.

Transaction 2:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = 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".

Transaction 3:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = 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 ZFrench Descriptionaaaaaaaa... (1500 characters)
 - description 3: language id = NL, description = Dutch Description of Z.

Transaction 4:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01:
 - description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

English Description of Z.

- description 2: language id = *FR*, description = *French Description of Z.*
- description 3: language id = *FR*, description = *French Description of Z two.*
- description 4: language id = *NL*, description = *Dutch Description of Z.*

Transaction 5:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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.*
 - description 4: language id = *XX*, description = *XX Description of Z.*

Transaction 6:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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.*

Transaction 7:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = *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.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
MEASUREMENT UNIT QUALIFIER	

Transaction 8:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = 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.

Transaction 9:

- Message 1: Update the stable measurement unit qualifier with measurement unit qualifier code = 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.

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.
- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

- 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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

2.6. Publication sigle

2.6.1. Test case dm_ref_ps_insert: Insertion of a publication sigle

Message: dm_ref_ps_insert_01.xml

Precondition: Make sure the database is empty first.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *111*, end date = *2001-01-01*, publication code = *0*.

Transaction 2:

- Message 1: Request the publication sigle with query space field = *PUBLICATION SIGLE.PUBLICATION SIGLE REF.Publication sigle sid*, operator = *=*, constant = *111*.

Transaction 3:

- Message 1: Insert a stable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication code = *0*.

Transaction 4:

- Message 1: Insert a stable publication sigle with code type id = *mo*, code = *eur*, start date = *2000/01/01*, publication sigle sid = *1ab*, publication code = *0*.

Transaction 5:

- Message 1: Insert a stable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2002-01-01*, end date = *2001-01-02*, publication code = *0*.

Transaction 6:

- Message 1: Insert a stable publication sigle with code type id = *INV*, code = *EUR*, start date = *2001-01-02*, end date = *2002-01-01*, publication code = *0*.

Transaction 7:

- Message 1: Insert a stable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2001-01-02*, end date = *2002-01-01*, publication code = *5*.

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 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

- Message 1, on publication.sigle.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on publication.sigle.ref : VR-PS-1: The combination of sigle type, sigle code and validity start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on publication.sigle.sid : 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 code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 7:

- Message 1, on publication.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Message: dm_ref_ps_insert_02.xml

Precondition: Make sure the database is empty first.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable publication sigle with code type id = DE, code = ZZZ, start date = 2000-01-01, publication sigle sid = 1110, end date = 2001-01-01, publication code = 0.

Transaction 2:

- Message 1: Request the publication sigle with query space field = PUBLICATION SIGLE.PUBLICATION SIGLE REF.Publication sigle sid, operator = =, constant = 1110.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

Transaction 3:

- Message 1: Insert an unstable publication sigle with code type id = *DE*, code = *ZZZ*, start date = *2000-01-01*, publication code = *0*.

Transaction 4:

- Message 1: Insert an unstable publication sigle with code type id = *DE*, code = *YYY*, start date = *2000-01-01*, publication sigle sid = *lab*, publication code = *0*.

Transaction 5:

- Message 1: Insert an unstable publication sigle with code type id = *DE*, code = *XXX*, start date = *2002-01-01*, end date = *2001-01-02*, publication code = *0*.

Transaction 6:

- Message 1: Insert an unstable publication sigle with code type id = *INV*, code = *XXX*, start date = *2001-01-02*, end date = *2002-01-01*, publication code = *0*.

Transaction 7:

- Message 1: Insert an unstable publication sigle with code type id = *DE*, code = *XXX*, start date = *2001-01-02*, end date = *2002-01-01*, publication code = *5*.

Expected output:

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

Reply to transaction 1:

- Message 1, on publication.sigle.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on publication.sigle.ref : VR-PS-1: The combination of sigle type, sigle code and validity start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on publication.sigle.sid : 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 code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

Reply to transaction 7:

- Message 1, on publication.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Message: dm_ref_ps_insert_03.xml

Precondition: Make sure the database is empty first.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable publication sigle with code type id = *MOU*, code = *XXX*, publication code = 0.

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.

