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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DOCUMENT HISTORY	Ref: TARIC3-STP

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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

TABLE OF CONTENTS

DOCUMENT HISTORY	1
1. INTRODUCTION	6
1.1. Objective of this document	6
1.2. Structure of this document	6
1.3. Intended audience	6
1.4. Abbreviations and acronyms.....	6
1.5. Reference documents	7
1.6. Applicable documents.....	7
2. DATA MAINTENANCE.....	8
2.1. Nomenclature group.....	8
2.1.1. Test case dm_ref_ng_insert: Insertion of a nomenclature group	8
2.1.2. Test case dm_ref_ng_update: Update of a nomenclature group	35
2.1.3. Test case dm_ref_ng_delete: Deletion of a nomenclature group	80
2.2. Legal regulation	82
2.2.1. Test case init_ref_legal_regulation_setup: Insertion of legal regulation reference data	82
2.2.2. Test case dm_reg_insert: Insertion of a legal regulation.....	84
2.2.3. Test case dm_reg_update: Update of a legal regulation.....	88
2.2.4. Test case dm_reg_delete: Deletion of a legal regulation	93
2.3. Base regulation	96
2.3.1. Test case dm_bas_setup_01.xml: Insertion of base regulation reference data.	96
2.3.2. Test case dm_bas_insert_01.xml: Insertion of an unstable base regulation.....	103
2.3.3. Test case dm_bas_insert_02.xml: Insertion of a stable base regulation.....	107
2.3.4. Test case dm_bas_update_setup_01.xml: Insertion of update base regulation reference data.	113
2.3.5. Test case dm_bas_update_setup_02.xml: Insertion of update base regulation reference data.	117
2.3.6. Test case dm_bas_update_setup_03.xml: Insertion of update base regulation reference data.	122
2.3.7. Test case dm_bas_update_setup_04.xml: Insertion of update base regulation reference data.	141

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- 2.3.8. Test case dm_bas_update_01.xml: Update unstable to unstable base regulation..... 156
- 2.3.9. Test case dm_bas_update_02.xml: Update of unstable to stable base regulation..... 160
- 2.3.10. Test case dm_bas_update_03.xml: Update of unstable to stable base regulation..... 166
- 2.3.11. Test case dm_bas_update_04.xml: Update of unstable to stable base regulation..... 171
- 2.3.12. Test case dm_bas_update_05.xml: Update of unstable to stable base regulation..... 183
- 2.3.13. Test case dm_bas_update_06.xml: Update of unstable to stable base regulation..... 186
- 2.3.14. Test case dm_bas_delete_setup_01.xml: Insertion of delete base regulation reference data. 189
- 2.3.15. Test case dm_bas_delete_01.xml: Deletion of a base regulation reference data. 195
- 2.4. Modification regulation 198
 - 2.4.1. Test case dm_mod_setup_01.xml: Insertion of modification regulation reference data. 198
 - 2.4.2. Test case dm_mod_insert_01.xml: Insertion of an unstable modification regulation. 206
 - 2.4.3. Test case dm_mod_insert_02.xml: Insertion of a stable modification regulation. 210
 - 2.4.4. Test case dm_mod_update_setup_01.xml: Insertion of update modification regulation reference data..... 214
 - 2.4.5. Test case dm_mod_update_setup_02.xml: Insertion of update modification regulation reference data..... 218
 - 2.4.6. Test case dm_mod_update_setup_03.xml: Insertion of update modification regulation reference data..... 224
 - 2.4.7. Test case dm_mod_update_setup_04.xml: Insertion of update modification regulation reference data..... 238
 - 2.4.8. Test case dm_mod_update_01.xml: Update of unstable to unstable modification regulation. 253
 - 2.4.9. Test case dm_mod_update_02.xml: Update of unstable to stable modification regulation. 255
 - 2.4.10. Test case dm_mod_update_03.xml: Update of stable to stable modification regulation. 258
 - 2.4.11. Test case dm_mod_update_04.xml: Update of stable to stable modification regulation. 262
 - 2.4.12. Test case dm_mod_update_05.xml: Update of stable to stable modification regulation. 272

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.4.13.	Test case dm_mod_delete_setup_01.xml: Insertion of delete modification regulation reference data.....	275
2.4.14.	Test case dm_mod_delete_01.xml: Deletion of a modification regulation.....	280
2.5.	Prorogation regulation	282
2.5.1.	Test case init_ref_prorogation_regulation_setup: Insertion of prorogation regulation reference data.....	282
2.5.2.	Test case dm_pror_unstable_insert: Insert an unstable prorogation regulation.....	292
2.5.3.	Test case dm_pror_unstable_update: Update an unstable prorogation regulation	301
2.5.4.	Test case dm_pror_unstable_delete: Delete an unstable prorogation regulation.....	304
2.5.5.	Test case dm_pror_stable_insert: Insert a stable prorogation regulation.....	306
2.5.6.	Test case dm_pror_unstable_stable_update: Update an unstable prorogation regulation to stable.....	317
2.5.7.	Test case dm_pror_stable_update: Update a stable prorogation regulation.....	321
2.5.8.	Test case dm_pror_stable_delete: Delete a stable prorogation regulation.....	329
3.	TEST REPORT FORM.....	332
3.1.	Environment description.....	332
3.2.	Test case execution.....	332

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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:

- Nomenclature group;
- Legal regulation;
- Base regulation;
- Modification regulation;
- Prorogation regulation.

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
UNIX	Unix operation system

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2. DATA MAINTENANCE

2.1. Nomenclature group

2.1.1. Test case **dm_ref_ng_insert**: Insertion of a nomenclature group

Message: **dm_ref_ng_insert_setup_01.xml**

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *1999-01-01*, goods nomenclature sid = *10*:
 - description period 1: start date = *1999-01-01*:
 - description 1: language id = *EN*, description = *English description of 0100000000*.
 - description 2: language id = *FR*, description = *French description of 0100000000*.
 - description 3: language id = *NL*, description = *Dutch description of 0100000000*.
 - indent 1: indent sid = *1*, start date = *1999-01-01*, indent number = *11*.
statistical indicator = *0*.

Transaction 1a:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *1999-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *1999-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *English description of 0100000000.*

- description 2: language id = *FR*,
description = *French description of 0100000000.*
- description 3: language id = *NL*,
description = *Dutch description of 0100000000.*

- indent 1: indent sid = *15*, start date = *1999-01-01*, indent number = *10*.

statistical indicator = *0*.

Transaction 1b:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0130000000*, productline suffix = *80*, start date = *2000-01-01*, goods nomenclature sid = *2*:

- description period 1: start date = *2000-01-01*:

- description 1: language id = *EN*,
description = *English description of 0130000000.*
- description 2: language id = *FR*,
description = *French description of 0130000000.*
- description 3: language id = *NL*,
description = *Dutch description of 0130000000.*

- indent 1: indent sid = *2*, start date = *2000-01-01*, indent number = *11*.

goods nomenclature id = *0100000000*,
productline suffix = *80*.

statistical indicator = *0*.

Transaction 2:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *013013*, start date = *2000-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 1: language id = *EN*, description = *English Description of 013013*.
- description 2: language id = *FR*, description = *French Description of 013013*.
- description 3: language id = *NL*, description = *Dutch Description of 013013*.

nomenclature group facility code = 0.

Transaction 3:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0140000000*, productline suffix = *80*, start date = *2000-01-01*, goods nomenclature sid = *3*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English description of 0140000000*.
 - description 2: language id = *FR*, description = *French description of 0140000000*.
 - description 3: language id = *NL*, description = *Dutch description of 0140000000*.
 - indent 1: indent sid = *22*, start date = *2000-01-01*, indent number = *10*.

statistical indicator = 0.

Transaction 4:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *014014*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 014014*.
 - description 2: language id = *FR*, description = *French Description of 014014*.
 - description 3: language id = *NL*, description = *Dutch Description of 014014*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0200000010, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 4:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English description of 0200000010.*
 - description 2: language id = FR, description = *French description of 0200000010.*
 - description 3: language id = NL, description = *Dutch description of 0200000010.*
 - indent 1: indent sid = 3, start date = 2000-01-01, indent number = 10.
 goods nomenclature id = 0200000000, productline suffix = 80.

statistical indicator = 0.

Expected output:

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

Reply to transaction 1:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 1a:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 1b:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Reply to transaction 5:

- Message 1, on goods.nomenclature.ref : OK.

Message: **dm_ref_ng_insert_01.xml**

Precondition: Make sure the *dm_ref_ng_insert_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010101:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

nomenclature group facility code = 0.

Transaction 2:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = Z, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 010101.

Transaction 3:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010101, start date = 1900-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French Description.

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

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = 1250, nomenclature group id = IDÃ; start date = 1901/01:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01, end 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.*

nomenclature group facility code = 0.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on nomenclature.group.ref : VR-NG-1: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

group type and group ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

Message: **dm_ref_ng_insert_02.xml**

Precondition: Make sure the *dm_ref_ng_insert_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010101, 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*.

nomenclature group facility code = 0.

Transaction 2:

- Message 1: Request the nomenclature group with operator = AND, query space field = NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id, operator = =, constant = Z, query space field = NOMENCLATURE GROUP.NOMENCLATURE

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

*GROUP REF.Nomenclature group id, operator = =,
constant = 010101.*

Transaction 3:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010101, 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.*

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = 1250, nomenclature group id = IDÃ; start date = 1901/01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01, end 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.*

nomenclature group facility code = 0.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

output:

transactions:

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on nomenclature.group.ref : VR-NG-1: The group type and group ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

Message:

dm_ref_ng_insert_03.xml

Precondition:

Make sure the *dm_ref_ng_insert_setup_01.xml* message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = English Description of 010101.
 - description 2: language id = FR, description = - French Description of 010101.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 010101.*
 - description 2: language id = FR, description = *French Description of 010101.*
 - description 3: language id = FR, description = *Second French Description of 010101.*
 - description 4: language id = NL, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 010101.*
 - description 2: language id = FR, description = *French Description of 010101.*
 - description 3: language id = XX, description = *Description of 010101 in a non existent language.*
 - description 4: language id = NL, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 6:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English /Description of 010101.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French Description of 010101.

- description 3: language id = *NL*, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 7:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010101.*
 - description 2: language id = *FR*, description = *French Description of 010101:.*
 - description 3: language id = *NL*, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 8:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of 010101.*
 - description 2: language id = *FR*, description = *French kg Description of 010101.*
 - description 3: language id = *NL*, description = *Dutch kg; Description of 010101.*

nomenclature group facility code = 0.

Transaction 9:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English kg: Description of 010101.*
 - description 2: language id = *FR*, description = *French kg, Description of 010101.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *NL*, description = *Dutch Description of 010101*.

nomenclature group facility code = 0.

Transaction 10:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010101*.
 - description 2: language id = *NL*, description = *Dutch Description of 010101*.

nomenclature group facility code = 0.

Transaction 11:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *014014*, start date = *2000-01-01*, end date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English Description of 014014*.
 - description 2: language id = *FR*, description = *French Description of 014014*.
 - description 3: language id = *NL*, description = *Dutch Description of 014014*.

- nomenclature group member 1: goods nomenclature id = *3330000000*, productline suffix = *80*, start date = *2000-01-01*, end date = *2000-01-01*, end date = *2001-01-01*.

nomenclature group facility code = 0.

Transaction 12:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *014014*, start date = *2000-01-01*, end date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English Description of 014014*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French Description of 014014.

- description 3: language id = *NL*, description = *Dutch Description of 014014.*
- nomenclature group member 1: goods
nomenclature id = *0130000000*, productline
suffix = *80*, start date = *2000-01-01*, goods
nomenclature sid = *1*, start date = *2000-01-01*,
end date = *2001-01-01*.
- nomenclature group member 2: goods
nomenclature id = *0130000000*, productline
suffix = *80*, start date = *2000-01-01*, goods
nomenclature sid = *1*, start date = *2000-01-01*,
end date = *2001-01-01*.

nomenclature group facility code = *0*.

Transaction 13:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *X*, nomenclature group id =
014014, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =
English Description of 014014.
 - description 2: language id = *FR*, description =
French Description of 014014.
 - description 3: language id = *NL*, description =
Dutch Description of 014014.
 - nomenclature group member 1: goods
nomenclature id = *0130000000*, productline
suffix = *80*, start date = *2000-01-01*, goods
nomenclature sid = *1*, start date = *2000-01-01*,
end date = *2020-01-01*.
 - nomenclature group member 2: goods
nomenclature id = *0130000000*, productline
suffix = *80*, start date = *2000-01-01*, goods
nomenclature sid = *1*, start date = *2008-01-01*,
end date = *2050-01-01*.

nomenclature group facility code = *0*.

Transaction 14:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Update the unstable nomenclature group with nomenclature group type id = X, nomenclature group id = 014014, start date = 2000-01-01, end date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 014014.*
 - description 2: language id = FR, description = *French Description of 014014.*
 - description 3: language id = NL, description = *Dutch Description of 014014.*
 - nomenclature group member 1: goods nomenclature id = 0200000010, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 3, start date = 2000-01-01, end date = 2001-01-01.

nomenclature group facility code = 0.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Reply to transaction 11:

- Message 1, on goods.nomenclature.ref : VR-NG-6: The referenced goods nomenclature must exist.

Reply to transaction 12:

- Message 1, on nomenclature.group.member.ref : VR-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

NG-8: The nomenclature group association reference (combination of "goods nomenclature ID + product line suffix + goods nomenclature start date + membership start date") must be unique in the universe of the stable and unstable data.

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.

Reply to transaction 14:

- Message 1, on nomenclature.group.type.id : VR-NIG-48: If the referenced nomenclature group is an ERN nomenclature group, then the nomenclature code must be a CN code.

Message: **dm_ref_ng_insert_04.xml**

Precondition: Make sure the *dm_ref_ng_insert_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 010101.*
 - description 2: language id = FR, description = - *French Description of 010101.*
 - description 3: language id = NL, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

010101, start date = 2001-01-01:

- description 1: language id = *EN*, description = *English Description of 010101.*
- description 2: language id = *FR*, description = *French Description of 010101.*
- description 3: language id = *FR*, description = *Second French Description of 010101.*
- description 4: language id = *NL*, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = 2001-01-01:
 - description 1: language id = *EN*, description = *English Description of 010101.*
 - description 2: language id = *FR*, description = *French Description of 010101.*
 - description 3: language id = *XX*, description = *Description of 010101 in a non existent language.*
 - description 4: language id = *NL*, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 6:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010101*, start date = 2001-01-01:
 - description 1: language id = *EN*, description = *English Description of 010101.*
 - description 2: language id = *FR*, description = *French Description of 010101.*
 - description 3: language id = *NL*, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 7:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 010101.*
 - description 2: language id = FR, description = *French Description of 010101:.*
 - description 3: language id = NL, description = *Dutch Description of 010101.*
- nomenclature group facility code = 0.

Transaction 8:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English kg. Description of 010101.*
 - description 2: language id = FR, description = *French kg Description of 010101.*
 - description 3: language id = NL, description = *Dutch kg; Description of 010101.*
- nomenclature group facility code = 0.

Transaction 9:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English kg: Description of 010101.*
 - description 2: language id = FR, description = *French kg, Description of 010101.*
 - description 3: language id = NL, description = *Dutch Description of 010101.*
- nomenclature group facility code = 0.

Transaction 10:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010101, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 010101.*
 - description 2: language id = NL, description = *Dutch Description of 010101.*

nomenclature group facility code = 0.

Transaction 11:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 013013, start date = 2000-01-01, end date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 013013.*
 - description 2: language id = FR, description = *French Description of 013013.*
 - description 3: language id = NL, description = *Dutch Description of 013013.*
 - nomenclature group member 1: goods
nomenclature id = 0130000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 1, start date = 2002-01-01, end date = 2004-01-01.

nomenclature group facility code = 0.

Transaction 12:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 013013, start date = 2000-01-01, end date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of 013013.*
 - description 2: language id = FR, description = *French Description of 013013.*
 - description 3: language id = NL, description = *Dutch Description of 013013.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- nomenclature group member 1: goods
nomenclature id = 3330000000, productline
suffix = 80, start date = 2000-01-01, start date =
2000-01-01, end date = 2001-01-01.

nomenclature group facility code = 0.

Transaction 13:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
013013, start date = 2000-01-01, end date = 2001-01-01:
 - description 1: language id = EN, description =
English Description of 013013.
 - description 2: language id = FR, description =
French Description of 013013.
 - description 3: language id = NL, description =
Dutch Description of 013013.
 - nomenclature group member 1: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-01-01, start date =
2000-01-01, end date = 2001-01-01.

nomenclature group facility code = 0.

Transaction 14:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
013013, start date = 2000-01-01, end date = 2005-01-01:
 - description 1: language id = EN, description =
English Description of 013013.
 - description 2: language id = FR, description =
French Description of 013013.
 - description 3: language id = NL, description =
Dutch Description of 013013.
 - nomenclature group member 1: goods
nomenclature id = 0130000000, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 1, start date = 2000-01-01,
end date = 2001-01-01.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- nomenclature group member 2: goods
nomenclature id = 0130000000, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 1, start date = 2000-01-01,
end date = 2001-01-01.

nomenclature group facility code = 0.

Transaction 15:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
013013, start date = 1995-01-01, end date = 1999-01-01:
 - description 1: language id = EN, description =
English Description of 013013.
 - description 2: language id = FR, description =
French Description of 013013.
 - description 3: language id = NL, description =
Dutch Description of 013013.
 - nomenclature group member 1: goods
nomenclature id = 0130000000, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 1, start date = 1995-01-01,
end date = 1999-01-01.

nomenclature group facility code = 0.

Transaction 16:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
013013, start date = 2000-01-01:
 - description 1: language id = EN, description =
English Description of 013013.
 - description 2: language id = FR, description =
French Description of 013013.
 - description 3: language id = NL, description =
Dutch Description of 013013.
 - nomenclature group member 1: goods
nomenclature id = 0130000000, productline
suffix = 80, start date = 2000-01-01, goods

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature sid = 1, start date = 2000-01-01,
end date = 2020-01-01.

- nomenclature group member 2: goods
nomenclature id = 0130000000, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 1, start date = 2008-01-01,
end date = 2050-01-01.

nomenclature group facility code = 0.

Transaction 17:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = X, nomenclature group id =
014014, start date = 2000-01-01, end date = 2001-01-01:
 - description 1: language id = EN, description =
English Description of 013013.
 - description 2: language id = FR, description =
French Description of 013013.
 - description 3: language id = NL, description =
Dutch Description of 013013.
 - nomenclature group member 1: goods
nomenclature id = 0200000010, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 3, start date = 2000-01-01,
end date = 2001-01-01.

nomenclature group facility code = 0.

Transaction 18:

- Message 1: Insert a stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
016101:
 - description 1: language id = EN, description =
English Description of 016101.
 - description 2: language id = FR, description =
French Description of 016101.
 - description 3: language id = NL, description =
Dutch Description of 016101.

nomenclature group facility code = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 19:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 016101:
 - description 1: language id = EN, description = *English Description of 016101.*
 - description 2: language id = FR, description = *French Description of 016101.*
 - description 3: language id = NL, description = *Dutch Description of 016101.*
 - nomenclature group member 1: goods nomenclature id = 0130000000, productline suffix = 80, start date = 2000-01-01, start date = 2000-01-01.

nomenclature group facility code = 0.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Reply to transaction 11:

- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 12:

- Message 1, on goods.nomenclature.ref : VR-NG-6: The referenced goods nomenclature must exist.

Reply to transaction 13:

- Message 1, on goods.nomenclature.ref : VR-NG-7: The associated goods nomenclature must be stable when the nomenclature group is stable.

Reply to transaction 14:

- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on nomenclature.group.member.ref : VR-NG-8: The nomenclature group association reference (combination of "goods nomenclature ID + product line suffix + goods nomenclature start date + membership start date") must be unique in the universe of the stable and unstable data.

Reply to transaction 15:

- Message 1, on nomenclature.group.member : VR-NIG-14: The membership period with a nomenclature group must be within (inclusive) the validity period of the goods nomenclature.

Reply to transaction 16:

- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 17:

- Message 1, on nomenclature.group.type.id : VR-NIG-48: If the referenced nomenclature group is an ERN nomenclature group, then the nomenclature code must be a CN code.

Reply to transaction 18:

- 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 19:

- 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 nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

2.1.2. Test case dm_ref_ng_update: Update of a nomenclature group

Message: dm_ref_ng_update_setup_01.xml

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, 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.*
 nomenclature group facility code = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 2:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010102, start date = 1900-01-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*
- nomenclature group facility code = 0.

Transaction 3:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010103, 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.*
- nomenclature group facility code = 2.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 1999-12-31:
 - description period 1: start date = 1999-12-31:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- indent 1: indent sid = 1, start date = 1999-12-31, indent number = 1.

- nomenclature group membership 1:
nomenclature group type id = Z, nomenclature group id = 010103, start date = 2000-01-01.

statistical indicator = 0.

Transaction 5:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010104, 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.*

nomenclature group facility code = 2.

Transaction 6:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010103, 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.*

nomenclature group facility code = 2.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2002-01-01:
 - description period 1: start date = 2002-01-01:
 - description 1: language id = EN,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *English description*.

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

○ indent 1: indent sid = *81*, start date = *2002-01-01*, indent number = *2*.

○ nomenclature group membership 1:
nomenclature group type id = *Y*, nomenclature group id = *010103*, start date = *2002-01-01*.

statistical indicator = *0*.

Expected output:

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Message: **dm_ref_ng_update_setup_02.xml**

Precondition: Make sure the *dm_ref_ng_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0140000000*, productline suffix = *80*, start date = *2000-02-02*, goods nomenclature sid = *1*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description period 1: start date = 2000-02-02:
 - description 1: language id = *EN*,
description = *English description of 0140000000*.
 - description 2: language id = *FR*,
description = *French description of 0140000000*.
 - description 3: language id = *NL*,
description = *Dutch description of 0140000000*.
- indent 1: indent sid = 71, start date = 2000-02-02, indent number = 10.
goods nomenclature id = 0100000000,
productline suffix = 80.

statistical indicator = 0.

Transaction 2:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0150000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 2:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = *EN*,
description = *English description of 0150000000*.
 - description 2: language id = *FR*,
description = *French description of 0150000000*.
 - description 3: language id = *NL*,
description = *Dutch description of 0150000000*.
 - indent 1: indent sid = 72, start date = 2000-01-01, indent number = 10.

statistical indicator = 0.

Transaction 3:

- Message 1: Insert a stable goods nomenclature with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

goods nomenclature id = 0160000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 3:

- description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English description of 0160000000.*
 - description 2: language id = FR, description = *French description of 0160000000.*
 - description 3: language id = NL, description = *Dutch description of 0160000000.*
- indent 1: indent sid = 73, start date = 2000-01-01, indent number = 10.

goods nomenclature id = 0100000000, productline suffix = 80, start date = 1999-12-31.

statistical indicator = 0.

Transaction 4:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 014014, start date = 2000-01-01, end date = 2009-12-31:
 - description 1: language id = EN, description = *English Description of 014014.*
 - description 2: language id = FR, description = *French Description of 014014.*
 - description 3: language id = NL, description = *Dutch Description of 014014.*
 - nomenclature group member 1: goods nomenclature id = 0140000000, productline suffix = 80, start date = 2000-02-02, end date = 2004-01-01.

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Insert a stable nomenclature group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature group type id = Z, nomenclature group id = 015015, start date = 2000-01-01, end date = 2009-12-31:

- description 1: language id = EN, description = *English Description of 015015.*
- description 2: language id = FR, description = *French Description of 015015.*
- description 3: language id = NL, description = *Dutch Description of 015015.*
- nomenclature group member 1: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-02-02, start date =
2000-02-02, end date = 2004-01-01.

nomenclature group facility code = 0.

Transaction 6:

- Message 1: Insert an unstable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
016016, start date = 2000-01-01:
 - description 1: language id = EN, description =
English Description of 016016.
 - description 2: language id = FR, description =
French Description of 016016.
 - description 3: language id = NL, description =
Dutch Description of 016016.
 - nomenclature group member 1: goods
nomenclature id = 0160000000, productline
suffix = 80, start date = 2000-01-01, start date =
2000-01-01.

nomenclature group facility code = 0.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with
goods nomenclature id = 0170000000, productline suffix
= 80, start date = 2000-02-02, goods nomenclature sid =
4:
 - description period 1: start date = 2000-02-02:
 - description 1: language id = EN,
description = *English description of*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

0170000000.

- description 2: language id = *FR*,
description = *French description of*
0170000000.
- description 3: language id = *NL*,
description = *Dutch description of*
0170000000.

- indent 1: indent sid = 74, start date = 2000-02-02, indent number = 10.

goods nomenclature id = 0100000000,
productline suffix = 80.

statistical indicator = 0.

Transaction 8:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0180000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 5:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = *EN*,
description = *English description of*
0180000000.
 - description 2: language id = *FR*,
description = *French description of*
0180000000.
 - description 3: language id = *NL*,
description = *Dutch description of*
0180000000.
 - indent 1: indent sid = 75, start date = 2000-01-01, indent number = 10.

statistical indicator = 0.

Transaction 9:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = 017017, start date = 2000-01-01:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

English Description of 017017.

- description 2: language id = *FR*, description = *French Description of 017017.*
- description 3: language id = *NL*, description = *Dutch Description of 017017.*
- nomenclature group member 1: goods
nomenclature id = *0180000000*, productline
suffix = *80*, start date = *2000-01-01*, start date = *2000-01-01*.

nomenclature group facility 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.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Message: **dm_ref_ng_update_01.xml**

Precondition: Make sure the dm_ref_ng_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 nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- 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.*
- nomenclature group member 1: goods
nomenclature id = *0100000000*, productline
suffix = *80*, start date = *1999-12-31*, start date =
2002-02-01, end date = *2003-02-01*.
- nomenclature group member 2: goods
nomenclature id = *0100000000*, productline
suffix = *80*, start date = *1999-12-31*, start date =
2003-02-02.

nomenclature group facility code = *2*.

Transaction 2:

- Message 1: Request the nomenclature group with
operator = *AND*, query space field = *NOMENCLATURE
GROUP.NOMENCLATURE GROUP REF.Nomenclature
group type id*, operator = *=*, constant = *Z*, query space
field = *NOMENCLATURE GROUP.NOMENCLATURE
GROUP REF.Nomenclature group id*, operator = *=*,
constant = *010102*.

Transaction 3:

- Message 1: Update the unstable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
010105:
 - description 1: language id = *EN*, description =
English Description.
 - description 2: language id = *FR*, description =
French Description.
 - description 3: language id = *NL*, description =
Dutch Description.

nomenclature group facility code = *0*.

Transaction 4:

- Message 1: Update the unstable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

010102, start date = 2000-01-01, end date = 1999-01-01:

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

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

nomenclature group facility code = 2.

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

Expected output:

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on stability.flag : VR-VI-11: The publication status of data can only be unstable if the information is

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

new in the system or the previous version of the information also has publication status unstable.

Message: **dm_ref_ng_update_02.xml**

Precondition: Make sure the *dm_ref_ng_update_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description updated 2.*
 - description 2: language id = FR, description = *French Description updated 2.*
 - description 3: language id = NL, description = *Dutch Description updated 2.*

nomenclature group facility code = 0.

Transaction 2:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = Z, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 010102.

Transaction 3:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010105, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description.

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010104, start date = 2000-01-01, end date = 1999-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010103, start date = 1999-01-01, end 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.*
 - nomenclature group member 1: goods nomenclature id = 0100000000, productline suffix = 80, start date = 2002-01-01, start date = 2002-01-01, end date = 2004-01-01.

nomenclature group facility code = 2.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.
- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.
- Message 1, on goods.nomenclature.ref : VR-NG-6: The referenced goods nomenclature must exist.

Message: **dm_ref_ng_update_03.xml**

Precondition: Make sure the *dm_ref_ng_update_02.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010102, 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.*
 nomenclature group facility code = 2.

Transaction 2:

- Message 1: Request the nomenclature group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

operator = *AND*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = *Y*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = *010102*.

Transaction 3:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010105*, 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*.

nomenclature group facility code = *0*.

Transaction 4:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*, end date = *1999-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

nomenclature group facility code = *0*.

Transaction 5:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010103*, start date = *1999-01-01*, end date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *NL*, description = *Dutch Description*.
- nomenclature group member 1: goods
nomenclature id = *0100000000*, productline
suffix = *80*, start date = *2002-01-01*, start date =
2002-01-01, end date = *2004-01-01*.

nomenclature group facility code = *2*.

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.
- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.
- Message 1, on goods.nomenclature.ref : VR-NG-6: The referenced goods nomenclature must exist.