2.6.2. Test case dm_ref_ps_update: Update of a publication sigle

Message: dm_ref_ps_update_setup_01.xml

Precondition: Make sure the database is empty first.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *999*, end date = *2001-01-01*, publication code = 0.

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

Reply to transaction 1: Status ok.

Message: dm_ref_ps_update_setup_02.xml

Precondition: Make sure the *dm_ref_ps_update_setup_01.xml* message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *900*, end date = *2001-01-01*, publication code = *0*.

Transaction 2:

- Message 1: Insert an unstable publication sigle with code type id = *NG*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *901*, end date = *2001-01-01*, publication code = *0*.

Transaction 3:

- Message 1: Insert an unstable publication sigle with code type id = *ACT*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *902*, end date = *2001-01-01*, publication code = *0*.

Transaction 4:

- Message 1: Insert a stable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *903*, end date = *2001-01-01*, publication code = *0*.

Transaction 5:

- Message 1: Insert an unstable publication sigle with code type id = *NG*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *904*, end date = *2001-01-01*, publication code = *0*.

Transaction 6:

- Message 1: Insert an unstable publication sigle with code type id = *ACT*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *905*, end date = *2001-01-01*, publication code = *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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

Message: **dm_ref_ps_update_01.xml**

Precondition: Make sure the dm_ref_ps_update_setup_01.xml and dm_ref_ps_update_setup_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *999*, end date = *2001-01-01*, publication code = *0*, publication sigle = *EUR*.

Transaction 2:

- Message 1: Request the publication sigle with query space field = *PUBLICATION SIGLE.PUBLICATION SIGLE REF.Publication sigle sid*, operator = *=*, constant = *999*.

Transaction 3:

- Message 1: Update the unstable publication sigle with code type id = *MOU*, code = *NEX*, start date = *2000-01-01*, publication sigle sid = *2*, end date = *2001-01-01*, publication code = *0*, publication sigle = *not exist*.

Transaction 4:

- Message 1: Update the unstable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *999*, end date = *1990-01-01*, publication code = *0*, publication sigle = *EUR*.

Transaction 5:

- Message 1: Update the unstable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *999*, end date = *2001-01-02*, publication code = *9*, publication sigle = *EUR*.

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

Reply to transaction 1:

- Message 1, on publication.sigle.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

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 publication.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Message: dm_ref_ps_update_02.xml

Precondition: Make sure the dm_ref_ps_update_setup_01.xml and dm_ref_ps_update_setup_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *900*, end date = *2001-01-01*, publication code = *0*.

Transaction 2:

- Message 1: Update the stable publication sigle with code type id = *TEST*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *900*, end date = *2001-01-01*, publication code = *0*.

Transaction 3:

- Message 1: Update the stable publication sigle with code type id = *COND*, code = *DTM*, publication sigle sid = *900*, end date = *2001-01-01*, publication code = *0*.

Transaction 4:

- Message 1: Update the stable publication sigle with code type id = *COND*, code = *TSTAB*, start date = *2000-07-14*, publication sigle sid = *920*, end date = *2001-01-01*, publication code = *0*.

Transaction 5:

- Message 1: Insert a stable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *900*, end date = *2000-01-01*, publication code = *0*.

Transaction 6:

- Message 1: Insert a stable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *900*, end date = *2001-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

publication code = 9.

Expected output:

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

Reply to transaction 1:

- Message 1, on publication.sigle.ref : VR-PS-1: The combination of sigle type, sigle code and validity start date must be unique in the universe of the stable and unstable data.

Reply to transaction 2:

- Message 1, on code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

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:

- Message 1, on publication.sigle.ref : VR-VI-1: Data to be updated 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 publication.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Message: dm_ref_ps_update_03.xml

Precondition: Make sure the dm_ref_ps_update_setup_01.xml and dm_ref_ps_update_setup_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable publication sigle with code type id = NG, code = DTM, start date = 2000-01-01, publication sigle sid = 901, end date = 2001-01-01, publication code = 0.

Transaction 2:

- Message 1: Update the stable publication sigle with code type id = TEST, code = DTM, start date = 2000-07-14,

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

publication sigle sid = 901, end date = 2001-01-01,
publication code = 0.