Message: **dm_ref_ng_update_04.xml**

Precondition: Make sure the *dm_ref_ng_update_setup_02.xml* message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

010102French Description of 010102French Description of 010102.

- description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102.*
 - description 3: language id = *FR*, description = *Second French Description of 010102.*
 - description 4: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102.*
 - description 3: language id = *XX*, description = *Description of 010102 in a non existing language.*
 - description 4: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description of 010102.

nomenclature group facility code = 0.

Transaction 6:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English /Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = NL, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 7:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.:*
 - description 3: language id = NL, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 8:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English kg. Description of 010102.*
 - description 2: language id = FR, description = *French kg Description of 010102.*
 - description 3: language id = NL, description = *Dutch kg; Description of 010102.*

nomenclature group facility code = 0.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 9:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English kg: Description of 010102.*
 - description 2: language id = FR, description = *French kg, Description of 010102.*
 - description 3: language id = NL, description = *Dutch Description of 010102.*
- nomenclature group facility code = 0.

Transaction 10:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 014014, start date = 2000-01-01, end date = 2009-12-31:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = NL, description = *Dutch Description of 010102.*
 - nomenclature group member 1: goods
nomenclature id = 0150000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 2, start date = 2002-01-01, end date = 2004-01-01.
 - nomenclature group member 2: goods
nomenclature id = 0150000000, productline suffix = 80, start date = 2000-01-01, goods nomenclature sid = 2, start date = 2002-01-01, end date = 2004-01-01.
- nomenclature group facility code = 0.

Transaction 11:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 1: language id = *EN*, description = *English Description of 017017*.
- description 2: language id = *FR*, description = *French Description of 017017*.
- description 3: language id = *NL*, description = *Dutch Description of 017017*.

nomenclature group facility code = 0.

Transaction 12:

- Message 1: Request the nomenclature group with operator = *AND*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = *Z*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = *017017*.

Transaction 13:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = *5*.

Transaction 14:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *017017*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 017017*.
 - description 2: language id = *FR*, description = *French Description of 017017*.
 - description 3: language id = *NL*, description = *Dutch Description of 017017*.
 - nomenclature group member 1: goods nomenclature id = *0170000000*, productline suffix = *80*, start date = *2000-02-02*, start date = *2000-02-02*.

nomenclature group facility code = 0.

Transaction 15:

- Message 1: Update the unstable nomenclature group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:

- description 1: language id = EN, description = *English Description of 017017.*
- description 2: language id = FR, description = *French Description of 017017.*
- description 3: language id = NL, description = *Dutch Description of 017017.*

nomenclature group facility code = 0.

Transaction 16:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 017017.*
 - description 2: language id = FR, description = *French Description of 017017.*
 - description 3: language id = NL, description = *Dutch Description of 017017.*
 - nomenclature group member 1: goods nomenclature id = 0575500000, productline suffix = 80, start date = 2000-01-01, start date = 2000-01-01.

nomenclature group facility code = 0.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a short description must not exceed 500 characters (taking into account that newline characters are translated in a 3-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 '|'.

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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 10:

- Message 1, on nomenclature.group.member.ref : VR-NG-8: The nomenclature group association reference (combination of "goods nomenclature ID + product line suffix + goods nomenclature start date + membership start date") must be unique in the universe of the stable and unstable data.

Reply to transaction 11:

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

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1 : OK.

Reply to transaction 14:

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

Reply to transaction 15:

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

Reply to transaction 16:

- Message 1, on goods.nomenclature.ref : VR-NG-6: The referenced goods nomenclature must exist.

Message: **dm_ref_ng_update_05.xml**

Precondition: Make sure the *dm_ref_ng_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 nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = - *French Description of 010102.*
 - description 3: language id = NL, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 4:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = FR, description = *Second French Description of 010102.*
 - description 4: language id = NL, description = *Dutch Description of 010102.*
- nomenclature group facility code = 0.

Transaction 5:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = XX, description = *Description of 010102 in a non existing language.*
 - description 4: language id = NL, description = *Dutch Description of 010102.*
- nomenclature group facility code = 0.

Transaction 6:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English /Description of 010102.*
 - description 2: language id = FR, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French Description of 010102.

- description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 7:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:

- description 1: language id = *EN*, description = *English Description of 010102.*

- description 2: language id = *FR*, description = *French Description of 010102.*

- description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 8:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:

- description 1: language id = *EN*, description = *English kg. Description of 010102.*

- description 2: language id = *FR*, description = *French kg Description of 010102.*

- description 3: language id = *NL*, description = *Dutch kg; Description of 010102.*

nomenclature group facility code = 0.

Transaction 9:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010102*, start date = *2000-01-01*:

- description 1: language id = *EN*, description = *English kg: Description of 010102.*

- description 2: language id = *FR*, description = *French kg, Description of 010102.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *NL*, description = *Dutch Description of 010102*.

nomenclature group facility code = 0.

Transaction 10:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *014014*, start date = *2000-01-01*, end date = *2006-01-01*:
 - description 1: language id = *EN*, description = *English Description of 014014*.
 - description 2: language id = *FR*, description = *French Description of 014014*.
 - description 3: language id = *NL*, description = *Dutch Description of 014014*.
 - nomenclature group member 1: goods
nomenclature id = *0140000000*, productline suffix = *80*, start date = *2000-02-02*, start date = *2002-01-01*, end date = *2007-01-01*.

nomenclature group facility code = 0.

Transaction 11:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *014014*, start date = *2000-01-01*, end date = *2009-12-31*:
 - description 1: language id = *EN*, description = *English Description of 014014*.
 - description 2: language id = *FR*, description = *French Description of 014014*.
 - description 3: language id = *NL*, description = *Dutch Description of 014014*.
 - nomenclature group member 1: goods
nomenclature id = *0150000000*, productline suffix = *80*, start date = *2000-01-01*, goods nomenclature sid = *2*, start date = *2002-01-01*, end date = *2004-01-01*.

nomenclature group facility code = 0.

Transaction 11b:

- Message 1: Update the stable nomenclature group with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

nomenclature group type id = Z, nomenclature group id = 014014, start date = 2000-01-01, end date = 2009-12-31:

- description 1: language id = EN, description = *English Description of 014014.*
- description 2: language id = FR, description = *French Description of 014014.*
- description 3: language id = NL, description = *Dutch Description of 014014.*
- nomenclature group member 1: goods
nomenclature id = 0150000000, productline
suffix = 80, start date = 2000-01-01, goods
nomenclature sid = 2, start date = 2002-01-01,
end date = 2004-01-01.

nomenclature group facility code = 0.

Transaction 12:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id = 014014, start date = 2000-01-01, end date = 2006-12-31:
 - description 1: language id = EN, description = *English Description of 014014.*
 - description 2: language id = FR, description = *French Description of 014014.*
 - description 3: language id = NL, description = *Dutch Description of 014014.*
 - nomenclature group member 1: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-02-02, goods
nomenclature sid = 1, start date = 2002-01-01,
end date = 2009-01-01.

nomenclature group facility code = 0.

Transaction 13:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id = 014014, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 014014.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 2: language id = *FR*, description = *French Description of 014014*.
- description 3: language id = *NL*, description = *Dutch Description of 014014*.
- nomenclature group member 1: goods
nomenclature id = *0140000000*, productline
suffix = *80*, start date = *2000-02-02*, goods
nomenclature sid = *1*, start date = *2000-01-01*,
end date = *2004-01-01*.
- nomenclature group member 2: goods
nomenclature id = *0140000000*, productline
suffix = *80*, start date = *2000-02-02*, goods
nomenclature sid = *1*, start date = *2002-01-01*,
end date = *2008-01-01*.

nomenclature group facility code = *0*.

Transaction 14:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
014014:
 - description 1: language id = *EN*, description =
English Description of 014014.
 - description 2: language id = *FR*, description =
French Description of 014014.
 - description 3: language id = *NL*, description =
Dutch Description of 014014.

nomenclature group facility code = *0*.

Transaction 15:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
014014:
 - description 1: language id = *EN*, description =
English Description of 014014.
 - description 2: language id = *FR*, description =
French Description of 014014.
 - description 3: language id = *NL*, description =
Dutch Description of 014014.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- nomenclature group member 1: goods
nomenclature id = *0140000000*, productline
suffix = *80*, start date = *2000-02-02*, start date =
2000-02-02.

nomenclature group facility code = *0*.

Transaction 16:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
016016, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =
English Description of 016016.
 - description 2: language id = *FR*, description =
French Description of 016016.
 - description 3: language id = *NL*, description =
Dutch Description of 016016.
 - nomenclature group member 1: goods
nomenclature id = *0160000000*, productline
suffix = *80*, start date = *2000-01-01*, start date =
2000-01-01.

nomenclature group facility code = *0*.

Transaction 17:

- Message 1: Request the nomenclature group with
operator = *AND*, query space field = *NOMENCLATURE
GROUP.NOMENCLATURE GROUP REF.Nomenclature
group type id*, operator = *=*, constant = *Z*, query space
field = *NOMENCLATURE GROUP.NOMENCLATURE
GROUP REF.Nomenclature group id*, operator = *=*,
constant = *016016*.

Transaction 18:

- Message 1: Request the goods nomenclature with query
space field = *GOODS NOMENCLATURE.GOODS
NOMENCLATURE REF.Goods nomenclature sid*,
operator = *=*, constant = *3*.

Transaction 19:

- Message 1: Update the stable goods nomenclature with
goods nomenclature id = *0160000000*, productline suffix
= *80*, start date = *2000-01-01*, goods nomenclature sid =
3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English description of 0160000000.*
 - description 2: language id = FR, description = *French description of 0160000000.*
 - description 3: language id = NL, description = *Dutch description of 0160000000.*
- indent 1: indent sid = 2, start date = 2000-01-01, indent number = 10.
goods nomenclature id = 0100000000, productline suffix = 80.
- nomenclature group membership 1: nomenclature group type id = Z, nomenclature group id = 016016, start date = 2000-01-01.

statistical indicator = 0.

Transaction 20:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = Z, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 016016.

Transaction 21:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 3.

Transaction 22:

- Message 1: Update the unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 017017.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 2: language id = *FR*, description = *French Description of 017017*.
- description 3: language id = *NL*, description = *Dutch Description of 017017*.
- nomenclature group member 1: goods
nomenclature id = *0180000000*, productline
suffix = *80*, start date = *2000-01-01*, start date = *2000-01-01*.
- nomenclature group member 2: goods
nomenclature id = *0170000000*, productline
suffix = *80*, start date = *2000-02-02*, start date = *2000-02-02*.

nomenclature group facility code = *0*.

Transaction 23:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id = *017017*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 017017*.
 - description 2: language id = *FR*, description = *French Description of 017017*.
 - description 3: language id = *NL*, description = *Dutch Description of 017017*.

nomenclature group facility code = *0*.

Transaction 24:

- Message 1: Request the nomenclature group with
operator = *AND*, query space field = *NOMENCLATURE
GROUP.NOMENCLATURE GROUP REF.Nomenclature
group type id*, operator = *=*, constant = *Z*, query space
field = *NOMENCLATURE GROUP.NOMENCLATURE
GROUP REF.Nomenclature group id*, operator = *=*,
constant = *017017*.

Transaction 25:

- Message 1: Request the goods nomenclature with query
space field = *GOODS NOMENCLATURE.GOODS
NOMENCLATURE REF.Goods nomenclature sid*,
operator = *=*, constant = *4*.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 11:

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

Reply to transaction 11b:

- Message 1, on goods.nomenclature.ref : VR-NG-7: The associated goods nomenclature must be stable when the nomenclature group is stable.

Reply to transaction 12:

- Message 1, on nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on nomenclature.group.member[1] : VR-NIG-14: The membership period with a nomenclature

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

group must be within (inclusive) the validity period of the goods nomenclature.

Reply to transaction 14:

- 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 15:

- 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 nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 16:

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

Reply to transaction 17:

- Message 1 : OK.

Reply to transaction 18:

- Message 1 : OK.

Reply to transaction 19:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 20:

- Message 1 : OK.

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

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

Reply to transaction 23:

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

Reply to transaction 24:

- Message 1 : OK.

Reply to transaction 25:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Message: **dm_ref_ng_update_06.xml**

Precondition: Make sure the *dm_ref_ng_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 nomenclature group with nomenclature group type id = Y, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = NL, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 2:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102.*
 - description 3: language id = NL, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 3:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Y, nomenclature group id = 010102, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 010102.*
 - description 2: language id = FR, description = *French Description of 010102French*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Description of 010102French Description of 010102.

- description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 4:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102.*
 - description 3: language id = *FR*, description = *Second French Description of 010102.*
 - description 4: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 5:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *XX*, description = *Description of 010102 in a non existing language.*
- description 4: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 6:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English /Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102.*
 - description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 7:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of 010102.*
 - description 2: language id = *FR*, description = *French Description of 010102:.*
 - description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 8:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English kg. Description of 010102.*
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French kg Description of 010102.

- description 3: language id = *NL*, description = *Dutch kg; Description of 010102.*

nomenclature group facility code = 0.

Transaction 9:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010102*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English kg; Description of 010102.*
 - description 2: language id = *FR*, description = *French kg, Description of 010102.*
 - description 3: language id = *NL*, description = *Dutch Description of 010102.*

nomenclature group facility code = 0.

Transaction 10:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *015015*, start date = *2000-01-01*, end date = *2009-12-31*:
 - description 1: language id = *EN*, description = *English Description of 015015.*
 - description 2: language id = *FR*, description = *French Description of 015015.*
 - description 3: language id = *NL*, description = *Dutch Description of 015015.*

- nomenclature group member 1: goods
nomenclature id = *0140000000*, productline
suffix = *80*, start date = *2000-02-02*, start date =
2002-01-01, end date = *2020-01-01*.

nomenclature group facility code = 0.

Transaction 11:

- Message 1: Update the stable nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *015015*, start date = *2000-01-01*, end date = *2009-12-31*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

English Description of 015015.

- description 2: language id = *FR*, description = *French Description of 015015.*
- description 3: language id = *NL*, description = *Dutch Description of 015015.*
- nomenclature group member 1: goods
nomenclature id = *0150000000*, productline
suffix = *80*, start date = *2000-01-01*, start date =
2002-01-01, end date = *2004-01-01*.

nomenclature group facility code = *0*.

Transaction 12:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
015015, start date = *2000-01-01*, end date = *2009-12-31*:
 - description 1: language id = *EN*, description =
English Description of 015015.
 - description 2: language id = *FR*, description =
French Description of 015015.
 - description 3: language id = *NL*, description =
Dutch Description of 015015.
 - nomenclature group member 1: goods
nomenclature id = *0140000000*, productline
suffix = *80*, start date = *2000-02-02*, start date =
2000-01-01, end date = *2009-01-01*.

nomenclature group facility code = *0*.

Transaction 13:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = *Z*, nomenclature group id =
015015, start date = *2000-01-01*:
 - description 1: language id = *EN*, description =
English Description of 015015.
 - description 2: language id = *FR*, description =
French Description of 015015.
 - description 3: language id = *NL*, description =
Dutch Description of 015015.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- nomenclature group member 1: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-02-02, start date =
2000-02-02, end date = 2004-01-01.
- nomenclature group member 2: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-02-02, start date =
2003-01-01, end date = 2008-01-01.

nomenclature group facility code = 0.

Transaction 14:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
015015:
 - description 1: language id = EN, description =
English Description of 015015.
 - description 2: language id = FR, description =
French Description of 015015.
 - description 3: language id = NL, description =
Dutch Description of 015015.

nomenclature group facility code = 0.

Transaction 15:

- Message 1: Update the stable nomenclature group with
nomenclature group type id = Z, nomenclature group id =
015015:
 - description 1: language id = EN, description =
English Description of 015015.
 - description 2: language id = FR, description =
French Description of 015015.
 - description 3: language id = NL, description =
Dutch Description of 015015.
 - nomenclature group member 1: goods
nomenclature id = 0140000000, productline
suffix = 80, start date = 2000-02-02, start date =
2000-02-02.

nomenclature group facility code = 0.

Transaction 16:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 017017.*
 - description 2: language id = FR, description = *French Description of 017017.*
 - description 3: language id = NL, description = *Dutch Description of 017017.*
 - nomenclature group member 1: goods
nomenclature id = 0180000000, productline suffix = 80, start date = 2000-01-01, start date = 2000-01-01.
 - nomenclature group member 2: goods
nomenclature id = 0170000000, productline suffix = 80, start date = 2000-02-02, start date = 2000-02-02.

nomenclature group facility code = 0.

Transaction 17:

- Message 1: Update the stable nomenclature group with nomenclature group type id = Z, nomenclature group id = 017017, start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of 017017.*
 - description 2: language id = FR, description = *French Description of 017017.*
 - description 3: language id = NL, description = *Dutch Description of 017017.*

nomenclature group facility code = 0.

Transaction 18:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = Z, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 017017.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 19:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 4.

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 '|'.

Reply to transaction 7:

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

Reply to transaction 8:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 11:

- Message 1, on goods.nomenclature.ref : VR-NG-7: The associated goods nomenclature must be stable when the nomenclature group is stable.

Reply to transaction 12:

- Message 1, on nomenclature.group.member : VR-NIG-14: The membership period with a nomenclature group must be within (inclusive) the validity period of the goods nomenclature.

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their membership periods.
- Message 1, on start.date : VR-NIG-47: When the same goods nomenclature occurs more than once as a member of the same group then there must be no overlap in their

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

membership periods.

Reply to transaction 14:

- 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 15:

- 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 nomenclature.group.member.ref : VR-NG-4: The membership period with a nomenclature group must be within (inclusive) the validity period of the nomenclature group.

Reply to transaction 16:

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

Reply to transaction 17:

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

Reply to transaction 18:

- Message 1 : OK.

Reply to transaction 19:

- Message 1 : OK.

2.1.3. Test case dm_ref_ng_delete: Deletion of a nomenclature group

Message: dm_ref_ng_delete_setup_01.xml

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = Z, nomenclature group id = 010104:
 - description 1: language id = EN, description = *English Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

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

nomenclature group facility code = 2.

Transaction 2:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010104*, 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*.

nomenclature group facility code = 2.

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_ng_delete_01.xml**

Precondition: Make sure the message dm_ref_ng_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 nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010104*.

Transaction 2:

- Message 1: Delete the nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010104*.

Transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Request the nomenclature group with query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = *010104*.

Transaction 4:

- Message 1: Delete the nomenclature group with nomenclature group type id = *Z*, nomenclature group id = *010104*.

Transaction 5:

- Message 1: Delete the nomenclature group with nomenclature group type id = *Y*, nomenclature group id = *010104*.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

2.2. Legal regulation

The test cases defined in this section cover the test scenario defined in [[TARIC3-FTS](#)] section 4.2 (Legal regulation).

2.2.1. Test case **init_ref_legal_regulation_setup**: Insertion of legal regulation reference data

Message: **init_ref_legal_regulation_setup.xml**

Precondition: Make sure the database is empty.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 legal regulation with regulation id = *R0802120*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 3:

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

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

Reply to transaction 1:

- Message 1, on language.ref : OK.
- Message 2, on language.ref : OK.
- Message 3, on language.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 2:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 3:

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

2.2.2. Test case dm_reg_insert: Insertion of a legal regulation

Message: dm_reg_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_legal_regulation_setup.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0800010*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Request the legal regulation with query space field = *LEGAL REGULATION.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0800010*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0800010*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

- Message 1: Insert a stable legal regulation with regulation id = *AR0800010*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

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

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 3:

- Message 1, on legal.regulation.ref : VR-REG-1: The legal-regulation reference (regulation ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

Message: **dm_reg_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_legal_regulation_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 legal regulation with regulation id = R0800020, published date = 2000-01-01, official journal number = 1, official journal page = 1.

Transaction 2:

- Message 1: Insert an unstable legal regulation with regulation id = R0800020, published date = 2000-01-01, official journal number = 1, official journal page = 1.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = R0800020, published date = 2000-01-01, official journal number = 1, official journal page = 1.

Transaction 4:

- Message 1: Insert an unstable legal regulation with regulation id = AR0800020, published date = 2000-01-01, official journal number = 1, official journal page = 1.

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

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on legal.regulation.ref : VR-REG-1: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

legal-regulation reference (regulation ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : VR-REG-1: The legal-regulation reference (regulation ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

Message: **dm_reg_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_legal_regulation_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 legal regulation with regulation id = *R0877123*, published date = *2008-01-01*, official journal page = *1*.

Transaction 2:

- Message 1: Insert an unstable legal regulation with regulation id = *R0877123*, published date = *2008-01-01*, official journal number = *1*.

Transaction 3:

- Message 1: Insert an unstable legal regulation with regulation id = *R0877123*, official journal number = *1*, official journal page = *1*.

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

Reply to transaction 1:

- Message 1, on official.journal.number : VR-REG-4: Official journal number is mandatory for a non-draft legal-regulation.

Reply to transaction 2:

- Message 1, on official.journal.page : VR-REG-4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Official journal page is mandatory for a non-draft legal-regulation.

Reply to transaction 3:

- Message 1, on published.date : VR-REG-4: Publication date is mandatory for a non-draft legal-regulation.

Message: **dm_reg_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_legal_regulation_setup.xml* messages should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable legal regulation with regulation id = *R0877124*, published date = *2008-01-01*, official journal page = *1*.

Transaction 2:

- Message 1: Insert a stable legal regulation with regulation id = *R0877124*, published date = *2008-01-01*, official journal number = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0877124*, official journal number = *1*, official journal page = *1*.

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

Reply to transaction 1:

- Message 1, on official.journal.number : VR-REG-4: Official journal number is mandatory for a non-draft legal-regulation.

Reply to transaction 2:

- Message 1, on official.journal.page : VR-REG-4: Official journal page is mandatory for a non-draft legal-regulation.

Reply to transaction 3:

- Message 1, on published.date : VR-REG-4: Publication

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

date is mandatory for a non-draft legal-regulation.

2.2.3. Test case **dm_reg_update**: Update of a legal regulation

Message: **dm_reg_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_legal_regulation_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 legal regulation with regulation id = *R0800110*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 2:

- Message 1: Insert an unstable legal regulation with regulation id = *R0800120*, published date = *2000-01-01*, official journal number = *1*, official journal page = *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.

Message: **dm_reg_update_01.xml**

Precondition: Make sure the *dm_reg_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 legal regulation with regulation id = *R0800120*, published date = *2009-01-01*, official journal number = *01*, official journal page = *01*, information text = *11*.

Transaction 2:

- Message 1: Request the legal regulation with query space

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

field = *LEGAL REGULATION.LEGAL REGULATION
REF.Regulation id*, operator = =, constant = *R0800110*.

Transaction 3:

- Message 1: Update the unstable legal regulation with regulation id = *R0800150*, published date = *2009-01-01*, official journal number = *01*, official journal page = *01*.

Transaction 4:

- Message 1: Update the unstable legal regulation with regulation id = *R0800110*, published date = *2009-01-01*, official journal number = *01*, official journal page = *01*.

Expected output:

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

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.id : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

- Message 1, on legal.regulation.ref : OK.

Message: **dm_reg_update_02.xml**

Precondition: Make sure the dm_reg_update_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable legal regulation with regulation id = *R0800120*, published date = *2009-01-01*, official journal number = *01*, official journal page = *01*, information text = *11*.

Transaction 2:

- Message 1: Request the legal regulation with query space field = *LEGAL REGULATION.LEGAL REGULATION
REF.Regulation id*, operator = =, constant = *R0800120*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 3:

- Message 1: Update the stable legal regulation with regulation id = R0800150, published date = 2009-01-01, official journal number = 01, official journal page = 01.

Transaction 4:

- Message 1: Update the unstable legal regulation with regulation id = R0800120, published date = 2009-01-01, official journal number = 01, official journal page = 01.

Transaction 5:

- Message 1: Update the stable legal regulation with regulation id = R0800110, published date = 2009-01-01, official journal number = 01, official journal page = 01.

Expected output:

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

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.id : VR-VI-1: Data to be updated must exist.

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Message: dm_reg_update_03.xml

Precondition: Make sure the dm_reg_update_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable legal regulation with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = R0800110, published date = 2009-01-01, official journal page = 01, information text = 11.

Transaction 2:

- Message 1: Update the stable legal regulation with regulation id = R0800110, published date = 2009-01-01, official journal number = 01, information text = 11.

Transaction 3:

- Message 1: Update the stable legal regulation with regulation id = R0800110, official journal number = 01, official journal page = 01, information text = 11.

Transaction 4:

- Message 1: Update the unstable legal regulation with regulation id = R0800120, published date = 2009-01-01, official journal number = 01, official journal page = 01, information text = 11.

Expected output:

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

Reply to transaction 1:

- Message 1, on official.journal.number : VR-REG-4: Official journal number is mandatory for a non-draft legal-regulation.

Reply to transaction 2:

- Message 1, on official.journal.page : VR-REG-4: Official journal page is mandatory for a non-draft legal-regulation.

Reply to transaction 3:

- Message 1, on published.date : VR-REG-4: Publication date is mandatory for a non-draft legal-regulation.

Reply to transaction 4:

- 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_reg_update_04.xml

Precondition: Make sure the dm_reg_update_03.xml message has been successfully processed.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable legal regulation with regulation id = R0800110, published date = 2009-01-01, official journal page = 01, information text = 11.

Transaction 2:

- Message 1: Update the stable legal regulation with regulation id = R0800110, published date = 2009-01-01, official journal number = 01, information text = 11.

Transaction 3:

- Message 1: Update the stable legal regulation with regulation id = R0800110, official journal number = 01, official journal page = 01, information text = 11.

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

Reply to transaction 1:

- Message 1, on official.journal.number : VR-REG-4: Official journal number is mandatory for a non-draft legal-regulation.

Reply to transaction 2:

- Message 1, on official.journal.page : VR-REG-4: Official journal page is mandatory for a non-draft legal-regulation.

Reply to transaction 3:

- Message 1, on published.date : VR-REG-4: Publication date is mandatory for a non-draft legal-regulation.

Message: dm_reg_update_05.xml

Precondition: Make sure the dm_reg_update_04.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable legal regulation with regulation id = R0800120, published date = 2009-01-01,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

official journal page = 01, information text = 11.

Transaction 2:

- Message 1: Update the stable legal regulation with regulation id = R0800120, published date = 2009-01-01, official journal number = 01, information text = 11.

Transaction 3:

- Message 1: Update the stable legal regulation with regulation id = R0800120, official journal number = 01, official journal page = 01, information text = 11.

Expected output:

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

Reply to transaction 1:

- Message 1, on official.journal.number : VR-REG-4: Official journal number is mandatory for a non-draft legal-regulation.

Reply to transaction 2:

- Message 1, on official.journal.page : VR-REG-4: Official journal page is mandatory for a non-draft legal-regulation.

Reply to transaction 3:

- Message 1, on published.date : VR-REG-4: Publication date is mandatory for a non-draft legal-regulation.

2.2.4. Test case dm_reg_delete: Deletion of a legal regulation

Message: dm_reg_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_legal_regulation_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 legal regulation with regulation id = R0800200, published date = 2000-01-01, official journal number = 1, official journal page = 1.

Transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable legal regulation with regulation id = *R0800210*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0800220*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4:

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

Transaction 4b:

- Message 1: Insert a stable legal regulation with regulation id = *R0800230*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 4c:

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

Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0800230*, regulation role type = *1*, start date = *2000-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Expected output:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 1:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

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

Reply to transaction 4b:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4c:

- Message 1, on regulation.role.type.ref : OK.

Reply to transaction 5:

- Message 1, on base.regulation.ref : OK.

Message: **dm_reg_delete_01.xml**

Precondition: Make sure the message dm_reg_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 legal regulation with regulation id = *R0800200*.

Transaction 2:

- Message 1: Delete the legal regulation with regulation id = *R0800210*.

Transaction 3:

- Message 1: Request the legal regulation with query space field = *LEGAL REGULATION.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800200*.
- Message 2: Request the legal regulation with query space field = *LEGAL REGULATION.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0800210*.

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Delete the legal regulation with regulation id = R0800200.

Transaction 5:

- Message 1: Delete the legal regulation with regulation id = R0800210.

Transaction 6:

- Message 1: Delete the legal regulation with regulation id = R0800230.

Expected output:

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

Reply to transaction 1:

- Message 1, on regulation.id : OK.

Reply to transaction 2:

- Message 1, on regulation.id : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on regulation.id : VR-REG-3: The legal-regulation cannot be deleted if it is used in a role-regulation.