Transaction 3:

- Message 1: Update the stable publication sigle with code type id = NG, code = DTM, publication sigle sid = 901, end date = 2001-01-01, publication code = 0.

Transaction 4:

- Message 1: Update the stable publication sigle with code type id = NG, code = DTM, start date = 2000-07-14, publication sigle sid = 901, end date = 2000-01-01, publication code = 0.

Transaction 5:

- Message 1: Update the stable publication sigle with code type id = NG, code = DTM, start date = 2000-07-14, publication sigle sid = 901, end date = 2001-01-01, publication code = 9.

Transaction 6:

- Message 1: Update the unstable publication sigle with code type id = MQC, code = RRR, start date = 2000-01-01, publication sigle sid = 930, end date = 2000-01-01, publication code = 0.

Expected output:

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

Reply to transaction 1:

- Message 1, on publication.sigle.ref : VR-PS-1: The combination of sigle type, sigle code and validity start date must be unique in the universe of the stable and unstable data.

Reply to transaction 2:

- Message 1, on code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

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:

- 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 publication.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

Reply to transaction 6:

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

Message: **dm_ref_ps_update_04.xml**

Precondition: Make sure the dm_ref_ps_update_setup_01.xml and dm_ref_ps_update_setup_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable publication sigle with code type id = *ACT*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *902*, end date = *2001-01-01*, publication code = *0*.

Transaction 2:

- Message 1: Update the unstable publication sigle with code type id = *TEST*, code = *DTM*, start date = *2000-01-01*, publication sigle sid = *902*, end date = *2001-01-01*, publication code = *0*.

Transaction 3:

- Message 1: Update the unstable publication sigle with code type id = *COND*, code = *DTM*, start date = *2000-07-14*, publication sigle sid = *900*, publication code = *0*.

Expected output:

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

Reply to transaction 1:

- Message 1, on publication.sigle.ref : VR-PS-1: The combination of sigle type, sigle code and validity start date must be unique in the universe of the stable and unstable data.

Reply to transaction 2:

- Message 1, on code.type.id : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 3:

- Message 1, on publication.sigle.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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

2.6.3. Test case **dm_ref_ps_delete**: Deletion of a publication sigle

Message: **dm_ref_ps_delete_setup_01.xml**

Precondition: Make sure the database is empty first.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable publication sigle with code type id = *MOU*, code = *EUR*, start date = *2000-01-01*, publication sigle sid = *11110000*, end date = *2001-01-01*, publication code = *0*.

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

Reply to transaction 1: Status ok.

Message: **dm_ref_ps_delete_01.xml**

Precondition: Make sure the message *dm_ref_ps_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 publication sigle with publication sigle sid = *11110000*.

Transaction 2:

- Message 1: Request the publication sigle with query space field = *PUBLICATION SIGLE.PUBLICATION SIGLE REF.Publication sigle sid*, operator = *=*, constant = *11110000*.

Transaction 3:

- Message 1: Delete the publication sigle with publication sigle sid = *11110000*.

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

Reply to transaction 1:

- Message 1, on publication.sigle.sid : OK.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
DATA MAINTENANCE	Ref: TARIC3-STP
PUBLICATION SIGLE	

- Message 1: OK.

Reply to transaction 3:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
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_fo_insert	Status
Message id	dm_ref_fo_insert_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
Message id	dm_ref_fo_insert_02.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
Message id	dm_ref_fo_insert_03.xml	Status
Transaction id	Status	Comment

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 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

1

Message id	dm_ref_fo_insert_04.xml	Status
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Transaction id	Status	Comment
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1

2

3

Message id	dm_ref_fo_di_insert_01.xml	Status
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Transaction id	Status	Comment
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9

Message id	dm_ref_fo_di_insert_02.xml	Status
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Transaction id	Status	Comment
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9

Test case id	dm_ref_fo_update	Status
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Message id	dm_ref_fo_update_setup_01.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

23
24
25
26
27
28
29

Message id	dm_ref_fo_update_setup_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		

Message id	dm_ref_fo_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
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8		
9		
10		

Message id	dm_ref_fo_update_02.xml	Status
Transaction id	Status	Comment
1		
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10		
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14		
15		
16		

Message id	dm_ref_fo_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Message id	dm_ref_fo_update_05.xml	Status
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Transaction id	Status	Comment
1		
2		

Message id	dm_ref_fo_update_06.xml	Status
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Transaction id	Status	Comment
1		
2		

Test case id	dm_ref_fo_delete	Status
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Message id	dm_ref_fo_delete_setup_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		

Message id	dm_ref_fo_delete_setup_02.xml	Status
------------	-------------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		
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7		
8		
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11		
12		
13		
14		

Message id	dm_ref_fo_delete_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_ref_fo_delete_02.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4
5
6

Message id	dm_ref_la_insert_03.xml	Status
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Transaction id	Status	Comment
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1
2
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4
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6
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8
9

Message id	dm_ref_la_insert_04.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_ref_la_update	Status
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Message id	dm_ref_la_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1
2

Message id	dm_ref_la_update_01.xml	Status
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Transaction id	Status	Comment
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1
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Message id	dm_ref_la_update_02.xml	Status
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Transaction id	Status	Comment
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Message id	dm_ref_la_update_03.xml	Status
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Transaction id	Status	Comment
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5

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ref_la_update_04.xml	Status
Transaction id	Status	Comment
	1	

Message id	dm_ref_la_update_05.xml	Status
Transaction id	Status	Comment
	1	

Test case id	dm_ref_la_delete	Status
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Message id	dm_ref_la_delete_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

Message id	dm_ref_la_delete_02.xml	Status
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Transaction id	Status	Comment
	1	

Test case id	dm_ref_la_di_update	Status
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Message id	dm_ref_la_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
	1	
	2	

Message id	dm_ref_la_di_update_01.xml	Status
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Transaction id	Status	Comment
	1	
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	3	
	4	
	5	
	6	
	7	
	8	
	9	

Message id	dm_ref_la_di_update_02.xml	Status
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Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	

Message id	dm_ref_la_di_update_03.xml	Status
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Transaction id	Status	Comment
	1	
	2	
	3	
	4	

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Test case id	dm_ref_dfar_insert	Status
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Message id	dm_ref_dfar_insert_01.xml	Status
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Transaction id	Status	Comment
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18

Message id	dm_ref_dfar_insert_02.xml	Status
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Transaction id	Status	Comment
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1
2
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8

Test case id	dm_ref_dfar_update	Status
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Message id	dm_ref_dfar_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1
2

Message id	dm_ref_dfar_update_setup_02.xml	Status
------------	---------------------------------	--------

Transaction id	Status	Comment
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1
2

Message id	dm_ref_dfar_update_01.xml	Status
------------	---------------------------	--------

Transaction id	Status	Comment
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1
2
3
4
5
6

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

7
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11
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13
14

Message id	dm_ref_dfar_update_02.xml	Status
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Transaction id	Status	Comment
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1
2
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4
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13

Message id	dm_ref_dfar_update_03.xml	Status
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Transaction id	Status	Comment
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1
2
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4
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7
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11
12

Message id	dm_ref_dfar_update_04.xml	Status
------------	---------------------------	--------

Transaction id	Status	Comment
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1

Test case id	dm_dfar_fo_delete	Status
--------------	-------------------	--------

Message id	dm_ref_dfar_delete_setup_01.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1

Message id	dm_ref_dfar_delete_01.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Test case id	dm_ref_mu_insert	Status
--------------	------------------	--------

Message id	dm_ref_mu_insert_01.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4
5
6
7

Message id	dm_ref_mu_insert_02.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8

Message id	dm_ref_mu_insert_03.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9
10

Message id	dm_ref_mu_insert_04.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9
10
11

Test case id	dm_ref_mu_update	Status
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Message id	dm_ref_mu_update_setup_01.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Message id	dm_ref_mu_update_01.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ref_mu_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		

Message id	dm_ref_mu_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		

Message id	dm_ref_mu_update_04.xml	Status
Transaction id	Status	Comment
1		

Message id	dm_ref_mu_update_05.xml	Status
Transaction id	Status	Comment
1		
2		
3		