2.3. Base regulation

2.3.1. Test case dm_bas_setup_01.xml: Insertion of base regulation reference data.

Message: dm_bas_setup_01.xml

Precondition: First, make sure the database is empty.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Content: The message is composed of the following transactions:

Transaction 1:

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 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 = *Règlement de base.*
 - description 3: language id = *NL*, description = *Basisverordening.*
- Message 2: Insert a stable regulation role type with regulation role type id = *2*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *Provisional anti-dumping/countervailing duty.*
 - description 2: language id = *FR*, description = *Droit anti-dumping/compensateur provisoire.*
 - description 3: language id = *NL*, description = *Voorlopig antidumping-/compenserend recht.*
- Message 3: Insert a stable regulation role type with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation role type id = 3, start date = 2000-01-01:

- description 1: language id = *EN*, description = *Definitive anti-dumping/countervailing duty.*
- description 2: language id = *FR*, description = *Droit anti-dumping/compensateur définitif.*
- description 3: language id = *NL*, description = *Definitief antidumping/compenserend recht.*
- Message 4: Insert a stable regulation role type with regulation role type id = 4, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Modification.*
 - description 2: language id = *FR*, description = *Modification.*
 - description 3: language id = *NL*, description = *Wijziging.*
- Message 5: Insert a stable regulation role type with regulation role type id = 5, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Prorogation.*
 - description 2: language id = *FR*, description = *Prorogation.*
 - description 3: language id = *NL*, description = *Verlenging.*
- Message 6: Insert a stable regulation role type with regulation role type id = 6, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Complete abrogation.*
 - description 2: language id = *FR*, description = *Abrogation complète.*
 - description 3: language id = *NL*, description = *Volledige afschaffing.*
- Message 7: Insert a stable regulation role type with regulation role type id = 7, start date = 2000-01-01:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Explicit abrogation.

- description 2: language id = *FR*, description = *Abrogation explicite.*
- description 3: language id = *NL*, description = *Expliciete afchaffing.*
- Message 8: Insert a stable regulation role type with regulation role type id = 8, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Regulation which temporarily suspends all another regulation (FTS - Full Temporary Stop).*
 - description 2: language id = *FR*, description = *Réglement qui suspend temporairement tout un autre règlement (FTS - Full Temporary Stop).*
 - description 3: language id = *NL*, description = *Verordening die tijdelijk de toepassing van een andere verordening opschort (FTS - Full Temporary Stop).*

Transaction 3:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801000*, published date = 2000-01-01, official journal number = *OL101*, official journal page = 123.

Transaction 4:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = 2000-01-01, official journal number = *OL101*, official journal page = 123.
- Message 2: Insert a stable legal regulation with regulation id = *R0801020*, published date = 2000-01-01, official journal number = *OL101*, official journal page = 123.
- Message 3: Insert a stable legal regulation with regulation id = *R0801030*, published date = 1999-01-01, official journal number = *OL101*, official journal page = 123.
- Message 4: Insert a stable legal regulation with regulation id = *R0801040*, published date = 2000-01-01, official journal number = *OL101*, official journal page =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

123.

- Message 5: Insert a stable legal regulation with regulation id = *R0801050*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 6: Insert a stable legal regulation with regulation id = *R0801060*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 7: Insert a stable legal regulation with regulation id = *R0801070*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 8: Insert a stable legal regulation with regulation id = *R0801080*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 9: Insert a stable legal regulation with regulation id = *R0801090*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 10: Insert a stable legal regulation with regulation id = *C0801010*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 11: Insert a stable legal regulation with regulation id = *C0801020*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 12: Insert a stable legal regulation with regulation id = *C0801030*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.

Transaction 10:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French description.

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

Transaction 11:

- Message 1: Insert an unstable regulation group with regulation group id = *GGB*, start date = *2009-01-01*, end date = *2009-12-01*:
 - description 1: language id = *EN*, description = *English description.*
 - description 2: language id = *FR*, description = *French description.*
 - description 3: language id = *NL*, description = *Dutch description.*

Transaction 12:

- Message 1: Insert an unstable regulation group with regulation group id = *GGC*, 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 13:

- Message 1: Insert a stable regulation group with regulation group id = *GAA*, 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 14:

- Message 1: Insert a stable regulation group with regulation group id = *REX*, start date = *2001-01-01*:
 - description 1: language id = *EN*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

English description.

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

Transaction 15:

- Message 1: Insert a stable regulation group with regulation group id = *AGR*, 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.*

Expected output:

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

Reply to transaction 1:

Reply to transaction 1:

- Message 1, on language.ref : OK.
- Message 2, on language.ref : OK.
- Message 3, on language.ref : OK.

Reply to transaction 2:

- Message 1, on regulation.role.type.ref : OK.
- Message 2, on regulation.role.type.ref : OK.
- Message 3, on regulation.role.type.ref : OK.
- Message 4, on regulation.role.type.ref : OK.
- Message 5, on regulation.role.type.ref : OK.
- Message 6, on regulation.role.type.ref : OK.
- Message 7, on regulation.role.type.ref : OK.
- Message 8, on regulation.role.type.ref : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on legal.regulation.ref : OK.
- Message 2, on legal.regulation.ref : OK.
- Message 3, on legal.regulation.ref : OK.
- Message 4, on legal.regulation.ref : OK.
- Message 5, on legal.regulation.ref : OK.
- Message 6, on legal.regulation.ref : OK.
- Message 7, on legal.regulation.ref : OK.
- Message 8, on legal.regulation.ref : OK.
- Message 9, on legal.regulation.ref : OK.
- Message 10, on legal.regulation.ref : OK.
- Message 11, on legal.regulation.ref : OK.
- Message 12, on legal.regulation.ref : OK.

Reply to transaction 10:

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

Reply to transaction 11:

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

Reply to transaction 12:

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

Reply to transaction 13:

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

Reply to transaction 14:

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

Reply to transaction 15:

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

2.3.2. Test case dm_bas_insert_01.xml: Insertion of an unstable base regulation.

Message: dm_bas_insert_01.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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

dm_bas_setup_01.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 base regulation with regulation id = *R0801010*, regulation role type = *1*, end date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801010*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = *=*, constant = *1*.

Transaction 3:

- 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 4:

- Message 1: Insert an unstable base regulation with regulation id = *R0800990*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 5:

- Message 1: Insert an unstable base regulation with regulation id = *AR0801010*, regulation role type = *1*, community code = *1*, regulation group id = *GGAb*, approved flag = *1*.

Transaction 6:

- Message 1: Insert an unstable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2009-12-01*, end date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Insert an unstable base regulation with regulation id = *R0801020*, regulation role type = *1*, community code = *9*, regulation group id = *GGA*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

approved flag = 1.

Transaction 8:

- Message 1: Insert an unstable base regulation with regulation id = R0801020, regulation role type = 1, community code = 1, regulation group id = GGE, approved flag = 1.

Transaction 9:

- Message 1: Insert an unstable base regulation with regulation id = R0801020, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 0.

Transaction 10:

- Message 1: Insert an unstable base regulation with regulation id = R0801020, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA.

Transaction 11:

- Message 1: Insert an unstable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 12:

- Message 1: Request the base regulation with operator = AND, query space field = BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801020, query space field = BASE REGULATION.BASE REGULATION REF.Regulation role type, operator = =, constant = 2.

Transaction 13:

- Message 1: Insert an unstable base regulation with regulation id = R0801020, regulation role type = 3, start date = 2009-02-01, regulation id = R0801020, regulation role type = 2, community code = 1, regulation group id = GGA, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on base.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 5:

- Message 1, on regulation.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on regulation.group.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on community.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 8:

- Message 1, on regulation.group.id : VR-BAS-2: The referenced regulation group must exist.

Reply to transaction 9:

- Message 1, on approved.flag : VR-ROL-3: Any non-draft regulation must be approved.

Reply to transaction 10:

- Message 1, on base.regulation : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on related.anti-dumping.regulation.ref : VR-BAS-16: Only stable anti-dumping regulations may have

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

related anti-dumping regulations.

2.3.3. Test case **dm_bas_insert_02.xml**: Insertion of a stable base regulation.

Message: **dm_bas_insert_02.xml**

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm_bas_setup_01.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 base regulation with regulation id = *R0801030*, regulation role type = *1*, start date = *2009-01-01*, end date = *2015-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801030*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = *=*, constant = *1*.

Transaction 3:

- Message 1: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = *R0801000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-03-01*, end date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable base regulation with regulation id = *R0800990*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *AR0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGAa*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *0*.

Transaction 9:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *5*, regulation group id = *GGA*, approved flag = *1*.

Transaction 11:

- Message 1: Insert an unstable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGE*, approved flag = *1*.

Transaction 12:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *1990-12-10*, end date = *2009-01-10*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 13:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, regulation id = *R0801040*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

id = *R0801040*, regulation role type = 2, start date = *2009-01-01*, regulation id = *R9999999*, regulation role type = 3, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = 2, start date = *2009-01-01*, end date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 16:

- Message 1: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = 3, start date = *2009-02-01*, regulation id = *R0801050*, regulation role type = 2, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801050*, regulation role type = 6:

regulation id = *R0801050*, regulation role type = 2.

approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = 3, start date = *2009-02-02*, regulation id = *R0801050*, regulation role type = 2, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 19:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 1, start date = *2009-01-01*, community code = *1*, regulation group id = *GGB*, approved flag = *1*.

Transaction 20:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 2, start date = *2009-01-01*, regulation id = *R0801030*, regulation role type = 1, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 21:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 3, start date = *2009-01-01*, regulation id = *R0801030*, regulation role type = 1, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 22:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 2, start date = *2009-01-01*, end date = *2009-02-01*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 3, start date = *2009-02-02*, regulation id = *R0801040*, regulation role type = 2, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 24:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801040*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = 2.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on base.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 7:

- Message 1, on regulation.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on regulation.group.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 8:

- Message 1, on approved.flag : VR-ROL-3: Any non-draft regulation must be approved.

Reply to transaction 9:

- 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 10:

- Message 1, on community.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 11:

- Message 1, on regulation.group.id : VR-BAS-2: The referenced regulation group must exist.

Reply to transaction 12:

- Message 1, on base.regulation.ref : VR-BAS-3: The validity period of the regulation group must always span the validity period of the base regulation, whatever changes the base regulation or the regulation group validity periods might undergo.

Reply to transaction 13:

- Message 1, on regulation.role.type : VR-BAS-5: Only provisional and definitive anti-dumping regulations may have a 'related anti-dumping regulation reference'.

Reply to transaction 14:

- Message 1, on base.regulation.ref : VR-BAS-6: The related anti-dumping regulation must exist.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 15:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on base.regulation.ref : VR-BAS-7: The validity period of the definitive anti-dumping regulation must be contiguous to the validity period of the provisional anti-dumping regulation.

Reply to transaction 17:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on base.regulation.ref : VR-BAS-8: When creating the relationship between a provisional anti-dumping regulation and a definitive anti-dumping regulation, neither the provisional anti-dumping regulation nor the definitive anti-dumping regulation can be completely abrogated.

Reply to transaction 19:

- Message 1, on base.regulation.ref : VR-BAS-11: The regulation group must be stable when the base regulation is stable.

Reply to transaction 20:

- Message 1, on regulation.role.type : VR-BAS-14: A provisional anti-dumping regulation can only refer to an anti-dumping regulation of role 'definitive anti-dumping'.

Reply to transaction 21:

- Message 1, on regulation.role.type : VR-BAS-15: A definitive anti-dumping regulation can only refer to an anti-dumping regulation of role 'provisional anti-dumping'.

Reply to transaction 22:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.3.4. Test case **dm_bas_update_setup_01.xml**: Insertion of update base regulation reference data.

Message: **dm_bas_update_setup_01.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the *dm_bas_setup_01.xml* message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

Transaction 1:

- Message 1: Insert an unstable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 2: Insert an unstable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *3*, start date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 4: Insert an unstable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 5: Insert an unstable base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 6: Insert a stable base regulation with regulation id = *R0801060*, regulation role type = *3*, start date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 7: Insert an unstable base regulation with regulation id = *C0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

group id = *GGA*, approved flag = *1*.

- Message 8: Insert an unstable base regulation with regulation id = *C0801020*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *0*.
- Message 9: Insert an unstable base regulation with regulation id = *C0801030*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *0*.
- Message 10: Insert an unstable modification regulation with regulation id = *R0801040*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801040*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801060*, regulation role type = *6*:

regulation id = *R0801060*, regulation role type = *3*.

approved flag = *1*.

Transaction 3:

- Message 1: Insert an unstable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.
- Message 2: Insert an unstable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *English Description of SG.*

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

Transaction 4:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *101*:
 - description period 1: start date = *2008-01-01*,
description period sid = *101*:
 - description 1: language id = *EN*,
description = *English Description of 0100000000.*
 - description 2: language id = *FR*,
description = *French Description of 0100000000.*
 - description 3: language id = *NL*,
description = *Dutch Description of 0100000000.*
 - indent 1: indent sid = *101*, start date = *2008-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 5:

- Message 1: Insert an unstable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB.*
 - description 2: language id = *FR*, description = *French Description of TB.*
 - description 3: language id = *NL*, description = *Dutch Description of TB.*

measure type combination = *0*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 6:

- Message 1: Insert an unstable measure type with measure type id = 138, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English Description of 138.*
 - description 2: language id = FR, description = *French Description of 138.*
 - description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2015-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2015-01-01.

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.

Transaction 7:

- Message 1: Insert an unstable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2010-01-01, measure sid = 10, end date = 2011-01-01, regulation id = C0801020, regulation role type = 1, regulation id = C0801030, regulation role type = 1.
- Message 2: Insert an unstable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 20, regulation id = R0801050, regulation role type = 1.

Expected output:

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

Reply to transaction 1:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.
- Message 8, on base.regulation.ref : OK.
- Message 9, on base.regulation.ref : OK.
- Message 10, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.

Reply to transaction 4:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 5:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 6:

- Message 1, on measure.type.ref : OK.

Reply to transaction 7:

- Message 1, on measure : OK.
- Message 2, on measure : OK.

2.3.5. Test case dm_bas_update_setup_02.xml: Insertion of update base regulation reference data.

Message: dm_bas_update_setup_02.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the *dm_bas_setup_01.xml* message should be successfully processed

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 2: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *3*, start date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 4: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 5: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = *2*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 6: Insert a stable base regulation with regulation id = *R0801060*, regulation role type = *3*, start date = *2009-02-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 7: Insert a stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 8: Insert a stable base regulation with regulation id = *C0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 9: Insert a stable base regulation with regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

id = C0801020, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 0.

- Message 10: Insert a stable base regulation with regulation id = C0801030, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 0.
- Message 11: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, regulation id = R0801040, regulation role type = 1, approved flag = 1.

Transaction 3:

- Message 1: Insert a stable complete abrogation regulation with regulation id = R0801010, regulation role type = 6:

regulation id = R0801050, regulation role type = 2, regulation id = R0801060, regulation role type = 3.

approved flag = 1.

Transaction 4:

- Message 1: Insert a stable country with country id = SF, start date = 2008-01-01, country sid = 103, area code = 0:

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

- Message 2: Insert a stable country with country id = SG, start date = 2008-01-01, country sid = 104, area code = 0:

- description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of SG*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *101*:
 - description period 1: start date = *2008-01-01*, description period sid = *101*:
 - description 1: language id = *EN*,
description = *English Description of 0100000000*.
 - description 2: language id = *FR*,
description = *French Description of 0100000000*.
 - description 3: language id = *NL*,
description = *Dutch Description of 0100000000*.
 - indent 1: indent sid = *101*, start date = *2008-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 6:

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

measure type combination = *0*.

Transaction 7:

- Message 1: Insert a stable measure type with measure

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

type id = 138, start date = 2008-01-01:

- description 1: language id = EN, description = *English Description of 138.*
- description 2: language id = FR, description = *French Description of 138.*
- description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01.
- associated regulation group 2: regulation group id = REX, 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.

Transaction 8:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 010000000, productline suffix = 80, start date = 2010-01-01, measure sid = 10, end date = 2011-01-01, regulation id = C0801020, regulation role type = 1, regulation id = C0801030, regulation role type = 1.

Transaction 9:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 010000000, productline suffix = 80, start date = 2009-01-01, measure sid = 11, regulation id = R0801070, regulation role type = 1.

Expected output:

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

Reply to transaction 1:

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.
- Message 8, on base.regulation.ref : OK.
- Message 9, on base.regulation.ref : OK.
- Message 10, on base.regulation.ref : OK.
- Message 11, on modification.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.

Reply to transaction 5:

- Message 1, on goods.nomenclature.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.

Reply to transaction 8:

- Message 1, on measure : OK.

Reply to transaction 9:

- Message 1, on measure : OK.

2.3.6. Test case dm_bas_update_setup_03.xml: Insertion of update base regulation reference data.

Message: dm_bas_update_setup_03.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_bas_setup_01.xml message should be successfully processed by the system.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Content: The message is composed of the following transactions:

Transaction 1:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 2: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2008-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 4: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 5: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 6: Insert a stable base regulation with regulation id = *R0801060*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 7: Insert a stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 8: Insert a stable base regulation with regulation id = *R0801080*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 9: Insert a stable base regulation with regulation id = *R0801090*, regulation role type = *1*, start date = *2008-01-01*, end date = *2015-01-01*, community code =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

1, regulation group id = *GGA*, approved flag = *1*.

- Message 10: Insert a stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801060*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description = *Dutch Description of TB*.

measure type combination = *0*.

Transaction 3:

- Message 1: Insert a stable country with country id = *SJ*, start date = *2008-01-01*, country sid = *101*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
- Message 2: Insert a stable country with country id = *SV*, start date = *2008-01-01*, country sid = *102*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *NL*,
description = *Dutch Description of SV*.
- Message 3: Insert a stable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
- Message 4: Insert a stable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
- Message 5: Insert a stable country with country id = *SH*, start date = *2008-01-01*, country sid = *105*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.

Transaction 4:

- Message 1: Insert a stable country group with country

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

group id = *CNTG*, start date = *2008-01-01*, country group sid = *107*, end date = *2015-01-01*, area code = *1*:

- description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description country group*.
 - description 2: language id = *FR*, description = *French description country group*.
 - description 3: language id = *NL*, description = *Dutch description country group*.
- country member 1: country id = *SJ*, start date = *2008-01-01*, country sid = *101*, start date = *2008-01-01*, end date = *2009-01-01*.
- country member 2: country id = *SH*, start date = *2008-01-01*, country sid = *105*, start date = *2009-10-01*, end date = *2015-01-01*.
- country member 3: country id = *SF*, start date = *2008-01-01*, country sid = *103*, start date = *2010-01-01*, end date = *2015-01-01*.

Transaction 5:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *100000*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

nomenclature group facility code = *0*.

Transaction 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *9900000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

1:

- description period 1: start date = 2008-01-01, description period sid = 1:

- description 1: language id = EN, description = *English Description of 9900000000*.
- description 2: language id = FR, description = *French Description of 9900000000*.
- description 3: language id = NL, description = *Dutch Description of 9900000000*.

- indent 1: indent sid = 1, start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 101, end date = 2015-01-01:

- description period 1: start date = 2008-01-01, description period sid = 101:

- description 1: language id = EN, description = *English Description of 0100000000*.
- description 2: language id = FR, description = *French Description of 0100000000*.
- description 3: language id = NL, description = *Dutch Description of 0100000000*.

- indent 1: indent sid = 101, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 9900000000, productline suffix = 80, start date = 2008-01-01,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

goods nomenclature sid = 1.

statistical indicator = 0.

- Message 3: Insert a stable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 102, end date = 2015-01-01:
 - description period 1: start date = 2008-01-01, description period sid = 102:
 - description 1: language id = EN, description = *English Description of 0200000000.*
 - description 2: language id = FR, description = *French Description of 0200000000.*
 - description 3: language id = NL, description = *Dutch Description of 0200000000.*
 - indent 1: indent sid = 102, start date = 2008-01-01, indent number = 10.

goods nomenclature id = 9900000000,
productline suffix = 80, start date = 2008-01-01,
goods nomenclature sid = 1.

- nomenclature group membership 1:
nomenclature group type id = X, nomenclature group id = 100000, start date = 2008-01-01, end date = 2015-01-01.

statistical indicator = 0.

Transaction 7:

- Message 1: Insert a stable duty expression with duty expression id = 72, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English description of 72.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 2: language id = *FR*, description = *French description of 72.*
- description 3: language id = *NL*, description = *Dutch Description of 72.*

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

Transaction 8:

- Message 1: Insert a stable monetary unit with monetary unit code = *LOL*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 measurement unit qualifier with measurement unit qualifier code = *Z*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 10:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description for measurement VTT.

measurement unit qualifier code = Z, start date = 2008-01-01, end date = 2015-01-01.

qualifier required = 0.

Transaction 11:

- Message 1: Insert a stable certificate type with certificate type code = C, start date = 2008-01-01, end date = 2015-01-01:
 - 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 12:

- Message 1: Insert a stable certificate with certificate type code = C, certificate code = CER, start date = 2008-01-01, end date = 2015-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description for certificate CER.*
 - description 2: language id = FR, description = *French Description for certificate CER.*
 - description 3: language id = NL, description = *Dutch Description for certificate CER.*

Transaction 13:

- Message 1: Insert a stable measure condition code with condition code = CC, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English Description of CC.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Transaction 14:

- Message 1: Insert a stable measure action code with action code = *101*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of MAC302.*
 - description 2: language id = *FR*, description = *French Description of MAC302.*
 - description 3: language id = *NL*, description = *Dutch Description of MAC302.*

Transaction 15:

- Message 1: Insert a stable additional code type with additional code type id = *Z*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 additional code type with additional code type id = *9*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

application code = *0*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 16:

- Message 1: Insert a stable additional code with additional code type id = Z, additional code id = 111, start date = 2008-01-01, additional code sid = 115, end date = 2015-01-01:
 - 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 17:

- Message 1: Insert a stable measure type with measure type id = 138, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English Description of 138.*
 - description 2: language id = FR, description = *French Description of 138.*
 - description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2015-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = Z, start date = 2008-01-01, end date = 2015-01-01.

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.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 2: Insert a stable measure type with measure type id = 139, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = EN, description = *English Description of 139.*
- description 2: language id = FR, description = *French Description of 139.*
- description 3: language id = NL, description = *Dutch Description of 139.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2015-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = 9, start date = 2008-01-01, end date = 2015-01-01.

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.

Transaction 18:

- Message 1: Insert a stable footnote type with footnote type id = ACD, 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 = 7.

Transaction 19:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

= ACD, footnote id = 01000, start date = 2008-01-01, end date = 2010-01-01:

- description period 1: start date = 2008-01-01, description period sid = 117:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

Transaction 20:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, goods nomenclature sid = 102, additional code type id = 9, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 19, end date = 2015-01-01:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.
 - indent 1: indent sid = 19, start date = 2008-01-01, indent number = 1.

Transaction 21:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-05-01, measure sid = 116, end date = 2009-06-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801030, regulation role type = 1.

Transaction 22:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SV, goods nomenclature id = 0100000000, productline suffix = 80, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2008-01-01, measure sid = 117, end date = 2008-06-01,
regulation id = R0801020, regulation role type = 1,
regulation id = R0801020, regulation role type = 1.

Transaction 23:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SV, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 118, regulation id = R0801030, regulation role type = 1.

Transaction 24:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = Z, additional code id = 111, start date = 2008-01-01, additional code sid = 115, start date = 2009-01-01, measure sid = 119, regulation id = R0801040, regulation role type = 1:
 - measure component 1: duty expression id = 72, measurement unit code = VTT, measurement unit qualifier code = Z, monetary unit code = LOL, duty amount = 10.000.
 - associated footnote 1: footnote type id = ACD, footnote id = 01000.

Transaction 25:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2012-01-01, measure sid = 120, regulation id = R0801090, regulation role type = 1.

Transaction 26:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0200000000, productline suffix = 80, start date = 2009-01-01, measure sid = 121, regulation id = R0801050, regulation role type = 1:
 - measure condition 1: condition code = CC, sequence number = 001, measure condition code sid = 121, certificate type code = C, certificate code = CER, measurement unit code = VTT, measurement unit qualifier code = Z, monetary

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

unit code = *LOL*, action code = *101*:

- measure component 1: duty expression id = *72*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary unit code = *LOL*, duty amount = *10.000*.
- associated footnote 1: footnote type id = *ACD*, footnote id = *01000*.

Transaction 27:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SG*, goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2012-01-01*, measure sid = *122*, regulation id = *R0801090*, regulation role type = *1*.

Transaction 28:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SV*, goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *123*, regulation id = *R0801010*, regulation role type = *4*:
 - measure condition 1: condition code = *CC*, sequence number = *001*, measure condition code sid = *122*, certificate type code = *C*, certificate code = *CER*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary unit code = *LOL*, action code = *101*:
 - measure component 1: duty expression id = *72*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary unit code = *LOL*, duty amount = *10.000*.
 - associated footnote 1: footnote type id = *ACD*, footnote id = *01000*.

Transaction 29:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SF*, goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *124*, regulation id = *R0801070*, regulation role type = *1*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 30:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SH, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 125, regulation id = R0801080, regulation role type = 1:
 - measure pts 1: start date = 2009-01-01, regulation id = R0801010, end date = 2009-10-01, official journal number = 01, official journal page = 111, abrogation regulation id = R0801010, abrogation official journal number = 01, abrogation official journal page = 111.

Transaction 31:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = CNTG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 126, regulation id = R0801080, regulation role type = 1:
 - excluded area 1: geographical area id = SJ, start date = 2008-01-01, geographical area sid = 101.
 - excluded area 2: geographical area id = SH, start date = 2008-01-01, geographical area sid = 105.
 - measure pts 1: start date = 2009-01-01, regulation id = R0801010, end date = 2009-10-01, official journal number = 01, official journal page = 111, abrogation regulation id = R0801010, abrogation official journal number = 01, abrogation official journal page = 111.

Transaction 32:

- Message 1: Insert a stable measure with measure type id = 139, geographical area id = SJ, goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = 9, additional code id = 010, start date = 2008-01-01, additional code sid = 19, start date = 2009-01-01, measure sid = 127, regulation id = R0801080, regulation role type = 1.

Transaction 33:

- Message 1: Insert a stable measure with measure type id = 139, geographical area id = SJ, goods nomenclature id = 0200000000, productline suffix = 80, additional code

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

type id = 9, additional code id = 010, start date = 2008-01-01, additional code sid = 19, start date = 2008-01-01, measure sid = 128, end date = 2008-12-31, regulation id = R0801090, regulation role type = 1, regulation id = R0801090, regulation role type = 1.

Transaction 34:

- Message 1: Insert a stable fts regulation with regulation id = R0801090, regulation role type = 8, start date = 2012-07-01, end date = 2013-07-01:
 - fts regulation action 1: regulation id = R0801090, regulation role type = 1.
- approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.
- Message 8, on base.regulation.ref : OK.
- Message 9, on base.regulation.ref : OK.
- Message 10, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 3:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.
- Message 3, on country.ref : OK.
- Message 4, on country.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 5, on country.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.
- Message 3, on goods.nomenclature.ref : OK.

Reply to transaction 7:

- Message 1, on duty.expression.ref : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 10:

- Message 1, on measurement.unit.ref : OK.

Reply to transaction 11:

- Message 1, on certificate.type.ref : OK.

Reply to transaction 12:

- Message 1, on certificate.ref : OK.

Reply to transaction 13:

- Message 1, on measure.condition.code.ref : OK.

Reply to transaction 14:

- Message 1, on measure.action.code.ref : OK.

Reply to transaction 15:

- Message 1, on additional.code.type.ref : OK.
- Message 2, on additional.code.type.ref : OK.

Reply to transaction 16:

- Message 1, on additional.code.ref : OK.

Reply to transaction 17:

- Message 1, on measure.type.ref : OK.
- Message 2, on measure.type.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 18:

- Message 1, on footnote.type.ref : OK.

Reply to transaction 19:

- Message 1, on footnote.ref : OK.

Reply to transaction 20:

- Message 1, on export.refund.nomenclature.ref : OK.

Reply to transaction 21:

- Message 1, on measure : OK.

Reply to transaction 22:

- Message 1, on measure : OK.

Reply to transaction 23:

- Message 1, on measure : OK.

Reply to transaction 24:

- Message 1, on measure : OK.

Reply to transaction 25:

- Message 1, on measure : OK.

Reply to transaction 26:

- Message 1, on measure : OK.

Reply to transaction 27:

- Message 1, on measure : OK.

Reply to transaction 28:

- Message 1, on measure : OK.

Reply to transaction 29:

- Message 1, on measure : OK.

Reply to transaction 30:

- Message 1, on measure : OK.

Reply to transaction 31:

- Message 1, on measure : OK.

Reply to transaction 32:

- Message 1, on measure : OK.

Reply to transaction 33:

- Message 1, on measure : OK.

Reply to transaction 34:

- Message 1, on fts.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.3.7. Test case **dm_bas_update_setup_04.xml**: Insertion of update base regulation reference data.

Message: **dm_bas_update_setup_04.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_bas_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 2: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.
- Message 4: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.
- Message 5: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.
- Message 6: Insert a stable base regulation with regulation id = *R0801060*, regulation role type = *1*, start date = *2009-01-01*, end date = *2010-01-01*, community code = *1*, regulation group id = *AGR*, approved flag = *1*.
- Message 7: Insert a stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2009-01-01, end date = 2012-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

- Message 8: Insert a stable base regulation with regulation id = R0801080, regulation role type = 1, start date = 2009-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 9: Insert a stable base regulation with regulation id = R0801090, regulation role type = 1, start date = 2009-01-01, end date = 2012-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 10: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, regulation id = R0801060, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable measure type series with measure type series id = TB, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of TB.*
 - description 2: language id = FR, description = *French Description of TB.*
 - description 3: language id = NL, description = *Dutch Description of TB.*

measure type combination = 0.

Transaction 3:

- Message 1: Insert a stable country with country id = SG, start date = 2001-01-01, country sid = 104, area code = 0:
 - description period 1: start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of SG.*
 - description 2: language id = FR, description = *French Description of SG.*
 - description 3: language id = NL, description = *Dutch Description of SG.*

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable country group with country group id = 1011, start date = 2001-01-01, country group sid = 107, area code = 1:
 - description period 1: start date = 2001-01-01:
 - description 1: language id = EN, description = *English description country group.*
 - description 2: language id = FR, description = *French description country group.*
 - description 3: language id = NL, description = *Dutch description country group.*
 - country member 1: country id = SG, start date = 2001-01-01, country sid = 104, start date = 2001-01-01.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2001-01-01, goods nomenclature sid = 101:
 - description period 1: start date = 2001-01-01, description period sid = 101:
 - description 1: language id = EN, description = *English Description of 0100000000.*
 - description 2: language id = FR, description = *French Description of 0100000000.*
 - description 3: language id = NL, description = *Dutch Description of 0100000000.*
 - indent 1: indent sid = 101, start date = 2001-01-01, indent number = 1.
 statistical indicator = 0.
- Message 2: Insert a stable goods nomenclature with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

goods nomenclature id = 0200000000, productline suffix = 80, start date = 2001-01-01, goods nomenclature sid = 102:

- description period 1: start date = 2001-01-01, description period sid = 102:
 - description 1: language id = EN, description = *English Description of 0200000000.*
 - description 2: language id = FR, description = *French Description of 0200000000.*
 - description 3: language id = NL, description = *Dutch Description of 0200000000.*
- indent 1: indent sid = 102, start date = 2001-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = 01, start date = 2001-01-01:
 - description 1: language id = EN, description = *English description of 01.*
 - description 2: language id = FR, description = *French description of 01.*
 - description 3: language id = NL, description = *Dutch Description of 01.*

duty amount applicability code = 1, measurement unit applicability code = 0, monetary unit applicability code = 0.

- Message 2: Insert a stable duty expression with duty expression id = 14, start date = 2001-01-01:
 - description 1: language id = EN, description = *English description of 14.*
 - description 2: language id = FR, description = *French description of 14.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 3: language id = *NL*, description = *Dutch Description of 14.*

duty amount applicability code = 2, measurement unit applicability code = 0, monetary unit applicability code = 0.

- Message 3: Insert a stable duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = *EN*, description = *English description of 21.*

- description 2: language id = *FR*, description = *French description of 21.*

- description 3: language id = *NL*, description = *Dutch Description of 21.*

duty amount applicability code = 2, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *LOL*, start date = 2008-01-01, end date = 2015-01-01:

- 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 a stable measurement unit qualifier with measurement unit qualifier code = *Z*, start date = 2008-01-01, end date = 2015-01-01:

- 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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description of Z.

Transaction 9:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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.*

measurement unit qualifier code = *Z*, start date = *2008-01-01*, end date = *2015-01-01*.

qualifier required = *0*.

Transaction 10:

- Message 1: Insert a stable additional code type with additional code type id = *7*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 2: Insert a stable additional code type with additional code type id = *9*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

application code = 0.

Transaction 11:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2008-01-01:
 - heading 1: meursing heading number = 010, row column code = 0, start date = 2008-01-01:
 - description 1: language id = EN, description = *English description.*
 - description 2: language id = FR, description = *French description.*
 - description 3: language id = NL, description = *Dutch description.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *subheading.*
 - heading 2: meursing heading number = 010, row column code = 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.*
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *subheading.*
 - heading 3: meursing heading number = 020, row column code = 0, 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,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *Dutch description*.

- subheading 1: sequence number = 0010, start date = 2008-01-01, description = *subheading*.
 - heading 4: meursing heading number = 020, row column code = 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*.
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = 111, start date = 2008-01-01, end date = 2015-01-01:
 - meursing table cell component 1: meursing table plan id = 01, meursing heading number = 010, row column code = 0, sequence number = 0010, start date = 2008-01-01, end date = 2015-01-01.
 - meursing table cell component 2: meursing table plan id = 01, meursing heading number = 010, row column code = 1, sequence number = 0010, start date = 2008-01-01, end date = 2015-01-01.
 - meursing table cell component 3: meursing table plan id = 01, meursing heading number = 020, row column code = 0, sequence number = 0010, start date = 2008-01-01, end date = 2015-01-01.
 - meursing table cell component 4: meursing table plan id = 01, meursing heading number = 020, row column code = 1, sequence number = 0010, start date = 2008-01-01, end date = 2015-01-01.

Transaction 12:

- Message 1: Insert a stable measure type with measure

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

type id = 138, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = EN, description = *English Description of 138.*
- description 2: language id = FR, description = *French Description of 138.*
- description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2015-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2015-01-01.

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 2: Insert a stable measure type with measure type id = 672, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = EN, description = *English Description of 672.*
- description 2: language id = FR, description = *French Description of 672.*
- description 3: language id = NL, description = *Dutch Description of 672.*

measure type series id = TB:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = 7, start date = 2008-01-01, end date = 2015-01-01.

trade movement code = 1, measure explosion level = 10, measure component applicable code = 0, order number

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

capture code = 2, accepted via input bridge = 1, priority code = 1.

- Message 3: Insert a stable measure type with measure type id = 674, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English Description of 674.*
 - description 2: language id = FR, description = *French Description of 674.*
 - description 3: language id = NL, description = *Dutch Description of 674.*

measure type series id = TB:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = 7, start date = 2008-01-01, end date = 2015-01-01.

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.

Transaction 13:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 14, start date = 2009-01-01, end date = 2015-01-01, measure type id = 674, reduction type = R.
- Message 2: Insert a stable agricultural duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2015-01-01, measure type id = 672, reduction type = N.

Transaction 14:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = SG, start date = 2008-05-01, measure agricultural duty expression rule sid = 211, end date = 2012-05-01.
- Message 2: Insert a stable measure agricultural duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

expression rule with measure type id = 138, geographical area id = 1011, start date = 2008-05-01, measure agricultural duty expression rule sid = 212, end date = 2012-05-01.

- Message 3: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = SG, start date = 2013-01-01, measure agricultural duty expression rule sid = 213, end date = 2014-01-01.
- Message 4: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = 1011, start date = 2013-01-01, measure agricultural duty expression rule sid = 214, end date = 2014-01-01.

Transaction 15:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = SG, start date = 2008-05-01, agricultural measure validation rule sid = 220, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 2: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = 1011, start date = 2008-05-01, agricultural measure validation rule sid = 221, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 3: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = SG, start date = 2008-05-01, agricultural measure validation rule sid = 223, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 4: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = 1011, start date = 2008-05-01, agricultural measure validation rule sid = 224, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 5: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = SG, start date = 2013-01-01, agricultural measure validation rule sid = 225, maximum value reduction indicator = 1, end date = 2015-01-01.
- Message 6: Insert a stable agricultural measure validation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

rule with measure type id = 672, geographical area id = 1011, start date = 2013-01-01, agricultural measure validation rule sid = 226, maximum value reduction indicator = 1, end date = 2015-01-01.

- Message 7: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = SG, start date = 2013-01-01, agricultural measure validation rule sid = 227, maximum value reduction indicator = 1, end date = 2015-01-01.
- Message 8: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = 1011, start date = 2013-01-01, agricultural measure validation rule sid = 228, maximum value reduction indicator = 1, end date = 2015-01-01.

Transaction 16:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 2, start date = 2009-01-01, measure sid = 100, regulation id = R0801010, regulation role type = 1:
 - measure component 1: duty expression id = 01, duty amount = 10.000.
 - measure component 2: duty expression id = 14.

Transaction 17:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0200000000, productline suffix = 80, reduction indicator = 1, start date = 2009-01-01, measure sid = 101, regulation id = R0801020, regulation role type = 1:
 - measure component 1: duty expression id = 01, duty amount = 10.000.
 - measure component 2: duty expression id = 21.

Transaction 18:

- Message 1: Insert a stable measure with measure type id = 672, geographical area id = SG, additional code type id = 7, additional code id = 111, start date = 2008-01-01, reduction indicator = 2, start date = 2009-01-01, measure sid = 102, regulation id = R0801030, regulation role type = 1:
 - measure component 1: duty expression id = 01,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

duty amount = *10.000*.

Transaction 19:

- Message 1: Insert a stable measure with measure type id = *672*, geographical area id = *1011*, additional code type id = *7*, additional code id = *111*, start date = *2008-01-01*, reduction indicator = *1*, start date = *2009-01-01*, measure sid = *103*, regulation id = *R0801040*, regulation role type = *1*:
 - measure component 1: duty expression id = *01*, duty amount = *10.000*.

Transaction 20:

- Message 1: Insert a stable measure with measure type id = *674*, geographical area id = *SG*, additional code type id = *7*, additional code id = *111*, start date = *2008-01-01*, reduction indicator = *2*, start date = *2009-01-01*, measure sid = *104*, regulation id = *R0801050*, regulation role type = *1*:
 - measure component 1: duty expression id = *01*, duty amount = *10.000*.

Transaction 21:

- Message 1: Insert a stable measure with measure type id = *674*, geographical area id = *1011*, additional code type id = *7*, additional code id = *111*, start date = *2008-01-01*, reduction indicator = *1*, start date = *2009-01-01*, measure sid = *105*, regulation id = *R0801060*, regulation role type = *1*:
 - measure component 1: duty expression id = *01*, duty amount = *10.000*.

Transaction 22:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SG*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2011-02-01*, measure sid = *106*, regulation id = *R0801070*, regulation role type = *1*:
 - measure component 1: duty expression id = *01*, duty amount = *10.000*.

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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.
- Message 8, on base.regulation.ref : OK.
- Message 9, on base.regulation.ref : OK.
- Message 10, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 3:

- Message 1, on country.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.

Reply to transaction 6:

- Message 1, on duty.expression.ref : OK.
- Message 2, on duty.expression.ref : OK.
- Message 3, on duty.expression.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 9:

- Message 1, on measurement.unit.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 10:

- Message 1, on additional.code.type.ref : OK.
- Message 2, on additional.code.type.ref : OK.

Reply to transaction 11:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.

Reply to transaction 12:

- Message 1, on measure.type.ref : OK.
- Message 2, on measure.type.ref : OK.
- Message 3, on measure.type.ref : OK.

Reply to transaction 13:

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

Reply to transaction 14:

- Message 1, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 2, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 3, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 4, on
measure.agricultural.duty.expression.rule.ref : OK.

Reply to transaction 15:

- Message 1, on agricultural.measure.validation.rule.ref :
OK.
- Message 2, on agricultural.measure.validation.rule.ref :
OK.
- Message 3, on agricultural.measure.validation.rule.ref :
OK.
- Message 4, on agricultural.measure.validation.rule.ref :
OK.
- Message 5, on agricultural.measure.validation.rule.ref :
OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 6, on agricultural.measure.validation.rule.ref : OK.
- Message 7, on agricultural.measure.validation.rule.ref : OK.
- Message 8, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 16:

- Message 1, on measure : OK.

Reply to transaction 17:

- Message 1, on measure : OK.

Reply to transaction 18:

- Message 1, on measure : OK.

Reply to transaction 19:

- Message 1, on measure : OK.

Reply to transaction 20:

- Message 1, on measure : OK.

Reply to transaction 21:

- Message 1, on measure : OK.

Reply to transaction 22:

- Message 1, on measure : OK.

2.3.8. Test case dm_bas_update_01.xml: Update unstable to unstable base regulation.

Message: dm_bas_update_01.xml

Precondition: Make sure the *dm_bas_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 base regulation with regulation id = *R0801000*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Update the unstable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-03-01*, end date = *2009-02-01*, community

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

code = 1, regulation group id = GGA, approved flag = 1.

Transaction 3:

- Message 1: Update the unstable base regulation with regulation id = R0801010, regulation role type = 1, community code = 5, regulation group id = GGA, approved flag = 1.

Transaction 4:

- Message 1: Update the unstable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-02-01, community code = 1, regulation group id = GGE, approved flag = 1.

Transaction 5:

- Message 1: Update the unstable base regulation with regulation id = R0801040, regulation role type = 1, start date = 2009-02-01, community code = 1, regulation group id = GGB, approved flag = 1.

Transaction 7:

- Message 1: Update the unstable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-02-01, regulation id = R0801010, regulation role type = 1, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 8:

- Message 1: Update the unstable base regulation with regulation id = C0801020, regulation role type = 1, start date = 2009-02-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 9:

- Message 1: Update the unstable base regulation with regulation id = C0801020, regulation role type = 1, start date = 2009-02-01, community code = 1, regulation group id = GGB, approved flag = 0.

Transaction 20:

- Message 1: Update the unstable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-02-01, end date = 2010-02-01, community code = 2, regulation group id = GGB, approved flag = 1.

Transaction 21:

- Message 1: Request the base regulation with operator = AND, query space field = BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

REF.Regulation id, operator = =, constant = R0801010, query space field = BASE REGULATION.BASE REGULATION REF.Regulation role type, operator = =, constant = 1.

Transaction 22:

- Message 1: Update the unstable base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 23:

- Message 1: Request the measure with query space field = *MEASURE.MEASURE REF.Measure sid, operator = =, constant = 20.*

Transaction 24:

- Message 1: Update the unstable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, end date = *2015-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 25:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801040, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.*

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on community.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on regulation.group.id : VR-BAS-2: The referenced regulation group must exist.

Reply to transaction 5:

- Message 1, on regulation.group.ref : VR-BAS-4: If the base regulation is modified by a modification regulation, then its regulation group cannot be changed.

Reply to transaction 7:

- Message 1, on related.antidumping.regulation.ref : VR-BAS-16: Only stable anti-dumping regulations may have related anti-dumping regulations.

Reply to transaction 8:

- Message 1, on base.regulation.ref : VR-MGR-30: If the regulation is approved, then the justification regulation of the measures having this regulation as measure-generating regulation must be approved.

Reply to transaction 9:

- Message 1, on base.regulation.ref : VR-MGR-31: The measure type of the measures and the regulation group associated to the base regulation generating the measure or to the base regulation of the modification regulation generating the measure, must be linked through a regulation group-measure type link.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 23:

- Message 1 : OK.

Reply to transaction 24:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 25:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.3.9. Test case *dm_bas_update_02.xml*: Update of unstable to stable base regulation.

Message: *dm_bas_update_02.xml*

Precondition: Make sure the *dm_bas_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 base regulation with regulation id = *R0801000*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *5*, regulation group id = *GGA*, approved flag = *1*.

Transaction 5:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGE*, approved flag = *1*.

Transaction 6:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2000-01-01*, community code = *2*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Update the stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

date = 2009-01-01, community code = 1, regulation group id = GAA, approved flag = 1.

Transaction 8:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, regulation id = R0801030, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 9:

- Message 1: Update the stable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-02-01, regulation id = R0801000, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 10:

- Message 1: Update the stable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-02-01, regulation id = R0801030, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 11:

- Message 1: Update the stable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-01-01, end date = 2009-01-31, regulation id = R0801060, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 12:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGB, approved flag = 1.

Transaction 13:

- Message 1: Update the stable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 14:

- Message 1: Update the stable base regulation with regulation id = R0801030, regulation role type = 3, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, community code = 1, regulation group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

GGA, approved flag = 1.

Transaction 15:

- Message 1: Update the stable base regulation with regulation id = *C0801020*, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 116:

- Message 1: Update the stable base regulation with regulation id = *R0801050*, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = *GAA*, approved flag = 1.

Transaction 117:

- Message 1: Update the stable base regulation with regulation id = *R0801050*, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = *REX*, approved flag = 1.

Transaction 20:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = 1, start date = 2009-01-01, end date = 2010-01-01, community code = 2, regulation group id = *GGA*, approved flag = 1.

Transaction 21:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = =, constant = 1.

Transaction 22:

- Message 1: Update the stable base regulation with regulation id = *R0801050*, regulation role type = 1, start date = 2010-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 23:

- Message 1: Request the measure with query space field = *MEASURE.MEASURE REF.Measure sid*, operator = =, constant = 20.

Transaction 24:

- Message 1: Update the stable base regulation with regulation id = *R0801040*, regulation role type = 1, start

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

date = 2009-01-01, end date = 2015-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 25:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801040, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.

Transaction 26:

- Message 1: Update the stable base regulation with regulation id = R0801020, regulation role type = 2, start date = 2009-01-01, end date = 2009-01-31, regulation id = R0801030, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 27:

- Message 1: Request the base regulation with operator = AND, query space field = BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801030, query space field = BASE REGULATION.BASE REGULATION REF.Regulation role type, operator = =, constant = 3.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.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.

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:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on community.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 5:

- Message 1, on regulation.group.id : VR-BAS-2: The referenced regulation group must exist.

Reply to transaction 6:

- Message 1, on base.regulation.ref : VR-BAS-3: The validity period of the regulation group must always span the validity period of the base regulation, whatever changes the base regulation or the regulation group validity periods might undergo.

Reply to transaction 7:

- Message 1, on regulation.group.ref : VR-BAS-4: If the base regulation is modified by a modification regulation, then its regulation group cannot be changed.

Reply to transaction 8:

- Message 1, on regulation.role.type : VR-BAS-5: Only provisional and definitive anti-dumping regulations may have a 'related anti-dumping regulation reference'.

Reply to transaction 9:

- Message 1, on related.antidumping.regulation.ref : VR-BAS-6: The related anti-dumping regulation must exist.

Reply to transaction 10:

- Message 1, on base.regulation.ref : VR-BAS-7: The validity period of the definitive anti-dumping regulation must be contiguous to the validity period of the provisional anti-dumping regulation.

Reply to transaction 11:

- Message 1, on base.regulation.ref : VR-BAS-8: When creating the relationship between a provisional anti-dumping regulation and a definitive anti-dumping regulation, neither the provisional anti-dumping regulation nor the definitive anti-dumping regulation can be completely abrogated.

Reply to transaction 12:

- Message 1, on base.regulation.ref : VR-BAS-11: The regulation group must be stable when the base regulation is stable.

Reply to transaction 13:

- Message 1, on regulation.role.type : VR-BAS-14: A

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

provisional anti-dumping regulation can only refer to an anti-dumping regulation of role 'definitive anti-dumping'.

Reply to transaction 14:

- Message 1, on regulation.role.type : VR-BAS-15: A definitive anti-dumping regulation can only refer to an anti-dumping regulation of role 'provisional anti-dumping'.

Reply to transaction 15:

- Message 1, on base.regulation.ref : VR-MGR-30: If the regulation is approved, then the justification regulation of the measures having this regulation as measure-generating regulation must be approved.

Reply to transaction 116:

- Message 1, on base.regulation.ref : VR-MGR-31: The measure type of the measures and the regulation group associated to the base regulation generating the measure or to the base regulation of the modification regulation generating the measure, must be linked through a regulation group-measure type link.

Reply to transaction 117:

- Message 1, on base.regulation.ref : VR-MGR-34: If the regulation group is "REX" then the combination of goods code and additional code of all measures having this regulation as measure-generating regulation must be specified and must exist as an ERN product.

Reply to transaction 20:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 23:

- Message 1 : OK.

Reply to transaction 24:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 25:

- Message 1 : OK.

Reply to transaction 26:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : OK.

Reply to transaction 27:

- Message 1 : OK.

2.3.10. Test case dm_bas_update_03.xml: Update of unstable to stable base regulation.

Message: dm_bas_update_03.xml

Precondition: Make sure the *dm_bas_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 base regulation with regulation id = *R0801050*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2008-12-31*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable base regulation with regulation id = *R0801050*, regulation role type = *2*, start date = *2009-01-01*, community code = *2*, regulation group id = *GGA*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable base regulation with regulation id = *C0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *0*.

Transaction 5:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *5*, regulation group id = *GGA*, approved flag = *1*.

Transaction 6:

- Message 1: Update the stable base regulation with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGE*, approved flag = *1*.

Transaction 7:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2000-01-01*, community code = *2*, regulation group id = *GGA*, approved flag = *1*.

Transaction 8:

- Message 1: Update the stable base regulation with regulation id = *R0801040*, regulation role type = *1*, start date = *2009-01-01*, community code = *2*, regulation group id = *GAA*, approved flag = *1*.

Transaction 9:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, regulation id = *R0801030*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 10:

- Message 1: Update the stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-02-01*, regulation id = *R0801010*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 11:

- Message 1: Update the stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-02-01*, regulation id = *R0801030*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 12:

- Message 1: Update the stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-01-01*, end date = *2009-01-31*, regulation id = *R0801060*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 13:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

group id = *GGB*, approved flag = *1*.

Transaction 14:

- Message 1: Update the stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 15:

- Message 1: Update the stable base regulation with regulation id = *R0801030*, regulation role type = *3*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 16:

- Message 1: Update the stable base regulation with regulation id = *C0801020*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 17:

- Message 1: Update the stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *GAA*, approved flag = *1*.

Transaction 18:

- Message 1: Update the stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date = *2009-01-01*, community code = *1*, regulation group id = *REX*, approved flag = *1*.

Transaction 19:

- Message 1: Update the stable base regulation with regulation id = *R0801020*, regulation role type = *2*, start date = *2009-01-01*, end date = *2009-01-31*, regulation id = *R0801030*, regulation role type = *3*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 20:

- Message 1: Request the base regulation with operator = *AND*, query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801030*, query space field = *BASE REGULATION.BASE REGULATION REF.Regulation role type*, operator = *=*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

constant = 3.

Transaction 21:

- Message 1: Update the stable base regulation with regulation id = *R0801070*, regulation role type = *1*, start date = *2010-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 22:

- Message 1: Request the measure with query space field = *MEASURE.MEASURE REF.Measure sid*, operator = *=*, constant = *11*.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on base.regulation.ref : VR-ROL-4: If a role regulation has been abrogated or prorogued, it cannot be modified, apart from modifying a base regulation's regulation group.

Reply to transaction 4:

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 5:

- Message 1, on community.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 6:

- Message 1, on regulation.group.id : VR-BAS-2: The referenced regulation group must exist.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-BAS-3: The validity period of the regulation group must always span the validity period of the base regulation, whatever changes the base regulation or the regulation group

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

validity periods might undergo.

Reply to transaction 8:

- Message 1, on regulation.group.ref : VR-BAS-4: If the base regulation is modified by a modification regulation, then its regulation group cannot be changed.

Reply to transaction 9:

- Message 1, on regulation.role.type : VR-BAS-5: Only provisional and definitive anti-dumping regulations may have a 'related anti-dumping regulation reference'.

Reply to transaction 10:

- Message 1, on related.antidumping.regulation.ref : VR-BAS-6: The related anti-dumping regulation must exist.

Reply to transaction 11:

- Message 1, on base.regulation.ref : VR-BAS-7: The validity period of the definitive anti-dumping regulation must be contiguous to the validity period of the provisional anti-dumping regulation.

Reply to transaction 12:

- Message 1, on base.regulation.ref : VR-BAS-8: When creating the relationship between a provisional anti-dumping regulation and a definitive anti-dumping regulation, neither the provisional anti-dumping regulation nor the definitive anti-dumping regulation can be completely abrogated.

Reply to transaction 13:

- Message 1, on base.regulation.ref : VR-BAS-11: The regulation group must be stable when the base regulation is stable.

Reply to transaction 14:

- Message 1, on regulation.role.type : VR-BAS-14: A provisional anti-dumping regulation can only refer to an anti-dumping regulation of role 'definitive anti-dumping'.

Reply to transaction 15:

- Message 1, on regulation.role.type : VR-BAS-15: A definitive anti-dumping regulation can only refer to an anti-dumping regulation of role 'provisional anti-dumping'.

Reply to transaction 16:

- Message 1, on base.regulation.ref : VR-MGR-30: If the regulation is approved, then the justification regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

of the measures having this regulation as measure-generating regulation must be approved.

Reply to transaction 17:

- Message 1, on base.regulation.ref : VR-MGR-31: The measure type of the measures and the regulation group associated to the base regulation generating the measure or to the base regulation of the modification regulation generating the measure, must be linked through a regulation group-measure type link.

Reply to transaction 18:

- Message 1, on base.regulation.ref : VR-MGR-34: If the regulation group is "REX" then the combination of goods code and additional code of all measures having this regulation as measure-generating regulation must be specified and must exist as an ERN product.

Reply to transaction 19:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 20:

- Message 1 : OK.

Reply to transaction 21:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 22:

- Message 1 : OK.

2.3.11. Test case dm_bas_update_04.xml: Update of unstable to stable base regulation.

Message: dm_bas_update_04.xml

Precondition: Make sure the dm_bas_update_setup_03.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-05-15, end date = 2010-10-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 2:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

date = 2009-01-01, end date = 2009-05-15, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 3:

- Message 1: Update the stable base regulation with regulation id = R0801030, regulation role type = 1, start date = 2009-01-01, end date = 2009-04-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 4:

- Message 1: Update the stable base regulation with regulation id = R0801030, regulation role type = 1, start date = 2008-05-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 5:

- Message 1: Update the stable base regulation with regulation id = R0801040, regulation role type = 1, start date = 2007-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 6:

- Message 1: Update the stable base regulation with regulation id = R0801040, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 7:

- Message 1: Update the stable base regulation with regulation id = R0801050, regulation role type = 1, start date = 2007-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 8:

- Message 1: Update the stable base regulation with regulation id = R0801050, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 9:

- Message 1: Update the stable base regulation with regulation id = R0801060, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 10:

- Message 1: Update the stable base regulation with regulation id = R0801080, regulation role type = 1, start date = 2009-02-01, end date = 2010-10-01, community

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

code = 1, regulation group id = GGA, approved flag = 1.

Transaction 11:

- Message 1: Update the stable base regulation with regulation id = R0801080, regulation role type = 1, start date = 2009-01-01, end date = 2009-09-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 12:

- Message 1: Update the stable base regulation with regulation id = R0801080, regulation role type = 1, start date = 2008-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 13:

- Message 1: Update the stable base regulation with regulation id = R0801090, regulation role type = 1, start date = 2008-01-01, end date = 2013-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 2:

- Message 1, on base.regulation.ref : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 3:

- Message 1, on base.regulation.ref : VR-MGR-13: The justification regulation of the measures having this regulation as measure-generating regulation must be either the measure's measure-generating regulation or a measure-generating regulation, valid on the day after the measure's explicit end date.

Reply to transaction 4:

- Message 1, on base.regulation.ref : VR-MGR-16: The validity period of the measures having this regulation as

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

measure-generating regulation cannot overlap other measure occurrences having a goods nomenclature equal, superior or inferior in the same nomenclature hierarchy and referencing the same measure type, origin/destination area, order number, additional code and reduction indicator.

Reply to transaction 5:

- Message 1, on base.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on base.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on base.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on base.regulation.ref : VR-MGR-11: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the object referenced by their additional code reference (be it an "additional code" element or an "ERN" element or a "Meursing additional code" element).
- Message 1, on base.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on base.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on base.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.

- Message 1, on base.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on base.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.
- Message 1, on base.regulation.ref : VR-MGR-33: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the additional code type_measure type association.

Reply to transaction 6:

- Message 1, on base.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on base.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on base.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on base.regulation.ref : VR-MGR-11: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the object referenced by their additional code reference (be it an "additional code" element or an "ERN" element or a "Meursing additional code" element).
- Message 1, on base.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

validity period of every footnote associated to them.

- Message 1, on base.regulation.ref : VR-MGR-18: The measures having this regulation as measure-generating regulation cannot be integrated with an additional code when an equivalent or overlapping measure with-out additional code already exists, and vice-versa, must be forbidden.
- Message 1, on base.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on base.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on base.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.
- Message 1, on base.regulation.ref : VR-MGR-33: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the additional code type_measure type association.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on base.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on base.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on base.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on base.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on base.regulation.ref : VR-MGR-23: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the condition code of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-24: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the certificate of their measure

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

conditions.