Message id	dm_ref_mu_update_06.xml	Status
Transaction id	Status	Comment
1		
2		
3		

Test case id	dm_ref_mu_delete	Status
--------------	------------------	--------

Message id	dm_ref_mu_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Message id	dm_ref_mu_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6
7
8
9

Test case id	dm_ref_mu_di_update	Status
Message id	dm_ref_mu_di_update_setup_01.xml	Status
Transaction id	Status	Comment

1
2

Message id	dm_ref_mu_di_update_01.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8
9

Message id	dm_ref_mu_di_update_02.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8
9

Message id	dm_ref_mu_di_update_03.xml	Status
Transaction id	Status	Comment

1
2
3
4
5
6
7
8
9

Test case id	dm_ref_mu_ass_insert	Status
Message id	dm_ref_mu_ass_insert_01.xml	Status
Transaction id	Status	Comment

1
2
3
4

Message id	dm_ref_mu_ass_insert_02.xml	Status
Transaction id	Status	Comment

1
2

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

3
4
5

Test case id	dm_ref_mu_ass_update	Status
--------------	----------------------	--------

Message id	dm_ref_mu_ass_setup_01.xml	Status
------------	----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2

Message id	dm_ref_mu_ass_update_01.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Message id	dm_ref_mu_ass_update_02.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Message id	dm_ref_mu_ass_update_03.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

Test case id	dm_ref_mu_ass_delete	Status
--------------	----------------------	--------

Message id	dm_ref_mu_ass_delete_setup_01.xml	Status
------------	-----------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9

Message id	dm_ref_mu_ass_update_01.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5

Test case id	dm_ref_muq_insert	Status
--------------	-------------------	--------

Message id	dm_ref_muq_insert_01.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6

Message id	dm_ref_muq_insert_02.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 1
- 2
- 3
- 4
- 5
- 6

Message id	dm_ref_muq_insert_03.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Message id	dm_ref_muq_insert_04.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Test case id	dm_ref_muq_update	Status
--------------	-------------------	--------

Message id	dm_ref_muq_update_setup_01.xml	Status
------------	--------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Message id	dm_ref_muq_update_01.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

3
4
5
6

Message id	dm_ref_muq_update_02.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8

Message id	dm_ref_muq_update_03.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8

Message id	dm_ref_muq_update_04.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9

Message id	dm_ref_muq_update_05.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3
4
5
6
7
8
9
10

Test case id	dm_ref_muq_delete	Status
--------------	-------------------	--------

Message id	dm_ref_muq_delete_setup_01.xml	Status
------------	--------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1
2
3

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Message id	dm_ref_muq_delete_01.xml	Status
------------	--------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

Test case id	dm_ref_muq_di_update	Status
--------------	----------------------	--------

Message id	dm_ref_muq_di_update_setup_01.xml	Status
------------	-----------------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2

Message id	dm_ref_muq_di_update_01.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Message id	dm_ref_muq_di_update_02.xml	Status
------------	-----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9

Message id	dm_ref_muq_di_update_03.xml	Status
------------	-----------------------------	--------

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Test case id	dm_ref_ps_insert	Status
--------------	------------------	--------

Message id	dm_ref_ps_insert_01.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_ref_ps_insert_02.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_ref_ps_insert_03.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
1		

Test case id	dm_ref_ps_update	Status
--------------	------------------	--------

Message id	dm_ref_ps_update_setup_01.xml	Status
------------	-------------------------------	--------

Transaction id	Status	Comment
1		

Message id	dm_ref_ps_update_setup_02.xml	Status
------------	-------------------------------	--------

Transaction id	Status	Comment
1		
2		
3		

Message id	dm_ref_ps_update_01.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		

Message id	dm_ref_ps_update_02.xml	Status
------------	-------------------------	--------

Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 3	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4
5

Message id	dm_ref_ps_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		

Message id	dm_ref_ps_update_04.xml	Status
Transaction id	Status	Comment
1		
2		
3		

Test case id	dm_ref_ps_delete	Status
Message id	dm_ref_ps_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		

Message id	dm_ref_ps_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		