- Message 1, on base.regulation.ref : VR-MGR-25: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-26: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-27: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-28: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the action code of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 8:

- Message 1, on base.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on base.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on base.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on base.regulation.ref : VR-MGR-12: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.

- Message 1, on base.regulation.ref : VR-MGR-16: The validity period of the measures having this regulation as measure-generating regulation cannot overlap other measure occurrences having a goods nomenclature equal, superior or inferior in the same nomenclature hierarchy and referencing the same measure type, origin/destination area, order number, additional code and reduction indicator.
- Message 1, on base.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on base.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on base.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on base.regulation.ref : VR-MGR-23: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the condition code of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-24: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the certificate of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-25: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their measure conditions.

- Message 1, on base.regulation.ref : VR-MGR-26: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-27: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-28: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the action code of their measure conditions.
- Message 1, on base.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 9:

- Message 1 : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1 : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1 : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1 : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1 : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1 : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1 : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1 : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1 : VR-MGR-23: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the condition code of their measure conditions.
- Message 1 : VR-MGR-24: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the certificate of their measure conditions.
- Message 1 : VR-MGR-25: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their measure conditions.
- Message 1 : VR-MGR-26: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their measure conditions.
- Message 1 : VR-MGR-27: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their measure conditions.
- Message 1 : VR-MGR-28: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the action code of their measure conditions.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1 : VR-MGR-32: The validity period of the measure type-regulation group association must span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 12:

- Message 1, on base.regulation.ref : VR-MGR-9: The validity period of the measures having this regulation as measure-generating regulation must overlap the membership period of each excluded area (to the geographical area group referenced as origin/destination for the measure).
- Message 1, on base.regulation.ref : VR-MGR-11: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the object referenced by their additional code reference (be it an "additional code" element or an "ERN" element or a "Meursing additional code" element).
- Message 1, on base.regulation.ref : VR-MGR-29: The validity period of the measures having this regulation as measure-generating regulation must span the PTS period of the PTS regulation.

Reply to transaction 13:

- Message 1, on base.regulation.ref : VR-MGR-9: The validity period of the measures having this regulation as measure-generating regulation must overlap the membership period of each excluded area (to the geographical area group referenced as origin/destination for the measure).
- Message 1, on base.regulation.ref : VR-MGR-29: The validity period of the measures having this regulation as measure-generating regulation must span the PTS period of the PTS regulation.

Reply to transaction 14:

- Message 1, on base.regulation.ref : VR-MGR-17: If the additional code type (part of the additional code reference) of the measure having this regulation as measure-generating regulation has "ERN" or "Meursing" as application code, no hierarchical overlap needs to be considered. Still, there cannot be any overlap in time with other measure occurrences having the same goods nomenclature (possibly an empty goods nomenclature),

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

and referencing the same measure type, origin/destination area, order number, additional code and reduction indicator.

Reply to transaction 15:

- Message 1, on base.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

2.3.12. Test case dm_bas_update_05.xml: Update of unstable to stable base regulation.

Message: dm_bas_update_05.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_bas_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 3:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801010, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.

Transaction 4:

- Message 1: Update the stable base regulation with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2012-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 5:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 6:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-01*, end date = *2011-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 7:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 8:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2009-01-02*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 9:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 10:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

start date = 2010-01-01, end date = 2012-01-01,
regulation id = R0801010, regulation role type = 1,
approved flag = 1.

Transaction 11:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, end date = 2011-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 12:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = GGB, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 5:

- Message 1 : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 9:

- Message 1 : OK.

Reply to transaction 10:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 11:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-BAS-13: The validity period of the base regulation must always span the validity period of all stable modification regulations having an explicit end date or which have been abrogated.

Reply to transaction 12:

- Message 1, on regulation.group.ref : VR-BAS-4: If the base regulation is modified by a modification regulation, then its regulation group cannot be changed.
- Message 1, on base.regulation.ref : VR-BAS-11: The regulation group must be stable when the base regulation is stable.

2.3.13. Test case dm_bas_update_06.xml: Update of unstable to stable base regulation.

Message: **dm_bas_update_06.xml**

Precondition: Make sure the *dm_bas_update_setup_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 base regulation with regulation id = *R0801010*, regulation role type = *I*, start date = *2012-02-01*, end date = *2014-01-01*, community code = *I*, regulation group id = *GGA*, approved flag = *I*.

Transaction 2:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *I*, start date = *2011-02-01*, end date = *2011-05-01*, community code = *I*, regulation group id = *GGA*, approved flag = *I*.

Transaction 3:

- Message 1: Update the stable base regulation with regulation id = *R0801010*, regulation role type = *I*, start date = *2008-03-01*, end date = *2010-01-01*, community code = *I*, regulation group id = *GGA*, approved flag = *I*.

Transaction 4:

- Message 1: Update the stable base regulation with regulation id = *R0801030*, regulation role type = *I*, start date = *2013-02-01*, end date = *2014-01-01*, community code = *I*, regulation group id = *AGR*, approved flag = *I*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 5:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2013-02-01, end date = 2014-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 6:

- Message 1: Update the stable base regulation with regulation id = R0801030, regulation role type = 1, start date = 2009-01-01, end date = 2014-01-01, community code = 1, regulation group id = AGR, approved flag = 1.

Transaction 7:

- Message 1: Update the stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, end date = 2015-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Expected output:

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

Reply to transaction 1: Reply to transaction 1:

- Message 1, on base.regulation.ref : VR-MGR-35: The validity period of the measures having this regulation as measure-generating regulation and which have agricultural duty expressions in their components must be enclosed by the validity period of the measure-agricultural duty expression rule if their start date is enclosed by its validity period.

Reply to transaction 2:

- Message 1, on base.regulation.ref : VR-MGR-36: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in a "Measures-Agricultural Duty Expression Rule", and their validity period intercepts the validity period in this rule, there may be no overlap in time with other measure occurrences with the same measure type + geographical area + nomenclature item id + additional code type + additional code + order number.

Reply to transaction 3:

- Message 1, on base.regulation.ref : VR-MGR-37: The reduction indicator of the measures having this regulation as measure-generating regulation must be empty, if their measure type and geographical area are listed in neither a "Measures-Agricultural Duty

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Expression Rule", nor an "Agricultural Measures Validation Rule", for which the validity period spans the start date of the measure.

- Message 1, on base.regulation.ref : VR-MGR-39: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in a "Measures-Agricultural Duty Expression Rule", and their validity period intercepts the validity period in this rule, and none of their measure components contains an "Agricultural Duty Expression", their reduction indicator must be empty.

Reply to transaction 4:

- Message 1, on base.regulation.ref : VR-MGR-38: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in an "Agricultural Measures Validation Rule", and their validity period intercepts the validity period in this rule, the value of their reduction indicator must be between (inclusive) 1 and the maximum value of the reduction indicator in this rule.

Reply to transaction 5:

- Message 1, on base.regulation.ref : VR-MGR-40: If a measure having this regulation as measure-generating regulation contains an "agricultural duty expression" with reduction type "Reduced" then the reduction indication must be between (inclusive) 1 and the maximum indicated in the "Agricultural Measures Validation Rule" for which: the validity period covers the start date of the measure; the measure type corresponds to the agricultural measure type defined in the "Agricultural Duty Expression" and linked to the measure's agricultural duty expression; and the geographical area corresponds to the measure's geographical area.

Reply to transaction 6:

- Message 1, on base.regulation.ref : VR-MGR-42: The measures having this regulation as measure-generating regulation must be spanned by an agricultural measure validation rule with the same measure type and geographical area and covering the start date of the measure.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-MGR-35: The

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

validity period of the measures having this regulation as measure-generating regulation and which have agricultural duty expressions in their components must be enclosed by the validity period of the measure-agricultural duty expression rule if their start date is enclosed by its validity period.

- Message 1, on base.regulation.ref : VR-MGR-36: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in a "Measures-Agricultural Duty Expression Rule", and their validity period intercepts the validity period in this rule, there may be no overlap in time with other measure occurrences with the same measure type + geographical area + nomenclature item id + additional code type + additional code + order number.
- Message 1, on base.regulation.ref : VR-MGR-43: The measures having this regulation as measure-generating regulation and having agricultural duty expression in their components must be spanned by the agricultural duty expression.

2.3.14. Test case dm_bas_delete_setup_01.xml: Insertion of delete base regulation reference data.

Message: dm_bas_delete_setup_01.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_bas_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

Transaction 1:

- Message 1: Insert a stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2009-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 2: Insert a stable base regulation with regulation id = R0801020, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

GGA, approved flag = 1.

- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = 2, start date = 2009-01-01, end date = 2009-12-31, community code = 1, regulation group id = *GGA*, approved flag = 1.
- Message 4: Insert a stable base regulation with regulation id = *R0801050*, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.
- Message 5: Insert a stable base regulation with regulation id = *R0801060*, regulation role type = 1, start date = 2009-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.
- Message 6: Insert a stable base regulation with regulation id = *R0801070*, regulation role type = 1, start date = 2009-01-01, end date = 2010-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.
- Message 7: Insert a stable base regulation with regulation id = *C0801010*, regulation role type = 1, start date = 2009-01-01, end date = 2010-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.
- Message 8: Insert a stable modification regulation with regulation id = *R0801020*, regulation role type = 4, start date = 2009-01-01, regulation id = *R0801020*, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable base regulation with regulation id = *R0801040*, regulation role type = 3, start date = 2010-01-01, regulation id = *R0801030*, regulation role type = 2, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 3:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801050*, regulation role type = 7:

regulation id = *R0801050*, regulation role type = 1.

abrogation date = 2010-01-01, approved flag = 1.

Transaction 4:

- Message 1: Insert a stable fts regulation with regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

id = *R0801060*, regulation role type = 8, start date = *2010-01-01*, end date = *2012-01-01*:

- fts regulation action 1: regulation id = *R0801060*, regulation role type = 1.

approved flag = 1.

Transaction 5:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801070*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801070*, regulation role type = 1, extended date = *2011-01-01*.

approved flag = 1.

Transaction 6:

- Message 1: Insert a stable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description = *Dutch Description of TB*.

measure type combination = 0.

Transaction 7:

- Message 1: Insert a stable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = 0:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 2: Insert a stable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *9900000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *1*:
 - description 1: language id = *EN*, description = *English Description of 9900000000*.
 - description 2: language id = *FR*, description = *French Description of 9900000000*.
 - description 3: language id = *NL*, description = *Dutch Description of 9900000000*.
 - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *10*.
statistical indicator = *0*.
- Message 2: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *101*, end date = *2015-01-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *101*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *English Description of 0100000000*.

- description 2: language id = *FR*, description = *French Description of 0100000000*.
- description 3: language id = *NL*, description = *Dutch Description of 0100000000*.

- indent 1: indent sid = *101*, start date = *2008-01-01*, indent number = *1*.

goods nomenclature id = *9900000000*,
productline suffix = *80*, start date = *2008-01-01*,
goods nomenclature sid = *1*.

statistical indicator = *0*.

Transaction 9:

- Message 1: Insert a stable measure type with measure type id = *138*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of 138*.
 - description 2: language id = *FR*, description = *French Description of 138*.
 - description 3: language id = *NL*, description = *Dutch Description of 138*.

measure type series id = *TB*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*, end date = *2015-01-01*.
- associated regulation group 2: regulation group id = *REX*, start date = *2008-01-01*, end date = *2015-01-01*.

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*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 10:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-05-01, measure sid = 100, end date = 2009-06-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801010, regulation role type = 1.

Transaction 11:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 101, end date = 2009-06-01, regulation id = C0801010, regulation role type = 1, regulation id = C0801010, regulation role type = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.
- Message 8, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 7:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.

Reply to transaction 8:

- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.

Reply to transaction 9:

- Message 1, on measure.type.ref : OK.

Reply to transaction 10:

- Message 1, on measure : OK.

Reply to transaction 11:

- Message 1, on measure : OK.

2.3.15. Test case dm_bas_delete_01.xml: Deletion of a base regulation reference data.

Message: dm_bas_delete_01.xml

Precondition: Make sure the *dm_bas_delete_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the base regulation with regulation id = R9999999, regulation role type = 1.

Transaction 2:

- Message 1: Delete the base regulation with regulation id = R0801020, regulation role type = 1.

Transaction 3:

- Message 1: Delete the base regulation with regulation id = R0801030, regulation role type = 2.

Transaction 4:

- Message 1: Delete the base regulation with regulation id = R0801040, regulation role type = 3.

Transaction 5:

- Message 1: Delete the base regulation with regulation id

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

= R0801050, regulation role type = 1.

Transaction 6:

- Message 1: Delete the base regulation with regulation id = R0801060, regulation role type = 1.

Transaction 7:

- Message 1: Delete the base regulation with regulation id = R0801070, regulation role type = 1.

Transaction 8:

- Message 1: Delete the base regulation with regulation id = R0801010, regulation role type = 1.

Transaction 9:

- Message 1: Delete the base regulation with regulation id = C0801010, regulation role type = 1.

Transaction 10:

- Message 1: Request the base regulation with operator = AND, query space field = BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = C0801010, query space field = BASE REGULATION.BASE REGULATION REF.Regulation role type, operator = =, constant = 1.

Transaction 11:

- Message 1: Request the measure with query space field = MEASURE.MEASURE REF.Measure sid, operator = =, constant = 101.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 4:

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 5:

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 6:

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-MGR-4: A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 8:

- Message 1, on base.regulation.ref : VR-MGR-5: A role-regulation cannot be deleted if it is a non-draft regulation generating measures or if it is used as a justification

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation, except for draft regulations used only in measures as both measure-generating regulation and justification regulation.

Reply to transaction 9:

- Message 1, on regulation.id : OK.

Reply to transaction 10:

- Message 1 : OK.

Reply to transaction 11:

- Message 1 : OK.

2.4. Modification regulation

2.4.1. Test case dm_mod_setup_01.xml: Insertion of modification regulation reference data.

Message: dm_mod_setup_01.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 regulation role type with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation role type id = 1, start date = 2000-01-01:

- description 1: language id = EN, description = *Base regulation.*
- description 2: language id = FR, description = *Règlement de base.*
- description 3: language id = NL, description = *Basisverordening.*

- Message 2: Insert a stable regulation role type with regulation role type id = 2, start date = 2000-01-01:

- description 1: language id = EN, description = *Provisional anti-dumping/countervailing duty.*
- description 2: language id = FR, description = *Droit anti-dumping/compensateur provisoire.*
- description 3: language id = NL, description = *Voorlopig antidumping-/compenserend recht.*

- Message 3: Insert a stable regulation role type with regulation role type id = 3, start date = 2000-01-01:

- description 1: language id = EN, description = *Definitive anti-dumping/countervailing duty.*
- description 2: language id = FR, description = *Droit anti-dumping/compensateur définitif.*
- description 3: language id = NL, description = *Definitief antidumping/compenserend recht.*

- Message 4: Insert a stable regulation role type with regulation role type id = 4, start date = 2000-01-01:

- description 1: language id = EN, description = *Modification.*
- description 2: language id = FR, description = *Modification.*
- description 3: language id = NL, description = *Wijziging.*

- Message 5: Insert a stable regulation role type with regulation role type id = 5, start date = 2000-01-01:

- description 1: language id = EN, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Prorogation.

- description 2: language id = *FR*, description = *Prorogation.*
- description 3: language id = *NL*, description = *Verlenging.*
- Message 6: Insert a stable regulation role type with regulation role type id = 6, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Complete abrogation.*
 - description 2: language id = *FR*, description = *Abrogation compl te.*
 - description 3: language id = *NL*, description = *Volledige afschaffing.*
- Message 7: Insert a stable regulation role type with regulation role type id = 7, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Explicit abrogation.*
 - description 2: language id = *FR*, description = *Abrogation explicite.*
 - description 3: language id = *NL*, description = *Expliciete afchaffing.*
- Message 8: Insert a stable regulation role type with regulation role type id = 8, start date = 2000-01-01:
 - description 1: language id = *EN*, description = *Regulation which temporarily suspends all another regulation (FTS - Full Temporary Stop).*
 - description 2: language id = *FR*, description = *R glement qui suspend temporairement tout un autre r glement (FTS - Full Temporary Stop).*
 - description 3: language id = *NL*, description = *Verordening die tijdelijk de toepassing van een andere verordening opschort (FTS - Full Temporary Stop).*

Transaction 3:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801000*, published date = 2000-01-01,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

official journal number = *OL101*, official journal page = *123*.

Transaction 4:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2000-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 2: Insert a stable legal regulation with regulation id = *R0801020*, published date = *2000-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 3: Insert a stable legal regulation with regulation id = *R0801030*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 4: Insert a stable legal regulation with regulation id = *R0801040*, published date = *2000-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 5: Insert a stable legal regulation with regulation id = *R0801050*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 6: Insert a stable legal regulation with regulation id = *R0801060*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 7: Insert a stable legal regulation with regulation id = *R0801070*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 8: Insert a stable legal regulation with regulation id = *R0801080*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 9: Insert a stable legal regulation with regulation id = *R0801090*, published date = *2001-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 10: Insert a stable legal regulation with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *C0801010*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.

- Message 11: Insert a stable legal regulation with regulation id = *C0801020*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.
- Message 12: Insert a stable legal regulation with regulation id = *C0801030*, published date = *1999-01-01*, official journal number = *OL101*, official journal page = *123*.

Transaction 5:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, 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*.
- Message 2: Insert an unstable regulation group with regulation group id = *GGB*, start date = *2009-01-01*, end date = *2009-12-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
- Message 3: Insert an unstable regulation group with regulation group id = *GGC*, 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 =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch description.

- Message 4: Insert a stable regulation group with regulation group id = *GAA*, 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.*
- Message 5: Insert a stable regulation group with regulation group id = *REX*, 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.*
- Message 6: Insert a stable regulation group with regulation group id = *AGR*, 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 base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2006-01-01*, end date = *2020-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 2: Insert an unstable base regulation with regulation id = *R0801020*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.
- Message 3: Insert a stable base regulation with regulation id = *R0801030*, regulation role type = *1*, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2007-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

- Message 4: Insert a stable base regulation with regulation id = R0801070, regulation role type = 1, start date = 2007-01-01, community code = 1, regulation group id = AGR, approved flag = 1.
- Message 5: Insert a stable base regulation with regulation id = R0801080, regulation role type = 1, start date = 2007-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 6: Insert a stable base regulation with regulation id = R0801090, regulation role type = 1, start date = 2007-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 7: Insert a stable base regulation with regulation id = C0801010, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 7:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = R0801080, regulation role type = 7:
regulation id = R0801080, regulation role type = 1.
abrogation date = 2010-01-01, approved flag = 1.

Transaction 8:

- Message 1: Insert a stable complete abrogation regulation with regulation id = R0801090, regulation role type = 6:
regulation id = R0801090, regulation role type = 1.
approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on language.ref : OK.
- Message 2, on language.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 3, on language.ref : OK.

Reply to transaction 2:

- Message 1, on regulation.role.type.ref : OK.
- Message 2, on regulation.role.type.ref : OK.
- Message 3, on regulation.role.type.ref : OK.
- Message 4, on regulation.role.type.ref : OK.
- Message 5, on regulation.role.type.ref : OK.
- Message 6, on regulation.role.type.ref : OK.
- Message 7, on regulation.role.type.ref : OK.
- Message 8, on regulation.role.type.ref : OK.

Reply to transaction 3:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on legal.regulation.ref : OK.
- Message 2, on legal.regulation.ref : OK.
- Message 3, on legal.regulation.ref : OK.
- Message 4, on legal.regulation.ref : OK.
- Message 5, on legal.regulation.ref : OK.
- Message 6, on legal.regulation.ref : OK.
- Message 7, on legal.regulation.ref : OK.
- Message 8, on legal.regulation.ref : OK.
- Message 9, on legal.regulation.ref : OK.
- Message 10, on legal.regulation.ref : OK.
- Message 11, on legal.regulation.ref : OK.
- Message 12, on legal.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on regulation.group.ref : OK.
- Message 2, on regulation.group.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 3, on regulation.group.ref : OK.
- Message 4, on regulation.group.ref : OK.
- Message 5, on regulation.group.ref : OK.
- Message 6, on regulation.group.ref : OK.

Reply to transaction 6:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.

Reply to transaction 7:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on abrogation.regulation.ref : OK.

2.4.2. Test case dm_mod_insert_01.xml: Insertion of an unstable modification regulation.

Message: **dm_mod_insert_01.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-12-01, end date = 2010-12-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 2:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 3:

- Message 1: Insert an unstable modification regulation with regulation id = *R0801020*, regulation role type = *4*, start date = *2009-12-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 4:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801020*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 5:

- Message 1: Insert an unstable modification regulation with regulation id = *R0801020*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 6:

- Message 1: Insert an unstable modification regulation with regulation id = *AR0801010*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 7:

- Message 1: Insert an unstable modification regulation with regulation id = *R0801020*, regulation role type = *4*, start date = *2009-12-01*, end date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 8:

- Message 1: Insert an unstable modification regulation with regulation id = *R0801010*, regulation role type = *4*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = R0801010, regulation role type = 1,
approved flag = 1.

Transaction 9:

- Message 1: Insert an unstable modification regulation with regulation id = R0800990, regulation role type = 4, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 10:

- Message 1: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 0.

Transaction 11:

- Message 1: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-12-01, regulation id = R0801080, regulation role type = 7, approved flag = 1.

Transaction 12:

- Message 1: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-12-01, regulation id = R9999999, regulation role type = 1, approved flag = 1.

Transaction 13:

- Message 1: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-12-01, regulation id = R0801090, regulation role type = 1, approved flag = 1.

Transaction 14:

- Message 1: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-12-01, regulation id = C0801010, regulation role type = 1, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on modification.regulation : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on modification.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 9:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 10:

- Message 1, on approved.flag : VR-ROL-3: Any non-draft regulation must be approved.

Reply to transaction 11:

- Message 1, on regulation.role.type : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 12:

- Message 1, on base.regulation.ref : VR-MOD-1: The base regulation reference must refer to an existing base regulation.

Reply to transaction 13:

- Message 1, on base.regulation.ref : VR-MOD-4: A modification regulation cannot modify a base regulation, which has already been completely abrogated.

Reply to transaction 14:

- Message 1, on regulation.id : VR-MOD-8: A modification regulation can only modify a non-draft base

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation.

2.4.3. Test case dm_mod_insert_02.xml: Insertion of a stable modification regulation.

Message: dm_mod_insert_02.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801030, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.

Transaction 3:

- Message 1: Insert a stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 4:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801040, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.

Transaction 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Insert a stable modification regulation with regulation id = *R0801000*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 6:

- Message 1: Insert a stable modification regulation with regulation id = *R0801050*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 7:

- Message 1: Insert a stable modification regulation with regulation id = *AR0801040*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 8:

- Message 1: Insert a stable modification regulation with regulation id = *R0801050*, regulation role type = *4*, start date = *2009-03-01*, end date = *2009-02-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 9:

- Message 1: Insert a stable modification regulation with regulation id = *R0801030*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 10:

- Message 1: Insert a stable modification regulation with regulation id = *R0800990*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 11:

- Message 1: Insert a stable modification regulation with regulation id = *R0801050*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *0*.

Transaction 12:

- Message 1: Insert a stable modification regulation with regulation id = *R0801050*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801080*, regulation role type = *7*, approved flag = *0*.

Transaction 13:

- Message 1: Insert a stable modification regulation with

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, regulation id = R9999999, regulation role type = 1, approved flag = 1.

Transaction 14:

- Message 1: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 1990-12-10, end date = 2009-01-10, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 15:

- Message 1: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-12-01, regulation id = R0801090, regulation role type = 1, approved flag = 1.

Transaction 16:

- Message 1: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, regulation id = R0801020, regulation role type = 1, approved flag = 1.

Transaction 17:

- Message 1: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, regulation id = C0801010, regulation role type = 1, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

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

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 7:

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

Reply to transaction 8:

- 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 9:

- Message 1, on modification.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 10:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 11:

- Message 1, on approved.flag : VR-ROL-3: Any non-draft regulation must be approved.

Reply to transaction 12:

- Message 1, on regulation.role.type : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 13:

- Message 1, on base.regulation.ref : VR-MOD-1: The base regulation reference must refer to an existing base regulation.

Reply to transaction 14:

- Message 1, on base.regulation.ref : VR-MOD-3: The validity period of the related base regulation must always span the validity period of the modification regulation, whatever changes the base regulation or the modification regulation validity period might undergo.

Reply to transaction 15:

- Message 1, on base.regulation.ref : VR-MOD-4: A modification regulation cannot modify a base regulation, which has already been completely abrogated.

Reply to transaction 16:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-MOD-7: The base regulation must be stable when the modification regulation is stable.

Reply to transaction 17:

- Message 1, on regulation.id : VR-MOD-8: A modification regulation can only modify a non-draft base regulation.

2.4.4. Test case dm_mod_update_setup_01.xml: Insertion of update modification regulation reference data.

Message: dm_mod_update_setup_01.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable modification regulation with regulation id = R0801010, regulation role type = 4, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 2: Insert an unstable modification regulation with regulation id = R0801020, regulation role type = 4, start date = 2009-01-01, regulation id = R0801020, regulation role type = 1, approved flag = 1.
- Message 3: Insert an unstable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 4: Insert an unstable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 5: Insert an unstable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *R0801010*, regulation role type = *1*,
approved flag = *1*.

- Message 6: Insert an unstable modification regulation with regulation id = *R0801080*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801080*, regulation role type = *1*, approved flag = *1*.
- Message 7: Insert an unstable modification regulation with regulation id = *C0801010*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.
- Message 8: Insert an unstable modification regulation with regulation id = *C0801020*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.
- Message 9: Insert an unstable modification regulation with regulation id = *C0801030*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Insert an unstable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.
- Message 2: Insert an unstable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SG*.
 - description 2: language id = *FR*, description = *French Description of SG*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Transaction 3:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *101*:
 - description period 1: start date = *2008-01-01*, description period sid = *101*:
 - description 1: language id = *EN*,
description = *English Description of 0100000000*.
 - description 2: language id = *FR*,
description = *French Description of 0100000000*.
 - description 3: language id = *NL*,
description = *Dutch Description of 0100000000*.
 - indent 1: indent sid = *101*, start date = *2008-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 4:

- Message 1: Insert an unstable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description = *Dutch Description of TB*.

measure type combination = *0*.

Transaction 5:

- Message 1: Insert an unstable measure type with measure type id = *138*, start date = *2008-01-01*, end date = *2015-*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

01-01:

- description 1: language id = *EN*, description = *English Description of 138*.
- description 2: language id = *FR*, description = *French Description of 138*.
- description 3: language id = *NL*, description = *Dutch Description of 138*.

measure type series id = *TB*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*, end date = *2015-01-01*.
- associated regulation group 2: regulation group id = *REX*, start date = *2008-01-01*, end date = *2015-01-01*.

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*.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = *138*, geographical area id = *SF*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2010-01-01*, measure sid = *10*, end date = *2011-01-01*, regulation id = *C0801020*, regulation role type = *4*, regulation id = *C0801030*, regulation role type = *4*.
- Message 2: Insert an unstable measure with measure type id = *138*, geographical area id = *SG*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *20*, regulation id = *R0801040*, regulation role type = *4*.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.
- Message 2, on modification.regulation.ref : OK.
- Message 3, on modification.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 4, on modification.regulation.ref : OK.
- Message 5, on modification.regulation.ref : OK.
- Message 6, on modification.regulation.ref : OK.
- Message 7, on modification.regulation.ref : OK.
- Message 8, on modification.regulation.ref : OK.
- Message 9, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.

Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : OK.

Reply to transaction 4:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 5:

- Message 1, on measure.type.ref : OK.

Reply to transaction 6:

- Message 1, on measure : OK.
- Message 2, on measure : OK.

2.4.5. Test case dm_mod_update_setup_02.xml: Insertion of update modification regulation reference data.

Message: dm_mod_update_setup_02.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 2: Insert a stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 3: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 4: Insert a stable modification regulation with regulation id = R0801060, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 5: Insert a stable modification regulation with regulation id = R0801070, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 6: Insert a stable modification regulation with regulation id = R0801080, regulation role type = 4, start date = 2009-01-01, regulation id = R0801070, regulation role type = 1, approved flag = 1.
- Message 7: Insert a stable modification regulation with regulation id = R0801090, regulation role type = 4, start date = 2009-01-01, regulation id = R0801080, regulation role type = 1, approved flag = 1.
- Message 8: Insert a stable modification regulation with regulation id = C0801010, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 9: Insert a stable modification regulation with regulation id = C0801020, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 10: Insert a stable modification regulation with regulation id = C0801030, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable complete abrogation regulation with regulation id = R0801070, regulation role type = 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *R0801070*, regulation role type = *1*, regulation id = *R0801070*, regulation role type = *4*.

approved flag = *1*.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = *R0801060*, regulation role type = *8*, start date = *2010-01-01*, end date = *2012-01-01*:
 - fts regulation action 1: regulation id = *R0801060*, regulation role type = *4*.

approved flag = *1*.

Transaction 4:

- Message 1: Insert a stable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2020-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.
- Message 2: Insert a stable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2020-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SG*.
 - description 2: language id = *FR*, description = *French Description of SG*.
 - description 3: language id = *NL*, description = *Dutch Description of SG*.
- Message 3: Insert a stable country with country id = *SH*, start date = *2008-01-01*, country sid = *105*, end date = *2020-01-01*, area code = *0*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 101:
 - description period 1: start date = 2008-01-01, description period sid = 101:
 - description 1: language id = *EN*, description = *English Description of 0100000000*.
 - description 2: language id = *FR*, description = *French Description of 0100000000*.
 - description 3: language id = *NL*, description = *Dutch Description of 0100000000*.
 - indent 1: indent sid = 101, start date = 2008-01-01, indent number = 1.
statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable measure type series with measure type series id = TB, start date = 2008-01-01, end date = 2020-01-01:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description of TB.

measure type combination = 0.

Transaction 7:

- Message 1: Insert a stable measure type with measure type id = 138, start date = 2008-01-01, end date = 2020-01-01:
 - description 1: language id = EN, description = *English Description of 138.*
 - description 2: language id = FR, description = *French Description of 138.*
 - description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2020-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2020-01-01.

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.

Transaction 8:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 010000000, productline suffix = 80, start date = 2010-01-01, measure sid = 10, end date = 2011-01-01, regulation id = C0801020, regulation role type = 4, regulation id = C0801030, regulation role type = 4.
- Message 2: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 010000000, productline suffix = 80, start date = 2009-01-01, measure sid = 20, regulation id = R0801040, regulation role type = 4.
- Message 3: Insert a stable measure with measure type id = 138, geographical area id = SH, goods nomenclature id = 010000000, productline suffix = 80, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2011-01-01, measure sid = 30, regulation id = R0801050,
regulation role type = 4.

**Expected
output:**

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.
- Message 2, on modification.regulation.ref : OK.
- Message 3, on modification.regulation.ref : OK.
- Message 4, on modification.regulation.ref : OK.
- Message 5, on modification.regulation.ref : OK.
- Message 6, on modification.regulation.ref : OK.
- Message 7, on modification.regulation.ref : OK.
- Message 8, on modification.regulation.ref : OK.
- Message 9, on modification.regulation.ref : OK.
- Message 10, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.
- Message 3, on country.ref : OK.

Reply to transaction 5:

- Message 1, on goods.nomenclature.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.

Reply to transaction 8:

- Message 1, on measure : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 2, on measure : OK.
- Message 3, on measure : OK.

2.4.6. Test case **dm_mod_update_setup_03.xml**: Insertion of update modification regulation reference data.

Message: **dm_mod_update_setup_03.xml**

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 2: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 3: Insert a stable modification regulation with regulation id = R0801020, regulation role type = 4, start date = 2008-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 4: Insert a stable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 5: Insert a stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 6: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 7: Insert a stable modification regulation with regulation id = R0801060, regulation role type = 4, start date = 2009-01-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 8: Insert a stable modification regulation with regulation id = *R0801070*, regulation role type = *4*, start date = *2009-01-01*, end date = *2015-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.
- Message 9: Insert a stable modification regulation with regulation id = *R0801080*, regulation role type = *4*, start date = *2009-01-01*, end date = *2015-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Insert a stable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description = *Dutch Description of TB*.

measure type combination = *0*.

Transaction 3:

- Message 1: Insert a stable country with country id = *SJ*, start date = *2008-01-01*, country sid = *101*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SV*.
 - description 2: language id = *FR*, description = *French Description of SV*.
 - description 3: language id = *NL*, description = *Dutch Description of SV*.
- Message 2: Insert a stable country with country id = *SV*, start date = *2008-01-01*, country sid = *102*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description = *English Description of SV*.
 - description 2: language id = *FR*,
description = *French Description of SV*.
 - description 3: language id = *NL*,
description = *Dutch Description of SV*.
- Message 3: Insert a stable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
- Message 4: Insert a stable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,
description = *Dutch Description of SF*.
- Message 5: Insert a stable country with country id = *SH*, start date = *2008-01-01*, country sid = *105*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English Description of SF*.
 - description 2: language id = *FR*,
description = *French Description of SF*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *Dutch Description of SF*.

Transaction 4:

- Message 1: Insert a stable country group with country group id = 1000, start date = 2008-01-01, country group sid = 107, end date = 2015-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English description country group*.
 - description 2: language id = FR, description = *French description country group*.
 - description 3: language id = NL, description = *Dutch description country group*.
 - country member 1: country id = SJ, start date = 2008-01-01, country sid = 101, start date = 2008-01-01, end date = 2009-01-01.
 - country member 2: country id = SH, start date = 2008-01-01, country sid = 105, start date = 2011-01-01, end date = 2012-01-01.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 9900000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1:
 - description period 1: start date = 2008-01-01, description period sid = 1:
 - description 1: language id = EN, description = *English Description of 9900000000*.
 - description 2: language id = FR, description = *French Description of 9900000000*.
 - description 3: language id = NL, description = *Dutch Description of 9900000000*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- indent 1: indent sid = 1, start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 101, end date = 2015-01-01:

- description period 1: start date = 2008-01-01, description period sid = 101:

- description 1: language id = EN, description = *English Description of 0100000000.*
- description 2: language id = FR, description = *French Description of 0100000000.*
- description 3: language id = NL, description = *Dutch Description of 0100000000.*

- indent 1: indent sid = 101, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 9900000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1.

statistical indicator = 0.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 102, end date = 2015-01-01:

- description period 1: start date = 2008-01-01, description period sid = 102:

- description 1: language id = EN, description = *English Description of 0200000000.*
- description 2: language id = FR,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *French Description of 0200000000*.

- description 3: language id = *NL*, description = *Dutch Description of 0200000000*.

- indent 1: indent sid = *102*, start date = *2008-01-01*, indent number = *10*.

goods nomenclature id = *9900000000*,
productline suffix = *80*, start date = *2008-01-01*,
goods nomenclature sid = *1*.

statistical indicator = *0*.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = *72*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English description of 72*.
 - description 2: language id = *FR*, description = *French description of 72*.
 - description 3: language id = *NL*, description = *Dutch Description of 72*.

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

Transaction 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *LOL*, start date = *2008-01-01*, end date = *2015-01-01*:
 - 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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Dutch Description.

Transaction 8:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = Z, start date = 2008-01-01, end date = 2015-01-01:
 - 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 9:

- Message 1: Insert a stable measurement unit with measurement unit code = VTT, start date = 2008-01-01, end date = 2015-01-01:
 - 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.*

measurement unit qualifier code = Z, start date = 2008-01-01, end date = 2015-01-01.

qualifier required = 0.

Transaction 10:

- Message 1: Insert a stable certificate type with certificate type code = C, start date = 2008-01-01, end date = 2015-01-01:
 - 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 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 11:

- Message 1: Insert a stable certificate with certificate type code = *C*, certificate code = *CER*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description for certificate CER.*
 - description 2: language id = *FR*, description = *French Description for certificate CER.*
 - description 3: language id = *NL*, description = *Dutch Description for certificate CER.*

Transaction 12:

- Message 1: Insert a stable measure condition code with condition code = *CC*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of CC.*
 - description 2: language id = *FR*, description = *French Description of CC.*
 - description 3: language id = *NL*, description = *Dutch Description of CC.*

Transaction 13:

- Message 1: Insert a stable measure action code with action code = *101*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of 101.*
 - description 2: language id = *FR*, description = *French Description of 101.*
 - description 3: language id = *NL*, description = *Dutch Description of 101.*

Transaction 14:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

date = 2015-01-01:

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

application code = 1.

Transaction 15:

- Message 1: Insert a stable additional code with additional code type id = *Z*, additional code id = *111*, start date = *2008-01-01*, additional code sid = *115*, end date = *2015-01-01*:
 - 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 16:

- Message 1: Insert a stable measure type with measure type id = *138*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of 138*.
 - description 2: language id = *FR*, description = *French Description of 138*.
 - description 3: language id = *NL*, description = *Dutch Description of 138*.

measure type series id = *TB*:

 - associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*, end date = *2015-01-01*.
 - associated regulation group 2: regulation group

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

id = *REX*, start date = *2008-01-01*, end date = *2015-01-01*.

- associated additional code type 1: additional code type id = *Z*, start date = *2008-01-01*, end date = *2015-01-01*.

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 17:

- Message 1: Insert a stable footnote type with footnote type id = *ACD*, 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 = *7*.

Transaction 18:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = *01000*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *117*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 19:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SF*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-05-01*, measure sid = *116*, end date = *2009-06-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = *R0801010*, regulation role type = *4*,
regulation id = *R0801030*, regulation role type = *4*.

Transaction 20:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SV*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *117*, end date = *2008-06-01*, regulation id = *R0801020*, regulation role type = *4*, regulation id = *R0801020*, regulation role type = *4*.

Transaction 21:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SV*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *118*, regulation id = *R0801030*, regulation role type = *4*.

Transaction 22:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SG*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *Z*, additional code id = *111*, start date = *2008-01-01*, additional code sid = *115*, start date = *2009-01-01*, measure sid = *119*, regulation id = *R0801040*, regulation role type = *4*:
 - measure component 1: duty expression id = *72*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary unit code = *LOL*, duty amount = *10.000*.
 - associated footnote 1: footnote type id = *ACD*, footnote id = *01000*.

Transaction 23:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SG*, goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *120*, regulation id = *R0801050*, regulation role type = *4*:
 - measure condition 1: condition code = *CC*, sequence number = *001*, measure condition code sid = *120*, certificate type code = *C*, certificate code = *CER*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

unit code = *LOL*, action code = *101*:

- measure component 1: duty expression id = *72*, measurement unit code = *VTT*, measurement unit qualifier code = *Z*, monetary unit code = *LOL*, duty amount = *10.000*.
- associated footnote 1: footnote type id = *ACD*, footnote id = *01000*.

Transaction 24:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SF*, goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *122*, regulation id = *R0801070*, regulation role type = *4*.

Transaction 25:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *SH*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *123*, regulation id = *R0801080*, regulation role type = *4*:
 - measure pts 1: start date = *2009-01-01*, regulation id = *R0801010*, end date = *2009-10-01*, official journal number = *01*, official journal page = *111*, abrogation regulation id = *R0801010*, abrogation official journal number = *01*, abrogation official journal page = *111*.

Transaction 26:

- Message 1: Insert a stable measure with measure type id = *138*, geographical area id = *1000*, goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*, measure sid = *124*, regulation id = *R0801080*, regulation role type = *4*:
 - excluded area 1: geographical area id = *SJ*, start date = *2008-01-01*, geographical area sid = *101*.
 - excluded area 2: geographical area id = *SH*, start date = *2008-01-01*, geographical area sid = *105*.
 - measure pts 1: start date = *2009-01-01*, regulation id = *R0801010*, end date = *2009-10-*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

01, official journal number = 01, official journal page = 111, abrogation regulation id = R0801010, abrogation official journal number = 01, abrogation official journal page = 111.

Expected output:

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

Reply to transaction 1:

- Message 2, on modification.regulation.ref : OK.
- Message 3, on modification.regulation.ref : OK.
- Message 4, on modification.regulation.ref : OK.
- Message 5, on modification.regulation.ref : OK.
- Message 6, on modification.regulation.ref : OK.
- Message 7, on modification.regulation.ref : OK.
- Message 8, on modification.regulation.ref : OK.
- Message 9, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 3:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.
- Message 3, on country.ref : OK.
- Message 4, on country.ref : OK.
- Message 5, on country.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on goods.nomenclature.ref : OK.
- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.

Reply to transaction 6:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on duty.expression.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 9:

- Message 1, on measurement.unit.ref : OK.

Reply to transaction 10:

- Message 1, on certificate.type.ref : OK.

Reply to transaction 11:

- Message 1, on certificate.ref : OK.

Reply to transaction 12:

- Message 1, on measure.condition.code.ref : OK.

Reply to transaction 13:

- Message 1, on measure.action.code.ref : OK.

Reply to transaction 14:

- Message 1, on additional.code.type.ref : OK.

Reply to transaction 15:

- Message 1, on additional.code.ref : OK.

Reply to transaction 16:

- Message 1, on measure.type.ref : OK.

Reply to transaction 17:

- Message 1, on footnote.type.ref : OK.

Reply to transaction 18:

- Message 1, on footnote.ref : OK.

Reply to transaction 19:

- Message 1, on measure : OK.

Reply to transaction 20:

- Message 1, on measure : OK.

Reply to transaction 21:

- Message 1, on measure : OK.

Reply to transaction 22:

- Message 1, on measure : OK.

Reply to transaction 23:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on measure : OK.

Reply to transaction 24:

- Message 1, on measure : OK.

Reply to transaction 25:

- Message 1, on measure : OK.

Reply to transaction 26:

- Message 1, on measure : OK.

2.4.7. Test case dm_mod_update_setup_04.xml: Insertion of update modification regulation reference data.

Message: dm_mod_update_setup_04.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801030, regulation role type = 1, approved flag = 1.
- Message 2: Insert a stable modification regulation with regulation id = R0801020, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801030, regulation role type = 1, approved flag = 1.
- Message 3: Insert a stable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801070, regulation role type = 1, approved flag = 1.
- Message 4: Insert a stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801070, regulation role type = 1, approved flag = 1.
- Message 5: Insert a stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

= R0801070, regulation role type = 1, approved flag = 1.

- Message 6: Insert a stable modification regulation with regulation id = R0801060, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801070, regulation role type = 1, approved flag = 1.
- Message 7: Insert a stable modification regulation with regulation id = R0801070, regulation role type = 4, start date = 2009-01-01, end date = 2012-01-01, regulation id = R0801030, regulation role type = 1, approved flag = 1.
- Message 8: Insert a stable modification regulation with regulation id = R0801080, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801030, regulation role type = 1, approved flag = 1.
- Message 9: Insert a stable modification regulation with regulation id = R0801090, regulation role type = 4, start date = 2009-01-01, end date = 2012-01-01, regulation id = R0801030, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable measure type series with measure type series id = TB, start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of TB.*
 - description 2: language id = FR, description = *French Description of TB.*
 - description 3: language id = NL, description = *Dutch Description of TB.*

measure type combination = 0.

Transaction 3:

- Message 1: Insert a stable country with country id = SG, start date = 2001-01-01, country sid = 104, area code = 0:
 - description period 1: start date = 2001-01-01:
 - description 1: language id = EN, description = *English Description of SG.*
 - description 2: language id = FR, description = *French Description of SG.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

Transaction 4:

- Message 1: Insert a stable country group with country group id = *1011*, start date = *2001-01-01*, country group sid = *107*, area code = *1*:
 - description period 1: start date = *2001-01-01*:
 - description 1: language id = *EN*,
description = *English description country group*.
 - description 2: language id = *FR*,
description = *French description country group*.
 - description 3: language id = *NL*,
description = *Dutch description country group*.
 - country member 1: country id = *SG*, start date = *2001-01-01*, country sid = *104*, start date = *2001-01-01*.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2001-01-01*, goods nomenclature sid = *101*:
 - description period 1: start date = *2001-01-01*, description period sid = *101*:
 - description 1: language id = *EN*,
description = *English Description of 0100000000*.
 - description 2: language id = *FR*,
description = *French Description of 0100000000*.
 - description 3: language id = *NL*,
description = *Dutch Description of 0100000000*.
 - indent 1: indent sid = *101*, start date = *2001-01-*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

01, indent number = 1.

statistical indicator = 0.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2001-01-01, goods nomenclature sid = 102:
 - description period 1: start date = 2001-01-01, description period sid = 102:
 - description 1: language id = EN, description = *English Description of 0200000000.*
 - description 2: language id = FR, description = *French Description of 0200000000.*
 - description 3: language id = NL, description = *Dutch Description of 0200000000.*
 - indent 1: indent sid = 102, start date = 2001-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable duty expression with duty expression id = 01, start date = 2001-01-01:
 - description 1: language id = EN, description = *English description of 01.*
 - description 2: language id = FR, description = *French description of 01.*
 - description 3: language id = NL, description = *Dutch Description of 01.*

duty amount applicability code = 1, measurement unit applicability code = 0, monetary unit applicability code = 0.
- Message 2: Insert a stable duty expression with duty expression id = 14, start date = 2001-01-01:
 - description 1: language id = EN, description = *English description of 14.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 2: language id = *FR*, description = *French description of 14.*

- description 3: language id = *NL*, description = *Dutch Description of 14.*

duty amount applicability code = 2, measurement unit applicability code = 0, monetary unit applicability code = 0.

- Message 3: Insert a stable duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = *EN*, description = *English description of 21.*

- description 2: language id = *FR*, description = *French description of 21.*

- description 3: language id = *NL*, description = *Dutch Description of 21.*

duty amount applicability code = 2, measurement unit applicability code = 0, monetary unit applicability code = 0.

Transaction 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *LOL*, start date = 2008-01-01, end date = 2015-01-01:

- 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 a stable measurement unit qualifier with measurement unit qualifier code = *Z*, start date = 2008-01-01, end date = 2015-01-01:

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

- description 2: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

French Description of Z.

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

Transaction 9:

- Message 1: Insert a stable measurement unit with measurement unit code = *VTT*, start date = *2008-01-01*, end date = *2015-01-01*:

- 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.*

measurement unit qualifier code = *Z*, start date = *2008-01-01*, end date = *2015-01-01*.

qualifier required = *0*.

Transaction 10:

- Message 1: Insert a stable additional code type with additional code type id = *7*, start date = *2008-01-01*, end date = *2015-01-01*:

- 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 2: Insert a stable additional code type with additional code type id = *9*, start date = *2008-01-01*, end date = *2015-01-01*:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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

application code = *0*.

Transaction 11:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *01*, start date = *2008-01-01*:
 - heading 1: meursing heading number = *010*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - subheading 1: sequence number = *0010*, start date = *2008-01-01*, description = *subheading*.
 - heading 2: meursing heading number = *010*, row column code = *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*.
 - subheading 1: sequence number = *0010*, start date = *2008-01-01*, description = *subheading*.
 - heading 3: meursing heading number = *020*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - subheading 1: sequence number = *0010*, start date = *2008-01-01*, description = *subheading*.
 - heading 4: meursing heading number = *020*, row column code = *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*.
 - subheading 1: sequence number = *0010*, start date = *2008-01-01*, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = *111*, start date = *2008-01-01*, end date = *2015-01-01*:
 - meursing table cell component 1: meursing table plan id = *01*, meursing heading number = *010*, row column code = *0*, sequence number = *0010*, start date = *2008-01-01*, end date = *2015-01-01*.
 - meursing table cell component 2: meursing table plan id = *01*, meursing heading number = *010*, row column code = *1*, sequence number = *0010*, start date = *2008-01-01*, end date = *2015-01-01*.
 - meursing table cell component 3: meursing table plan id = *01*, meursing heading number = *020*, row column code = *0*, sequence number = *0010*, start date = *2008-01-01*, end date = *2015-01-01*.
 - meursing table cell component 4: meursing table plan id = *01*, meursing heading number = *020*, row column code = *1*, sequence number = *0010*, start date = *2008-01-01*, end date = *2015-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 12:

- Message 1: Insert a stable measure type with measure type id = 138, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = EN, description = *English Description of 138.*
- description 2: language id = FR, description = *French Description of 138.*
- description 3: language id = NL, description = *Dutch Description of 138.*

measure type series id = TB:

- associated regulation group 1: regulation group id = GGA, start date = 2008-01-01, end date = 2015-01-01.
- associated regulation group 2: regulation group id = REX, start date = 2008-01-01, end date = 2015-01-01.

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 2: Insert a stable measure type with measure type id = 672, start date = 2008-01-01, end date = 2015-01-01:

- description 1: language id = EN, description = *English Description of 672.*
- description 2: language id = FR, description = *French Description of 672.*
- description 3: language id = NL, description = *Dutch Description of 672.*

measure type series id = TB:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = 7, start date = 2008-01-01, end date = 2015-01-01.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

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 3: Insert a stable measure type with measure type id = 674, start date = 2008-01-01, end date = 2015-01-01:
 - description 1: language id = EN, description = *English Description of 674.*
 - description 2: language id = FR, description = *French Description of 674.*
 - description 3: language id = NL, description = *Dutch Description of 674.*

measure type series id = TB:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01, end date = 2015-01-01.
- associated additional code type 1: additional code type id = 7, start date = 2008-01-01, end date = 2015-01-01.

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.

Transaction 13:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 14, start date = 2009-01-01, end date = 2015-01-01, measure type id = 674, reduction type = R.
- Message 2: Insert a stable agricultural duty expression with duty expression id = 21, start date = 2008-01-01, end date = 2015-01-01, measure type id = 672, reduction type = N.

Transaction 14:

- Message 1: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = SG, start date = 2008-05-01, measure agricultural duty expression rule sid = 211, end date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2012-05-01.

- Message 2: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = 1011, start date = 2008-05-01, measure agricultural duty expression rule sid = 212, end date = 2012-05-01.
- Message 3: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = SG, start date = 2013-01-01, measure agricultural duty expression rule sid = 213, end date = 2014-01-01.
- Message 4: Insert a stable measure agricultural duty expression rule with measure type id = 138, geographical area id = 1011, start date = 2013-01-01, measure agricultural duty expression rule sid = 214, end date = 2014-01-01.

Transaction 15:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = SG, start date = 2008-05-01, agricultural measure validation rule sid = 220, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 2: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = 1011, start date = 2008-05-01, agricultural measure validation rule sid = 221, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 3: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = SG, start date = 2008-05-01, agricultural measure validation rule sid = 223, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 4: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = 1011, start date = 2008-05-01, agricultural measure validation rule sid = 224, maximum value reduction indicator = 2, end date = 2012-05-01.
- Message 5: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = SG, start date = 2013-01-01, agricultural measure validation rule sid = 225, maximum value reduction

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

indicator = 1, end date = 2015-01-01.

- Message 6: Insert a stable agricultural measure validation rule with measure type id = 672, geographical area id = 1011, start date = 2013-01-01, agricultural measure validation rule sid = 226, maximum value reduction indicator = 1, end date = 2015-01-01.
- Message 7: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = SG, start date = 2013-01-01, agricultural measure validation rule sid = 227, maximum value reduction indicator = 1, end date = 2015-01-01.
- Message 8: Insert a stable agricultural measure validation rule with measure type id = 674, geographical area id = 1011, start date = 2013-01-01, agricultural measure validation rule sid = 228, maximum value reduction indicator = 1, end date = 2015-01-01.

Transaction 16:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, reduction indicator = 2, start date = 2009-01-01, measure sid = 100, regulation id = R0801010, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.
 - measure component 2: duty expression id = 14.

Transaction 17:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0200000000, productline suffix = 80, reduction indicator = 1, start date = 2009-01-01, measure sid = 101, regulation id = R0801020, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.
 - measure component 2: duty expression id = 21.

Transaction 18:

- Message 1: Insert a stable measure with measure type id = 672, geographical area id = SG, additional code type id = 7, additional code id = 111, start date = 2008-01-01, additional code sid = 115, reduction indicator = 2, start date = 2009-01-01, measure sid = 102, regulation id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

R0801030, regulation role type = 4:

- measure component 1: duty expression id = 01, duty amount = 10.000.

Transaction 19:

- Message 1: Insert a stable measure with measure type id = 672, geographical area id = 1011, additional code type id = 7, additional code id = 111, start date = 2008-01-01, additional code sid = 115, reduction indicator = 1, start date = 2009-01-01, measure sid = 103, regulation id = R0801040, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.

Transaction 20:

- Message 1: Insert a stable measure with measure type id = 674, geographical area id = SG, additional code type id = 7, additional code id = 111, start date = 2008-01-01, additional code sid = 115, reduction indicator = 2, start date = 2009-01-01, measure sid = 104, regulation id = R0801050, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.

Transaction 21:

- Message 1: Insert a stable measure with measure type id = 674, geographical area id = 1011, additional code type id = 7, additional code id = 111, start date = 2008-01-01, additional code sid = 115, reduction indicator = 1, start date = 2009-01-01, measure sid = 105, regulation id = R0801060, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.

Transaction 22:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2011-02-01, measure sid = 106, regulation id = R0801070, regulation role type = 4:
 - measure component 1: duty expression id = 01, duty amount = 10.000.

Expected

The message is composed of transactions replying to the original

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

output:

transactions:

Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.
- Message 2, on modification.regulation.ref : OK.
- Message 3, on modification.regulation.ref : OK.
- Message 4, on modification.regulation.ref : OK.
- Message 5, on modification.regulation.ref : OK.
- Message 6, on modification.regulation.ref : OK.
- Message 7, on modification.regulation.ref : OK.
- Message 8, on modification.regulation.ref : OK.
- Message 9, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 3:

- Message 1, on country.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.

Reply to transaction 6:

- Message 1, on duty.expression.ref : OK.
- Message 2, on duty.expression.ref : OK.
- Message 3, on duty.expression.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1, on measurement.unit.qualifier.ref : OK.

Reply to transaction 9:

- Message 1, on measurement.unit.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 10:

- Message 1, on additional.code.type.ref : OK.
- Message 2, on additional.code.type.ref : OK.

Reply to transaction 11:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.

Reply to transaction 12:

- Message 1, on measure.type.ref : OK.
- Message 2, on measure.type.ref : OK.
- Message 3, on measure.type.ref : OK.

Reply to transaction 13:

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

Reply to transaction 14:

- Message 1, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 2, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 3, on
measure.agricultural.duty.expression.rule.ref : OK.
- Message 4, on
measure.agricultural.duty.expression.rule.ref : OK.

Reply to transaction 15:

- Message 1, on agricultural.measure.validation.rule.ref :
OK.
- Message 2, on agricultural.measure.validation.rule.ref :
OK.
- Message 3, on agricultural.measure.validation.rule.ref :
OK.
- Message 4, on agricultural.measure.validation.rule.ref :
OK.
- Message 5, on agricultural.measure.validation.rule.ref :
OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 6, on agricultural.measure.validation.rule.ref : OK.
- Message 7, on agricultural.measure.validation.rule.ref : OK.
- Message 8, on agricultural.measure.validation.rule.ref : OK.

Reply to transaction 16:

- Message 1, on measure : OK.

Reply to transaction 17:

- Message 1, on measure : OK.

Reply to transaction 18:

- Message 1, on measure : OK.

Reply to transaction 19:

- Message 1, on measure : OK.

Reply to transaction 20:

- Message 1, on measure : OK.

Reply to transaction 21:

- Message 1, on measure : OK.

Reply to transaction 22:

- Message 1, on measure : OK.

2.4.8. Test case dm_mod_update_01.xml: Update of unstable to unstable modification regulation.

Message: dm_mod_update_01.xml

Precondition: Make sure the *dm_mod_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 modification regulation with regulation id = *R9999999*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Update the unstable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-03-01*, end date = *2009-02-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 7:

- Message 1: Update the unstable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-02-01*, end date = *2010-02-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 8:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 9:

- Message 1: Update the unstable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-02-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 10:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 11:

- Message 1: Update the unstable modification regulation with regulation id = *R0801040*, regulation role type = *4*, start date = *2008-10-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 12:

- Message 1: Request the measure with query space field =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

*MEASURE.MEASURE REF.Measure sid, operator = =,
constant = 20.*

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 7:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 8:

- Message 1 : OK.

Reply to transaction 9:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 10:

- Message 1 : OK.

Reply to transaction 11:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

2.4.9. Test case dm_mod_update_02.xml: Update of unstable to stable modification regulation.

Message: dm_mod_update_02.xml

Precondition: Make sure the *dm_mod_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 modification regulation with regulation id = R9999999, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Update the stable modification regulation with regulation id = R0801010, regulation role type = 4, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 3:

- Message 1: Update the stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-03-01, end date = 2009-02-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 5:

- Message 1: Update the stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 1999-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 6:

- Message 1: Update the stable modification regulation with regulation id = R0801080, regulation role type = 4, start date = 2009-01-01, end date = 2009-05-01, regulation id = R0801080, regulation role type = 1, approved flag = 1.

Transaction 7:

- Message 1: Update the stable modification regulation with regulation id = R0801020, regulation role type = 4, start date = 2009-01-01, regulation id = R0801020, regulation role type = 1, approved flag = 1.

Transaction 8:

- Message 1: Update the stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-02-01, end date = 2010-02-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 9:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801010, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

constant = 4.

Transaction 10:

- Message 1: Update the stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-02-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 11:

- Message 1: Request the modification regulation with operator = AND, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id, operator = =, constant = R0801050, query space field = MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type, operator = =, constant = 4.

Transaction 12:

- Message 1: Update the stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2008-10-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 13:

- Message 1: Request the measure with query space field = MEASURE.MEASURE REF.Measure sid, operator = =, constant = 20.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.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.

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 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-MOD-3: The validity period of the related base regulation must always span the validity period of the modification regulation, whatever changes the base regulation or the modification regulation validity period might undergo.

Reply to transaction 6:

- Message 1, on base.regulation.ref : VR-MOD-5: The end date of a modification regulation cannot be changed from implicit to explicit (from being empty to being filled in) if its base regulation is already explicitly abrogated. When the end date of a modification regulation is not filled in, it is said to be an implicit end date. In this case the reference end date of the modification regulation is the end date of the related base regulation. When the end date of a modification regulation is filled in, it is said to be an explicit end date.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-MOD-7: The base regulation must be stable when the modification regulation is stable.

Reply to transaction 8:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 9:

- Message 1 : OK.

Reply to transaction 10:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 11:

- Message 1 : OK.

Reply to transaction 12:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 13:

- Message 1 : OK.

2.4.10. Test case dm_mod_update_03.xml: Update of stable to stable modification regulation.

Message: dm_mod_update_03.xml

Precondition: Make sure the dm_mod_update_setup_02.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable modification regulation with regulation id = *R9999999*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-01-01*, end date = *2008-12-31*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable modification regulation with regulation id = *R0801070*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 5:

- Message 1: Update the stable modification regulation with regulation id = *C0801010*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *0*.

Transaction 7:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2005-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 8:

- Message 1: Update the stable modification regulation with regulation id = *R0801090*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-01-01*, regulation id = *R0801080*, regulation role type = *1*, approved flag = *1*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Transaction 9:

- Message 1: Update the stable modification regulation with regulation id = *R0801060*, regulation role type = *4*, start date = *2009-01-01*, end date = *2011-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 10:

- Message 1: Update the stable modification regulation with regulation id = *R0801050*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 11:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-01-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 12:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 13:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 14:

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = *=*, constant = *4*.

Transaction 15:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Update the stable modification regulation with regulation id = *R0801040*, regulation role type = *4*, start date = *2008-10-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 16:

- Message 1: Request the measure with query space field = *MEASURE.MEASURE REF.Measure sid*, operator = *=*, constant = *20*.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.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.

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 modification.regulation.ref : VR-ROL-4: If a role regulation has been abrogated or prorogued, it cannot be modified, apart from modifying a base regulation's regulation group.

Reply to transaction 5:

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 7:

- Message 1, on base.regulation.ref : VR-MOD-3: The validity period of the related base regulation must always span the validity period of the modification regulation, whatever changes the base regulation or the modification regulation validity period might undergo.

Reply to transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on base.regulation.ref : VR-MOD-5: The end date of a modification regulation cannot be changed from implicit to explicit (from being empty to being filled in) if its base regulation is already explicitly abrogated. When the end date of a modification regulation is not filled in, it is said to be an implicit end date. In this case the reference end date of the modification regulation is the end date of the related base regulation. When the end date of a modification regulation is filled in, it is said to be an explicit end date.

Reply to transaction 9:

- Message 1, on modification.regulation.ref : VR-FTS-1: The validity period of the related stopped regulation must always span the validity period of the FTS regulation, whatever changes the stopped regulation or the FTS regulation validity periods might undergo.

Reply to transaction 10:

- Message 1, on modification.regulation.ref : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 11:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 14:

- Message 1 : OK.

Reply to transaction 15:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 16:

- Message 1 : OK.

2.4.11. Test case dm_mod_update_04.xml: Update of stable to stable modification regulation.

Message: dm_mod_update_04.xml

Precondition: Make sure the dm_mod_update_setup_03.xml message has

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-05-15*, end date = *2010-10-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 2:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = *4*, start date = *2009-01-01*, end date = *2009-05-15*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 3:

- Message 1: Update the stable modification regulation with regulation id = *R0801030*, regulation role type = *4*, start date = *2009-01-01*, end date = *2009-04-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 4:

- Message 1: Update the stable modification regulation with regulation id = *R0801030*, regulation role type = *4*, start date = *2008-05-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 5:

- Message 1: Update the stable modification regulation with regulation id = *R0801040*, regulation role type = *4*, start date = *2007-01-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 6:

- Message 1: Update the stable modification regulation with regulation id = *R0801040*, regulation role type = *4*, start date = *2009-01-01*, regulation id = *R0801010*, regulation role type = *1*, approved flag = *1*.

Transaction 7:

- Message 1: Update the stable modification regulation with regulation id = *R0801050*, regulation role type = *4*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

start date = 2007-01-01, end date = 2010-01-01,
regulation id = R0801010, regulation role type = 1,
approved flag = 1.

Transaction 8:

- Message 1: Update the stable modification regulation with regulation id = R0801050, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 9:

- Message 1: Update the stable modification regulation with regulation id = R0801080, regulation role type = 4, start date = 2009-02-01, end date = 2015-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 10:

- Message 1: Update the stable modification regulation with regulation id = R0801080, regulation role type = 4, start date = 2009-01-01, end date = 2009-09-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 2:

- Message 1, on modification.regulation.ref : VR-MGR-6: The validity period of the regulation must always span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 3:

- Message 1, on modification.regulation.ref : VR-MGR-13: The justification regulation of the measures having this regulation as measure-generating regulation must be either the measure's measure-generating regulation or a measure-generating regulation, valid on the day after the measure's explicit end date.

Reply to transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on modification.regulation.ref : VR-MGR-16: The validity period of the measures having this regulation as measure-generating regulation cannot overlap other measure occurrences having a goods nomenclature equal, superior or inferior in the same nomenclature hierarchy and referencing the same measure type, origin/destination area, order number, additional code and reduction indicator.

Reply to transaction 5:

- Message 1, on modification.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on modification.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on modification.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on modification.regulation.ref : VR-MGR-11: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the object referenced by their additional code reference (be it an "additional code" element or an "ERN" element or a "Meursing additional code" element).
- Message 1, on modification.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on modification.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on modification.regulation.ref : VR-MGR-20: The validity period of the measures having this

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.

- Message 1, on modification.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on modification.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.
- Message 1, on modification.regulation.ref : VR-MGR-33: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the additional code type_measure type association.

Reply to transaction 6:

- Message 1, on modification.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on modification.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on modification.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on modification.regulation.ref : VR-MGR-11: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the object referenced

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

by their additional code reference (be it an "additional code" element or an "ERN" element or a "Meursing additional code" element).

- Message 1, on modification.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on modification.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on modification.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on modification.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.
- Message 1, on modification.regulation.ref : VR-MGR-33: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the additional code type_measure type association.

Reply to transaction 7:

- Message 1, on modification.regulation.ref : VR-MGR-7: The validity period of the measures having this

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation as measure-generating regulation must be enclosed by the validity period of their measure type.

- Message 1, on modification.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on modification.regulation.ref : VR-MGR-10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.
- Message 1, on modification.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on modification.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on modification.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on modification.regulation.ref : VR-MGR-23: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the condition code of their measure conditions.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1, on modification.regulation.ref : VR-MGR-24: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the certificate of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-25: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-26: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-27: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-28: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the action code of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must spans the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 8:

- Message 1, on modification.regulation.ref : VR-MGR-7: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their measure type.
- Message 1, on modification.regulation.ref : VR-MGR-8: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of their origin/destination area.
- Message 1, on modification.regulation.ref : VR-MGR-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

10: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by their goods nomenclature.

- Message 1, on modification.regulation.ref : VR-MGR-12: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of every footnote associated to them.
- Message 1, on modification.regulation.ref : VR-MGR-19: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the duty expression of their components.
- Message 1, on modification.regulation.ref : VR-MGR-20: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the monetary unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-21: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their components.
- Message 1, on modification.regulation.ref : VR-MGR-22: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their components.
- Message 1, on modification.regulation.ref : VR-MGR-23: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the condition code of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-24: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the certificate of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-25: The validity period of the measures having this regulation as measure-generating regulation must be

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

enclosed by the validity period of the monetary unit of their measure conditions.

- Message 1, on modification.regulation.ref : VR-MGR-26: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-27: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the measurement unit qualifier of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-28: The validity period of the measures having this regulation as measure-generating regulation must be enclosed by the validity period of the action code of their measure conditions.
- Message 1, on modification.regulation.ref : VR-MGR-32: The validity period of the measure type-regulation group association must span the validity period of the measures having this regulation as measure-generating regulation.

Reply to transaction 9:

- Message 1, on modification.regulation.ref : VR-MGR-9: The validity period of the measures having this regulation as measure-generating regulation must overlap the membership period of each excluded area (to the geographical area group referenced as origin/destination for the measure).
- Message 1, on modification.regulation.ref : VR-MGR-29: The validity period of the measures having this regulation as measure-generating regulation must span the PTS period of the PTS regulation.

Reply to transaction 10:

- Message 1, on modification.regulation.ref : VR-MGR-9: The validity period of the measures having this regulation as measure-generating regulation must overlap the membership period of each excluded area (to the geographical area group referenced as origin/destination for the measure).
- Message 1, on modification.regulation.ref : VR-MGR-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

29: The validity period of the measures having this regulation as measure-generating regulation must span the PTS period of the PTS regulation.

2.4.12. Test case *dm_mod_update_05.xml*: Update of stable to stable modification regulation.

Message: *dm_mod_update_05.xml*

Precondition: Make sure the *dm_mod_update_setup_04.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = 4, start date = *2008-03-01*, end date = *2010-01-01*, regulation id = *R0801030*, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = 4, start date = *2011-02-01*, end date = *2011-05-01*, regulation id = *R0801030*, regulation role type = 1, approved flag = 1.

Transaction 3:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = 4, start date = *2013-02-01*, end date = *2014-01-01*, regulation id = *R0801030*, regulation role type = 1, approved flag = 1.

Transaction 4:

- Message 1: Update the stable modification regulation with regulation id = *R0801030*, regulation role type = 4, start date = *2013-02-01*, end date = *2014-01-01*, regulation id = *R0801070*, regulation role type = 1, approved flag = 1.

Transaction 5:

- Message 1: Update the stable modification regulation with regulation id = *R0801010*, regulation role type = 4, start date = *2014-02-01*, end date = *2015-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation id = R0801030, regulation role type = 1,
approved flag = 1.

**Expected
output:**

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : VR-MGR-37: The reduction indicator of the measures having this regulation as measure-generating regulation must be empty, if their measure type and geographical area are listed in neither a "Measures-Agricultural Duty Expression Rule", nor an "Agricultural Measures Validation Rule", for which the validity period spans the start date of the measure.
- Message 1, on modification.regulation.ref : VR-MGR-39: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in a "Measures-Agricultural Duty Expression Rule", and their validity period intercepts the validity period in this rule, and none of their measure components contains an "Agricultural Duty Expression", their reduction indicator must be empty.

Reply to transaction 2:

- Message 1, on modification.regulation.ref : VR-MGR-36: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in a "Measures-Agricultural Duty Expression Rule", and their validity period intercepts the validity period in this rule, there may be no overlap in time with other measure occurrences with the same measure type + geographical area + nomenclature item id + additional code type + additional code + order number.

Reply to transaction 3:

- Message 1, on modification.regulation.ref : VR-MGR-40: If a measure having this regulation as measure-generating regulation contains an "agricultural duty expression" with reduction type "Reduced" then the reduction indication must be between (inclusive) 1 and the maximum indicated in the "Agricultural Measures Validation Rule" for which: the validity period covers the start date of the measure; the measure type corresponds to the agricultural measure type defined in the "Agricultural Duty Expression" and linked to the measure's agricultural duty expression; and the

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

geographical area corresponds to the measure's geographical area.

Reply to transaction 4:

- Message 1, on modification.regulation.ref : VR-MGR-38: If the measure type and geographical area of the measures having this regulation as measure-generating regulation are listed in an "Agricultural Measures Validation Rule", and their validity period intercepts the validity period in this rule, the value of their reduction indicator must be between (inclusive) 1 and the maximum value of the reduction indicator in this rule.

Reply to transaction 5:

- Message 1, on modification.regulation.ref : VR-MGR-35: The validity period of the measures having this regulation as measure-generating regulation and which have agricultural duty expressions in their components must be enclosed by the validity period of the measure-agricultural duty expression rule if their start date is enclosed by its validity period.
- Message 1, on modification.regulation.ref : VR-MGR-37: The reduction indicator of the measures having this regulation as measure-generating regulation must be empty, if their measure type and geographical area are listed in neither a "Measures-Agricultural Duty Expression Rule", nor an "Agricultural Measures Validation Rule", for which the validity period spans the start date of the measure.
- Message 1, on modification.regulation.ref : VR-MGR-40: If a measure having this regulation as measure-generating regulation contains an "agricultural duty expression" with reduction type "Reduced" then the reduction indication must be between (inclusive) 1 and the maximum indicated in the "Agricultural Measures Validation Rule" for which: the validity period covers the start date of the measure; the measure type corresponds to the agricultural measure type defined in the "Agricultural Duty Expression" and linked to the measure's agricultural duty expression; and the geographical area corresponds to the measure's geographical area.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

2.4.13. Test case dm_mod_delete_setup_01.xml: Insertion of delete modification regulation reference data

Message: dm_mod_delete_setup_01.xml

Precondition: First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose the dm_mod_setup_01.xml message should be successfully processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable modification regulation with regulation id = R0801010, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 2: Insert a stable modification regulation with regulation id = R0801020, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 3: Insert a stable modification regulation with regulation id = R0801030, regulation role type = 4, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.
- Message 4: Insert a stable modification regulation with regulation id = R0801040, regulation role type = 4, start date = 2009-01-01, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = R0801020, regulation role type = 7:

regulation id = R0801020, regulation role type = 4.

abrogation date = 2010-01-01, approved flag = 1.

Transaction 3:

- Message 1: Insert a stable fts regulation with regulation id = R0801030, regulation role type = 8, start date = 2010-01-01, end date = 2012-01-01:
 - fts regulation action 1: regulation id = R0801030,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

regulation role type = 4.

approved flag = 1.

Transaction 4:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801040*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801040*, regulation role type = 4, extended date = *2011-01-01*.

approved flag = 1.

Transaction 5:

- Message 1: Insert a stable modification regulation with regulation id = *C0801010*, regulation role type = 4, start date = *2009-01-01*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = 1, approved flag = 1.

Transaction 6:

- Message 1: Insert a stable measure type series with measure type series id = *TB*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of TB*.
 - description 2: language id = *FR*, description = *French Description of TB*.
 - description 3: language id = *NL*, description = *Dutch Description of TB*.

measure type combination = 0.

Transaction 7:

- Message 1: Insert a stable country with country id = *SF*, start date = *2008-01-01*, country sid = *103*, end date = *2015-01-01*, area code = 0:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

description = *Dutch Description of SF*.

- Message 2: Insert a stable country with country id = *SG*, start date = *2008-01-01*, country sid = *104*, end date = *2015-01-01*, area code = *0*:
 - description period 1: start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of SF*.
 - description 2: language id = *FR*, description = *French Description of SF*.
 - description 3: language id = *NL*, description = *Dutch Description of SF*.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *9900000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1*:
 - description period 1: start date = *2008-01-01*, description period sid = *1*:
 - description 1: language id = *EN*, description = *English Description of 9900000000*.
 - description 2: language id = *FR*, description = *French Description of 9900000000*.
 - description 3: language id = *NL*, description = *Dutch Description of 9900000000*.
 - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *10*.
 statistical indicator = *0*.
- Message 2: Insert a stable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *101*, end date = *2015-01-01*:
 - description period 1: start date = *2008-01-01*, description period sid = *101*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- description 1: language id = *EN*,
description = *English Description of 0100000000*.
- description 2: language id = *FR*,
description = *French Description of 0100000000*.
- description 3: language id = *NL*,
description = *Dutch Description of 0100000000*.

- indent 1: indent sid = *101*, start date = *2008-01-01*, indent number = *1*.

goods nomenclature id = *9900000000*,
productline suffix = *80*, start date = *2008-01-01*,
goods nomenclature sid = *1*.

statistical indicator = *0*.

Transaction 9:

- Message 1: Insert a stable measure type with measure type id = *138*, start date = *2008-01-01*, end date = *2015-01-01*:
 - description 1: language id = *EN*, description = *English Description of 138*.
 - description 2: language id = *FR*, description = *French Description of 138*.
 - description 3: language id = *NL*, description = *Dutch Description of 138*.

measure type series id = *TB*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2008-01-01*, end date = *2015-01-01*.
- associated regulation group 2: regulation group id = *REX*, start date = *2008-01-01*, end date = *2015-01-01*.

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

code = 1.

Transaction 10:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SF, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-05-01, measure sid = 100, end date = 2009-06-01, regulation id = R0801010, regulation role type = 4, regulation id = R0801010, regulation role type = 4.

Transaction 11:

- Message 1: Insert a stable measure with measure type id = 138, geographical area id = SG, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, measure sid = 101, end date = 2009-06-01, regulation id = C0801010, regulation role type = 4, regulation id = C0801010, regulation role type = 4.

Expected output:

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

Reply to transaction 1:

- Message 1, on modification.regulation.ref : OK.
- Message 2, on modification.regulation.ref : OK.
- Message 3, on modification.regulation.ref : OK.
- Message 4, on modification.regulation.ref : OK.

Reply to transaction 2:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on fts.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 5:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on measure.type.series.ref : OK.

Reply to transaction 7:

- Message 1, on country.ref : OK.
- Message 2, on country.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 8:

- Message 1, on goods.nomenclature.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.

Reply to transaction 9:

- Message 1, on measure.type.ref : OK.

Reply to transaction 10:

- Message 1, on measure : OK.

Reply to transaction 11:

- Message 1, on measure : OK.

2.4.14. Test case dm_mod_delete_01.xml: Deletion of a modification regulation

Message: dm_mod_delete_01.xml

Precondition: Make sure the *dm_mod_delete_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the modification regulation with regulation id = *R9999999*, regulation role type = 4.

Transaction 2:

- Message 1: Delete the modification regulation with regulation id = *R0801020*, regulation role type = 4.

Transaction 3:

- Message 1: Delete the modification regulation with regulation id = *R0801030*, regulation role type = 4.

Transaction 4:

- Message 1: Delete the modification regulation with regulation id = *R0801040*, regulation role type = 4.

Transaction 5:

- Message 1: Delete the modification regulation with regulation id = *R0801010*, regulation role type = 4.

Transaction 6:

- Message 1: Delete the modification regulation with regulation id = *C0801010*, regulation role type = 4.

Transaction 7:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

- Message 1: Request the modification regulation with operator = *AND*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *C0801010*, query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.Regulation role type*, operator = =, constant = *4*.

Transaction 8:

- Message 1: Request the measure with query space field = *MEASURE.MEASURE REF.Measure sid*, operator = =, constant = *101*.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on *modification.regulation.ref* : VR-MGR-4:
A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 3:

- Message 1, on *modification.regulation.ref* : VR-MGR-4:
A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

Reply to transaction 4:

- Message 1, on *modification.regulation.ref* : VR-MGR-4:
A role-regulation cannot be deleted if it has been abrogated, fully temporarily stopped, replaced (completely or partially) or prorogued, if it is replacing another regulation (completely or partially), if it has related modification regulations or if it is used in a provisional-definitive anti-dumping relationship.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TABLE OF CONTENTS	Ref: TARIC3-STP

Reply to transaction 5:

- Message 1, on modification.regulation.ref : VR-MGR-5:
A role-regulation cannot be deleted if it is a non-draft regulation generating measures or if it is used as a justification regulation, except for draft regulations used only in measures as both measure-generating regulation and justification regulation.

Reply to transaction 6:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 7:

- Message 1 : OK.

Reply to transaction 8:

- Message 1 : OK.

2.5. Prorogation regulation

2.5.1. Test case **init_ref_prorogation_regulation_setup**: Insertion of prorogation regulation reference data

Message: **init_ref_prorogation_regulation_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*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- description 1: language id = *EN*, description = *English Description of nl.*
- description 2: language id = *FR*, description = *Description francaise nl.*
- Message 4: Insert a stable regulation role type with regulation role type id = *1*, start date = *2006-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*
- Message 5: Insert a stable regulation role type with regulation role type id = *2*, start date = *2006-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*
- Message 6: Insert a stable regulation role type with regulation role type id = *3*, start date = *2006-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*
- Message 7: Insert a stable regulation role type with regulation role type id = *4*, start date = *2006-02-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- description 3: language id = *NL*, description = *Dutch Description*.
- Message 8: Insert a stable regulation role type with regulation role type id = 5, start date = 2006-02-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- Message 9: Insert a stable regulation role type with regulation role type id = 6, start date = 2006-02-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- Message 10: Insert a stable regulation role type with regulation role type id = 7, start date = 2006-02-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- Message 11: Insert an unstable regulation role type with regulation role type id = 8, start date = 2006-02-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Transaction 02:

- Message 1: Insert a stable legal regulation with regulation id = *R0800001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 2: Insert a stable legal regulation with regulation id = *R0800002*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 3: Insert a stable legal regulation with regulation id = *R0800003*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 4: Insert an unstable legal regulation with regulation id = *C0800004*.
- Message 5: Insert a stable legal regulation with regulation id = *C0802001*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 6: Insert a stable legal regulation with regulation id = *R0801012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 7: Insert a stable legal regulation with regulation id = *R0801013*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 8: Insert a stable legal regulation with regulation id = *R0801014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 9: Insert a stable legal regulation with regulation id = *R0801015*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 10: Insert a stable legal regulation with regulation id = *R0801016*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 11: Insert a stable legal regulation with regulation id = *R0801017*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 12: Insert a stable legal regulation with regulation id = *R0801018*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 13: Insert a stable legal regulation with regulation id = *R0801019*, published date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

official journal number = 1, official journal page = 1.

- Message 14: Insert a stable legal regulation with regulation id = R0801020, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 15: Insert a stable legal regulation with regulation id = R0801021, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 16: Insert a stable legal regulation with regulation id = R0801022, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 17: Insert a stable legal regulation with regulation id = R0801023, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 18: Insert a stable legal regulation with regulation id = C0801010, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 19: Insert a stable legal regulation with regulation id = R0801024, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 20: Insert a stable legal regulation with regulation id = R0801025, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 21: Insert a stable legal regulation with regulation id = R0801026, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 22: Insert a stable legal regulation with regulation id = R0801027, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 23: Insert a stable legal regulation with regulation id = C0801027, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 24: Insert a stable legal regulation with regulation id = C0801028, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 25: Insert a stable legal regulation with regulation id = R0802008, published date = 2008-01-01, official journal number = 1, official journal page = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 26: Insert a stable legal regulation with regulation id = *R0802009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 27: Insert a stable legal regulation with regulation id = *C0802008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 28: Insert a stable legal regulation with regulation id = *R0802010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 29: Insert a stable legal regulation with regulation id = *R0802011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 30: Insert a stable legal regulation with regulation id = *R0802012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 31: Insert a stable legal regulation with regulation id = *R0802014*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 32: Insert a stable legal regulation with regulation id = *R0802015*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 33: Insert a stable legal regulation with regulation id = *R0803009*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 34: Insert a stable legal regulation with regulation id = *R0803008*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 35: Insert a stable legal regulation with regulation id = *R0803010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 36: Insert a stable legal regulation with regulation id = *R0803011*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 37: Insert a stable legal regulation with regulation id = *R0803012*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.
- Message 38: Insert a stable legal regulation with regulation id = *R0803014*, published date = *2008-01-01*,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

official journal number = 1, official journal page = 1.

- Message 39: Insert a stable legal regulation with regulation id = R0803015, published date = 2008-01-01, official journal number = 1, official journal page = 1.
- Message 40: Insert a stable legal regulation with regulation id = R0800004, published date = 2008-01-01, official journal number = 1, official journal page = 1.

Transaction 3:

- Message 1: Insert a stable regulation group with regulation group id = GGA, start date = 2007-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*

Transaction 4:

- Message 1: Insert a stable base regulation with regulation id = R0800001, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 2: Insert a stable base regulation with regulation id = R0800002, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 3: Insert a stable base regulation with regulation id = R0800003, regulation role type = 1, start date = 2008-01-01, community code = 3, regulation group id = GGA, approved flag = 1.
- Message 4: Insert an unstable base regulation with regulation id = R0800004, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 5: Insert a stable base regulation with regulation id = C0802001, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 6: Insert a stable base regulation with regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

id = R0800003, regulation role type = 3, start date = 2008-09-04, end date = 2008-12-21, community code = 3, regulation group id = GGA, approved flag = 1.

- Message 7: Insert a stable base regulation with regulation id = R0802008, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 8: Insert a stable base regulation with regulation id = R0803008, regulation role type = 1, start date = 2008-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 9: Insert a stable base regulation with regulation id = R0803009, regulation role type = 1, start date = 2008-01-01, end date = 2010-01-01, community code = 1, regulation group id = GGA, approved flag = 1.
- Message 10: Insert a stable modification regulation with regulation id = R0803008, regulation role type = 4, start date = 2009-01-01, base regulation id = R0803008, base regulation role type = 1, approved flag = 1.
- Message 11: Insert a stable modification regulation with regulation id = R0803009, regulation role type = 4, start date = 2009-01-01, end date = 2009-05-01, base regulation id = R0803009, base regulation role type = 1, approved flag = 1.

Expected output:

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

Reply to transaction 1:

- Message 1, on language.ref : OK.
- Message 2, on language.ref : OK.
- Message 3, on language.ref : OK.
- Message 4, on regulation.role.type.ref : OK.
- Message 5, on regulation.role.type.ref : OK.
- Message 6, on regulation.role.type.ref : OK.
- Message 7, on regulation.role.type.ref : OK.
- Message 8, on regulation.role.type.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 9, on regulation.role.type.ref : OK.
- Message 10, on regulation.role.type.ref : OK.
- Message 11, on regulation.role.type.ref : OK.

Reply to transaction 02:

- Message 1, on legal.regulation.ref : OK.
- Message 2, on legal.regulation.ref : OK.
- Message 3, on legal.regulation.ref : OK.
- Message 4, on legal.regulation.ref : OK.
- Message 5, on legal.regulation.ref : OK.
- Message 6, on legal.regulation.ref : OK.
- Message 7, on legal.regulation.ref : OK.
- Message 8, on legal.regulation.ref : OK.
- Message 9, on legal.regulation.ref : OK.
- Message 10, on legal.regulation.ref : OK.
- Message 11, on legal.regulation.ref : OK.
- Message 12, on legal.regulation.ref : OK.
- Message 13, on legal.regulation.ref : OK.
- Message 14, on legal.regulation.ref : OK.
- Message 15, on legal.regulation.ref : OK.
- Message 16, on legal.regulation.ref : OK.
- Message 17, on legal.regulation.ref : OK.
- Message 18, on legal.regulation.ref : OK.
- Message 19, on legal.regulation.ref : OK.
- Message 20, on legal.regulation.ref : OK.
- Message 21, on legal.regulation.ref : OK.
- Message 22, on legal.regulation.ref : OK.
- Message 23, on legal.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 24, on legal.regulation.ref : OK.
- Message 25, on legal.regulation.ref : OK.
- Message 26, on legal.regulation.ref : OK.
- Message 27, on legal.regulation.ref : OK.
- Message 28, on legal.regulation.ref : OK.
- Message 29, on legal.regulation.ref : OK.
- Message 30, on legal.regulation.ref : OK.
- Message 31, on legal.regulation.ref : OK.
- Message 32, on legal.regulation.ref : OK.
- Message 33, on legal.regulation.ref : OK.
- Message 34, on legal.regulation.ref : OK.
- Message 35, on legal.regulation.ref : OK.
- Message 36, on legal.regulation.ref : OK.
- Message 37, on legal.regulation.ref : OK.
- Message 38, on legal.regulation.ref : OK.
- Message 39, on legal.regulation.ref : OK.
- Message 40, on legal.regulation.ref : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on base.regulation.ref : OK.
- Message 2, on base.regulation.ref : OK.
- Message 3, on base.regulation.ref : OK.
- Message 4, on base.regulation.ref : OK.
- Message 5, on base.regulation.ref : OK.
- Message 6, on base.regulation.ref : OK.
- Message 7, on base.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 8, on base.regulation.ref : OK.
- Message 9, on base.regulation.ref : OK.
- Message 10, on modification.regulation.ref : OK.
- Message 11, on modification.regulation.ref : OK.

2.5.2. Test case dm_pror_unstable_insert: Insert an unstable prorogation regulation

Message: dm_pror_unstable_insert.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_prorogation_regulation_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 prorogation regulation with regulation id = *R0800000*, regulation role type = 5, approved flag = 1.

Transaction 2:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801010*, published date = *2008-01-01*, official journal number = 1, official journal page = 1.

Transaction 3:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801010*, regulation role type = 5, approved flag = 1.

Transaction 4:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801010*, regulation role type = 5, approved flag = 1.

Transaction 5:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801011*, published date = *2008-01-01*, official journal number = 1, official journal page = 1.

Transaction 6:

- Message 1: Insert an unstable prorogation regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

with regulation id = *R0801011*, regulation role type = 5:

- prorogation regulation action 1: regulation id = *R0800000*, regulation role type = 1.

approved flag = 1.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *R0801012*, regulation role type = 1, start date = *2008-01-01*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 8:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = *R0801013*, regulation role type = 7:

regulation id = *R0801012*, regulation role type = 1.

abrogation date = *2008-01-01*, approved flag = 1.

Transaction 9:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801014*, regulation role type = 5:

- prorogation regulation action 1: regulation id = *R0801013*, regulation role type = 1.

approved flag = 1.

Transaction 10:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801014*, regulation role type = 5:

- prorogation regulation action 1: regulation id = *R0801012*, regulation role type = 1.

approved flag = 1.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = *R0801014*, regulation role type = 1, start date = *2008-01-01*, end date = *2009-01-01*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 12:

- Message 1: Insert a stable modification regulation with regulation id = *R0801015*, regulation role type = 4, start date = *2008-01-01*, end date = *2009-01-01*, regulation id

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

= *R0801014*, regulation role type = *1*, approved flag = *1*.

Transaction 13:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801016*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0801014*, regulation role type = *1*.
 - prorogation regulation action 2: regulation id = *R0801015*, regulation role type = *4*.

approved flag = *1*.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0801017*, regulation role type = *1*, start date = *2008-01-01*, end date = *2009-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 15:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801018*, regulation role type = *6*:

regulation id = *R0801017*, regulation role type = *1*.

approved flag = *1*.

Transaction 16:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801019*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0801017*, regulation role type = *1*.

approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *R0801019*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 18:

- Message 1: Insert a stable modification regulation with regulation id = *R0801020*, regulation role type = *4*, start date = *2008-01-01*, regulation id = *R0801019*, regulation

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

role type = 1, approved flag = 1.

Transaction 19:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801021*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801019*, regulation role type = 1.
 - prorogation regulation action 2: regulation id = *R0801020*, regulation role type = 4.

approved flag = 1.

Transaction 20:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801021*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801014*, regulation role type = 1, extended date = *2008-12-03*.
 - prorogation regulation action 2: regulation id = *R0801015*, regulation role type = 4, extended date = *2008-07-25*.

approved flag = 1.

Transaction 21:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801021*.

Transaction 22:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0801023*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801014*, regulation role type = 1.
 - prorogation regulation action 2: regulation id = *R0801014*, regulation role type = 1.

approved flag = 1.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation id = *C0801010*, regulation role type = 1, start date =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 24:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801023, regulation role type = 5:
 - prorogation regulation action 1: regulation id = C0801010, regulation role type = 1.
- approved flag = 1.

Transaction 25:

- Message 1: Insert a stable base regulation with regulation id = R0801023, regulation role type = 2, start date = 2008-01-01, end date = 2008-09-03, regulation id = R0800003, regulation role type = 3, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 26:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801024, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801023, regulation role type = 2.
- approved flag = 1.

Transaction 27:

- Message 1: Insert a stable base regulation with regulation id = R0801024, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-30, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 28:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801025, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2008-12-31.
- approved flag = 1.

Transaction 29:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801025, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

date = 2009-12-31.

approved flag = 1.

Transaction 30:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801026, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2009-12-30.

approved flag = 1.

Transaction 31:

- Message 1: Insert an unstable prorogation regulation with regulation id = R0801027, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2010-12-31.

approved flag = 1.

Transaction 32:

- Message 1: Insert an unstable prorogation regulation with regulation id = C0801027, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2009-12-31.

approved flag = 1.

Transaction 33:

- Message 1: Insert an unstable prorogation regulation with regulation id = C0801028, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1.

approved flag = 1.

Transaction 34:

- Message 1: Insert an unstable prorogation regulation with regulation id = a0801026, regulation role type = 5a, approved flag = 1.

Expected

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

output:

Reply to transaction 1:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 2:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on prorogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 10:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-3: Only non-abrogated regulations (explicitly

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

or completely) can be prorogued.

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-3: Only non-abrogated regulations (explicitly or completely) can be prorogued.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 18:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 20:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-5: A regulation can only be prorogued once by the same prorogation regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-5: A regulation can only be prorogued once by the same prorogation regulation.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on regulation.id : VR-PRORACT-7: The prorogued regulation cannot be a draft regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 25:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 26:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-9: Creating a prorogation, deleting a prorogation or changing the last prorogation date (in the list of prorogations for the same role-regulation) is refused if the prorogued regulation is a provisional anti-dumping regulation related with a definitive anti-dumping regulation.

Reply to transaction 27:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 28:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 29:

- Message 1, on prorogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 30:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 31:

- Message 1, on prorogation.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Reply to transaction 32:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 33:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 34:

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

2.5.3. Test case dm_pror_unstable_update: Update an unstable prorogation regulation

Message: dm_pror_unstable_update_01.xml

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

Content: Transaction 1:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0800000*, regulation role type = 5, approved flag = 1.

Transaction 2:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800001*, regulation role type = 1.
approved flag = 1.

Transaction 3:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800002*, regulation role type = 1.
approved flag = 1.

Transaction 4:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 5:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802008*, regulation role type = 5, approved flag = 1.

Transaction 6:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802008*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *C0802001*, regulation role type = 1.

approved flag = 1.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = *R0802010*, regulation role type = 1, start date = *2008-01-01*, end date = *2008-12-31*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 8:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 9:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 10:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802012*, regulation role type = 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- prorogation regulation action 1: regulation id = *R0802010*, regulation role type = *1*, extended date = *2009-01-01*.

approved flag = *1*.

Transaction 11:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802012*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = *1*, extended date = *2010-01-01*.

approved flag = *1*.

Transaction 12:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802011*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = *1*, extended date = *2007-01-01*.

approved flag = *1*.

Transaction 13:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802011*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = *1*, extended date = *2010-01-01*.

approved flag = *1*.

Transaction 14:

- Message 1: Update the unstable prorogation regulation with regulation id = *R0802011*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = *1*, extended date = *2009-12-01*.

approved flag = *1*.

Reply to transaction 1:

Expected output:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Reply to transaction 2:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on regulation.id : VR-PRORACT-7: The prorogued regulation cannot be a draft regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 11:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on prorogation.regulation.ref : OK.

2.5.4. Test case dm_pror_unstable_delete: Delete an unstable prorogation regulation

Message: dm_pror_unstable_delete_01.xml

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

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

Content: Transaction 1:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800001*, regulation role type = 1.
 approved flag = 1.

Transaction 2:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 3:

- Message 1: Delete the prorogation regulation with regulation id = *R0802009*, regulation role type = 5.

Transaction 4:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 5:

- Message 1: Delete the prorogation regulation with regulation id = *R0802009*, regulation role type = 5.

Expected output:

Reply to transaction 1:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.id : OK.

Reply to transaction 4:

- Message 1 : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Reply to transaction 5:

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

2.5.5. Test case dm_pror_stable_insert: Insert a stable prorogation regulation

Message: dm_pror_stable_insert.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_prorogation_regulation_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 prorogation regulation with regulation id = *R0800000*, regulation role type = 5, approved flag = 1.

Transaction 2:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2008-01-01*, official journal number = 1, official journal page = 1.

Transaction 3:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801010*, regulation role type = 5, approved flag = 1.

Transaction 4:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801010*, regulation role type = 5, approved flag = 1.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = *R0801011*, published date = *2008-01-01*, official journal number = 1, official journal page = 1.

Transaction 6:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800000*, regulation role type = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

approved flag = 1.

Transaction 7:

- Message 1: Insert a stable base regulation with regulation id = R0801012, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 8:

- Message 1: Insert a stable explicit abrogation regulation with regulation id = R0801013, regulation role type = 7:

regulation id = R0801012, regulation role type = 1.

abrogation date = 2008-01-01, approved flag = 1.

Transaction 9:

- Message 1: Insert a stable prorogation regulation with regulation id = R0801014, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801013, regulation role type = 7, extended date = 2009-01-01.

approved flag = 1.

Transaction 10:

- Message 1: Insert a stable prorogation regulation with regulation id = R0801014, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801012, regulation role type = 1.

approved flag = 1.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = R0801014, regulation role type = 1, start date = 2008-01-01, end date = 2009-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 12:

- Message 1: Insert a stable modification regulation with regulation id = R0801015, regulation role type = 4, start date = 2008-01-01, end date = 2009-01-01, regulation id = R0801014, regulation role type = 1, approved flag = 1.

Transaction 13:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801016*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801014*, regulation role type = 1, extended date = *2009-05-02*.
 - prorogation regulation action 2: regulation id = *R0801015*, regulation role type = 4, extended date = *2009-05-02*.

approved flag = 1.

Transaction 14:

- Message 1: Insert a stable base regulation with regulation id = *R0801017*, regulation role type = 1, start date = *2008-01-01*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 15:

- Message 1: Insert a stable complete abrogation regulation with regulation id = *R0801018*, regulation role type = 6:

regulation id = *R0801017*, regulation role type = 1.

approved flag = 1.

Transaction 16:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801019*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801017*, regulation role type = 1.

approved flag = 1.

Transaction 17:

- Message 1: Insert a stable base regulation with regulation id = *R0801019*, regulation role type = 1, start date = *2008-01-01*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 18:

- Message 1: Insert a stable modification regulation with regulation id = *R0801020*, regulation role type = 4, start date = *2008-01-01*, regulation id = *R0801019*, regulation role type = 1, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Transaction 19:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801021*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801019*, regulation role type = 1.
 - prorogation regulation action 2: regulation id = *R0801020*, regulation role type = 4.
- approved flag = 1.

Transaction 20:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801021*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801014*, regulation role type = 1, extended date = *2009-05-03*.
 - prorogation regulation action 2: regulation id = *R0801015*, regulation role type = 4, extended date = *2009-05-03*.
- approved flag = 1.

Transaction 21:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801021*.
- Message 2: Request the base regulation with query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801014*.
- Message 3: Request the modification regulation with query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0801015*.

Transaction 22:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801023*, regulation role type = 5:
 - prorogation regulation action 1: regulation id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

R0801014, regulation role type = 1.

- prorogation regulation action 2: regulation id = *R0801014*, regulation role type = 1.

approved flag = 1.

Transaction 23:

- Message 1: Insert a stable base regulation with regulation id = *C0801010*, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 24:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801023*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *C0801010*, regulation role type = 1.

approved flag = 1.

Transaction 25:

- Message 1: Insert a stable base regulation with regulation id = *R0801023*, regulation role type = 2, start date = 2008-01-01, end date = 2008-09-03, regulation id = *R0800003*, regulation role type = 3, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 26:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801024*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801023*, regulation role type = 2.

approved flag = 1.

Transaction 27:

- Message 1: Insert a stable base regulation with regulation id = *R0801024*, regulation role type = 1, start date = 2008-01-01, end date = 2008-12-31, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 28:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801025*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0801024*, regulation role type = 1, extended

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

date = 2008-12-31.

approved flag = 1.

Transaction 29:

- Message 1: Insert a stable prorogation regulation with regulation id = R0801025, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2009-12-31.

approved flag = 1.

Transaction 30:

- Message 1: Insert a stable prorogation regulation with regulation id = R0801026, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2009-12-30.

approved flag = 1.

Transaction 31:

- Message 1: Insert a stable prorogation regulation with regulation id = R0801027, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2010-12-31.

approved flag = 1.

Transaction 32:

- Message 1: Insert a stable prorogation regulation with regulation id = C0801027, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0801024, regulation role type = 1, extended date = 2011-12-31.

approved flag = 1.

Transaction 33:

- Message 1: Insert an unstable legal regulation with regulation id = R0801028, published date = 2008-01-01, official journal number = 1, official journal page = 1.

Transaction 34:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1: Insert an unstable base regulation with regulation id = *R0801028*, regulation role type = *1*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

Transaction 35:

- Message 1: Insert an unstable legal regulation with regulation id = *R0801029*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 36:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801029*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0801028*, regulation role type = *1*.

approved flag = *1*.

Transaction 37:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0801026a*, regulation role type = *5a*, approved flag = *1*.

Transaction 38:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803008*, regulation role type = *5*, approved flag = *1*.
 - prorogation regulation action 1: regulation id = *R0803008*, regulation role type = *1*, *extended date: 2011-01-01*.

Transaction 39:

- Message 1: Query the base regulation with regulation id = *R0803008*, regulation role type = *1*
- Message 2: Query the modification regulation with regulation id = *R0803008*, regulation role type = *4*

Transaction 40:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803009*, regulation role type = *5*, approved flag = *1*.
 - prorogation regulation action 1: regulation id =

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

R0803009, regulation role type = 1, extended date: 2011-01-01.

Transaction 41:

- Message 1: Query the base regulation with regulation id = *R0803009*, regulation role type = 1
- Message 2: Query the modification regulation with regulation id = *R0803009*, regulation role type = 4

Expected output:

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

Reply to transaction 1:

- Message 1, on regulation.id : VR-ROL-2: The referenced legal regulation must exist.

Reply to transaction 2:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1, on prorogation.regulation.ref : VR-ROL-1: The role-regulation reference (combination of regulation ID and regulation role type) must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 7:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 9:

- Message 1, on regulation.role.type : VR-PRORACT-15: The prorogued (extended) regulation must refer to a measure-generating regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 10:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-3: Only non-abrogated regulations (explicitly or completely) can be prorogued.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 15:

- Message 1, on abrogation.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-3: Only non-abrogated regulations (explicitly or completely) can be prorogued.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 17:

- Message 1, on base.regulation.ref : OK.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Reply to transaction 18:

- Message 1, on modification.regulation.ref : OK.

Reply to transaction 19:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 20:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 21:

- Message 1 : OK.
- Message 2 : OK.
- Message 3 : OK.

Reply to transaction 22:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-5: A regulation can only be prorogued once by the same prorogation regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-5: A regulation can only be prorogued once by the same prorogation regulation.

Reply to transaction 23:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on regulation.id : VR-PRORACT-7: The prorogued regulation cannot be a draft regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 25:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 26:

- Message 1, on prorogation.regulation.action.list : VR-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

PRORACT-9: Creating a prorogation, deleting a prorogation or changing the last prorogation date (in the list of prorogations for the same role-regulation) is refused if the prorogued regulation is a provisional anti-dumping regulation related with a definitive anti-dumping regulation.

Reply to transaction 27:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 28:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-10: The new extension date must be greater than the effective end date of the pro-rogued regulation.

Reply to transaction 29:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 30:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-10: The new extension date must be greater than the effective end date of the pro-rogued regulation.

Reply to transaction 31:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 32:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 33:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 34:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 35:

- Message 1, on legal.regulation.ref : OK.

Reply to transaction 36:

- Message 1, on prorogation.regulation.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 prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

prorogued.

Reply to transaction 37:

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

Reply to transaction 38:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 39:

- Message 1, OK. The base regulation prorogued. It's effective end date is equal to 2011-01-01.
- Message 2, OK. The modification regulation prorogued. It's effective end date is equal to 2011-01-01.

Reply to transaction 40:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 41:

- Message 1, OK. The base regulation prorogued. It's effective end date is equal to 2011-01-01.
- Message 2, OK. The modification regulation is not prorogued. It's effective end date is equal to 2009-05-01.

2.5.6. Test case dm_pror_unstable_stable_update: Update an unstable prorogation regulation to stable

Message: dm_pror_unstable_stable_update_01.xml

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

Content: Transaction 1:

- Message 1: Update the stable prorogation regulation with regulation id = R0800000, regulation role type = 5, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Transaction 2:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800001*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 3:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800002*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 4:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 5:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802008*, regulation role type = 5, approved flag = 1.

Transaction 6:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802008*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800004*, regulation role type = 1.

approved flag = 1.

Transaction 7:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802014*, regulation role type = 5, approved flag = 1.

Transaction 8:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802014*, regulation role type = 5,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

approved flag = 0.

Transaction 9:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802015*, regulation role type = 5, approved flag = 1.

Transaction 10:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802015*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *C0802001*, regulation role type = 1.

approved flag = 1.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = *R0802010*, regulation role type = 1, start date = *2008-01-01*, end date = *2008-12-31*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 12:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 13:

- Message 1: Insert an unstable prorogation regulation with regulation id = *R0802012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = 1, extended date = *2010-12-31*.

approved flag = 1.

Transaction 14:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0802010*, regulation role type = 1, extended date = *2009-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

approved flag = 1.

Transaction 15:

- Message 1: Update the stable prorogation regulation with regulation id = R0802012, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0802010, regulation role type = 1, extended date = 2012-12-11.

approved flag = 1.

Transaction 16:

- Message 1: Update the stable prorogation regulation with regulation id = R0802011, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0802010, regulation role type = 1, extended date = 2007-01-01.

approved flag = 1.

Expected output:

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.

Reply to transaction 7:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 9:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on regulation.id : VR-PRORACT-7: The prorogued regulation cannot be a draft regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 14:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-10: The new extension date must be greater than the effective end date of the pro-rogued regulation.

Reply to transaction 15:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 16:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-10: The new extension date must be greater than the effective end date of the pro-rogued regulation.

2.5.7. Test case dm_pror_stable_update: Update a stable prorogation regulation

Message: dm_pror_stable_update_01.xml

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

Content: Transaction 1:

- Message 1: Update the stable prorogation regulation with regulation id = R0800000, regulation role type = 5, approved flag = 1.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Transaction 2:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800001*, regulation role type = 1, extended date = *2009-04-01*.
- approved flag = 1.

Transaction 3:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800002*, regulation role type = 1, extended date = *2009-12-05*.
- approved flag = 1.

Transaction 4:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0803009*.

Transaction 5:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803008*, regulation role type = 5, approved flag = 1.

Transaction 6:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803008*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800004*, regulation role type = 1.
- approved flag = 1.

Transaction 7:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803014*, regulation role type = 5, approved flag = 1.

Transaction 8:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803014*, regulation role type = 5,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

approved flag = 0.

Transaction 9:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803015*, regulation role type = 5, approved flag = 1.

Transaction 10:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803015*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *C0802001*, regulation role type = 1.

approved flag = 1.

Transaction 11:

- Message 1: Insert a stable base regulation with regulation id = *R0803010*, regulation role type = 1, start date = *2008-01-01*, end date = *2008-12-31*, community code = 1, regulation group id = *GGA*, approved flag = 1.

Transaction 12:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2009-12-31*.

approved flag = 1.

Transaction 13:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0803012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2010-12-31*.

approved flag = 1.

Transaction 14:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2009-01-01*.

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

approved flag = 1.

Transaction 15:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803012*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2010-01-01*.

approved flag = 1.

Transaction 16:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2007-01-01*.

approved flag = 1.

Transaction 17:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2010-01-01*.

approved flag = 1.

Transaction 18:

- Message 1: Update the stable prorogation regulation with regulation id = *R0803011*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803010*, regulation role type = 1, extended date = *2009-12-01*.

approved flag = 1.

Transaction 19:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0802008*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0803008*, regulation role type = 1,

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

extended date = 2011-01-01.

approved flag = 1.

Transaction 20:

- Message 1: Update the stable prorogation regulation with regulation id = R0802008, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0803008, regulation role type = 1, extended date = 2010-05-01.
- approved flag = 1.

Transaction 21:

- Message 1: Update the stable prorogation regulation with regulation id = R0802008, regulation role type = 5:
 - prorogation regulation action 1: regulation id = R0803008, regulation role type = 1, extended date = 2009-05-01.
- approved flag = 1.

Transaction 22:

- Message 1: Request the base regulation with query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = R0803008.
- Message 2: Request the modification regulation with query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = R0803008.
-

Transaction 23:

- Message 1: Insert a stable prorogation regulation with regulation id = R0802009, regulation role type = 5:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- prorogation regulation action 1: regulation id = *R0803009*, regulation role type = *1*, extended date = *2011-01-01*.

approved flag = *1*.

Transaction 24:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802009*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0803009*, regulation role type = *1*, extended date = *2010-05-01*.

approved flag = *1*.

Transaction 25:

- Message 1: Update the stable prorogation regulation with regulation id = *R0802009*, regulation role type = *5*:
 - prorogation regulation action 1: regulation id = *R0803009*, regulation role type = *1*, extended date = *2009-03-01*.

approved flag = *1*.

Transaction 26:

- Message 1: Request the base regulation with query space field = *BASE REGULATION.BASE REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0803009*.
- Message 2: Request the modification regulation with query space field = *MODIFICATION REGULATION.MODIFICATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = *=*, constant = *R0803009*.

Expected output:

Reply to transaction 1:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

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

Reply to transaction 2:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 3:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 6:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-1: The prorogued (extended) regulation must refer to an existing regulation.

Reply to transaction 7:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 8:

- Message 1, on regulation.id : VR-ROL-7: A role-regulation can only be modified from unapproved to approved, not the other way around.

Reply to transaction 9:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 10:

- Message 1, on regulation.id : VR-PRORACT-7: The prorogued regulation cannot be a draft regulation.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-4: Only base and modification regulations with an explicit end date (not open-ended) can be prorogued.

Reply to transaction 11:

- Message 1, on base.regulation.ref : OK.

Reply to transaction 12:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 13:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 14:

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-11: When changing the last extension date in the chain, the new date must be greater than the next to last extension date.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-12: If the extension date is not the last in the chain, it must be greater than the end date of the extended regulation, different to other intermediate extension dates and less than the last extension date in the chain.

Reply to transaction 15:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-12: If the extension date is not the last in the chain, it must be greater than the end date of the extended regulation, different to other intermediate extension dates and less than the last extension date in the chain.

Reply to transaction 16:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-11: When changing the last extension date in the chain, the new date must be greater than the next to last extension date.
- Message 1, on prorogation.regulation.action.list : VR-PRORACT-12: If the extension date is not the last in the chain, it must be greater than the end date of the extended regulation, different to other intermediate extension dates and less than the last extension date in the chain.

Reply to transaction 17:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-12: If the extension date is not the last in the chain, it must be greater than the end date of the extended regulation, different to other intermediate extension dates and less than the last extension date in the chain.

Reply to transaction 18:

- Message 1, on prorogation.regulation.action.list : VR-PRORACT-11: When changing the last extension date in the chain, the new date must be greater than the next to last extension date.
- Message 1, on prorogation.regulation.action.list : VR-

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

PRORACT-12: If the extension date is not the last in the chain, it must be greater than the end date of the extended regulation, different to other intermediate extension dates and less than the last extension date in the chain.

Reply to transaction 19:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 20:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 21:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 22:

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

Reply to transaction 23:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 24:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 25:

- Message 1, on base.regulation.ref : VR-BAS-13: The validity period of the base regulation must always span the validity period of all stable modification regulations having an explicit end date or which have been abrogated.

Reply to transaction 26:

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

2.5.8. Test case dm_pror_stable_delete: Delete a stable prorogation regulation.

Message: dm_pror_stable_delete_01.xml

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

Content:

Transaction 1:

- Message 1: Insert a stable prorogation regulation with regulation id = *R0802009*, regulation role type = 5:
 - prorogation regulation action 1: regulation id = *R0800001*, regulation role type = 1, extended date = *2009-12-30*.
- approved flag = 1.

Transaction 2:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 3:

- Message 1: Delete the prorogation regulation with regulation id = *R0802009*, regulation role type = 5.

Transaction 4:

- Message 1: Request the prorogation regulation with query space field = *PROROGATION REGULATION.PROROGATION REGULATION REF.LEGAL REGULATION REF.Regulation id*, operator = =, constant = *R0802009*.

Transaction 5:

- Message 1: Delete the prorogation regulation with regulation id = *R0802009*, regulation role type = 5.

Expected output:

Reply to transaction 1:

- Message 1, on prorogation.regulation.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.id : OK.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
DATA MAINTENANCE	Ref: TARIC3-STP
PROROGATION REGULATION	

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
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_ng_insert	Status
Message id	dm_ref_ng_insert_setup_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
Message id	dm_ref_ng_insert_01.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
Message id	dm_ref_ng_insert_02.xml	Status
Transaction id	Status	Comment
	1	
	2	
	3	
	4	
	5	
Message id	dm_ref_ng_insert_03.xml	Status
Transaction id	Status	Comment
	1	

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 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 2
- 3
- 4
- 5
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- 7
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- 11
- 12
- 13
- 14

Message id	dm_ref_ng_insert_04.xml	Status
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Transaction id	Status	Comment
1		
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19		

Test case id	dm_ref_ng_update	Status
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Message id	dm_ref_ng_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_ref_ng_update_setup_02.xml	Status
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Transaction id	Status	Comment
1		
2		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

3
4
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9

Message id	dm_ref_ng_update_01.xml	Status
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Transaction id	Status	Comment
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1
2
3
4
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7

Message id	dm_ref_ng_update_02.xml	Status
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Transaction id	Status	Comment
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1
2
3
4
5
6

Message id	dm_ref_ng_update_03.xml	Status
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Transaction id	Status	Comment
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1
2
3
4
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6

Message id	dm_ref_ng_update_04.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

15

16

Message id	dm_ref_ng_update_05.xml	Status
Transaction id	Status	Comment
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7		
8		
9		
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27		

Message id	dm_ref_ng_update_06.xml	Status
Transaction id	Status	Comment
1		
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15		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

16
17
18
19
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21

Test case id	dm_ref_ng_delete	Status
Message id	dm_ref_ng_delete_setup_01.xml	Status

Transaction id	Status	Comment
1		
2		
3		
4		

Message id	dm_ref_ng_delete_01.xml	Status
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Transaction id	Status	Comment
1		
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5		
6		

Test case id	dm_reg_insert	Status
Message id	dm_reg_insert_01.xml	Status

Transaction id	Status	Comment
1		
2		
3		
4		
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Message id	dm_reg_insert_02.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		

Message id	dm_reg_insert_03.xml	Status
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Transaction id	Status	Comment
1		
2		
3		

Message id	dm_reg_insert_04.xml	Status
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Transaction id	Status	Comment
1		
2		
3		

Test case id	dm_reg_update	Status
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Message id	dm_reg_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

2

Message id	dm_reg_update_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_reg_update_02.xml	Status
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Transaction id	Status	Comment
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Message id	dm_reg_update_03.xml	Status
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Transaction id	Status	Comment
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Message id	dm_reg_update_04.xml	Status
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Transaction id	Status	Comment
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Message id	dm_reg_update_05.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_reg_delete	Status
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Message id	dm_reg_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_reg_delete_01.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_bas_insert	Status
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Message id	dm_bas_setup_01.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 1
- 2
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Message id	dm_bas_insert_01.xml	Status
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Transaction id	Status	Comment
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- 1
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Message id	dm_bas_insert_02.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_bas_update	Status
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Message id	dm_bas_update_setup_01.xml	Status
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Transaction id	Status	Comment
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- 1
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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_bas_update_01.xml	Status
Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

8

Message id	dm_bas_update_02.xml	Status
Transaction id	Status	Comment
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Message id	dm_bas_update_03.xml	Status
Transaction id	Status	Comment
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Test case id	dm_bas_delete	Status
Message id	dm_bas_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_bas_delete_01.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_pror_unstable_insert	Status
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Message id	dm_pror_unstable_insert.xml	Status
Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Test case id	dm_pror_unstable_update	Status
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Message id	dm_pror_unstable_update_01.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_pror_unstable_delete	Status
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Message id	dm_pror_unstable_delete_01.xml	Status
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Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Test case id	dm_pror_stable_insert	Status
Message id	dm_pror_stable_insert.xml	Status

Transaction id	Status	Comment
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Test case id	dm_pror_unstable_stable_update	Status
Message id	dm_pror_unstable_stable_update_01.xml	Status

Transaction id	Status	Comment
1		

DG TAXUD – TARIC3-STP – System Test Plan - Part 4	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 2
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Test case id	dm_pror_stable_update	Status
Message id	dm_pror_stable_update_01.xml	Status

Transaction id	Status	Comment
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Test case id	dm_pror_stable_delete	Status
Message id	dm_pror_stable_delete_01.xml	Status

Transaction id	Status	Comment
1		
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