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<p><b>SUBJECT:</b></p> <p><b>TARIC3-STP</b></p> <p><b>System Test Plan - Part 6</b></p>		

DOCUMENT HISTORY

EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
0	10	19/08/2008	Submitted for review to DG TAXUD.	Insert	All
1	00	12/09/2008	Submitted for acceptance to DG TAXUD.	Update	Some
1	10	05/06/2009	Split up document.  Modified test cases to correspond with process model.  Added test cases.  Submitted for review to DG TAXUD.	Update	All
-	-	16/07/2009	Submitted for acceptance to DG TAXUD.	Update	Some
1	11	01/12/2009	Additional test cases	Update	As requested
1	20	16/04/2010	Additional test cases.  Modified test cases due to bug fixes.  Submitted for review to DG TAXUD.	Update	§2.1.3 (input + expected output), §2.1.6 (expected output), §2.1.7 (expected output), §2.3.2, §2.3.3, §2.3.4
2	00	18/05/2010	Sent for Acceptance.	Update	As requested
2	01	29/10/2010	Sent for Internal Review	Update	2.1.1, 2.2.1, 2.2.4, 2.2.5,

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EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
2	10	29/10/2010	Sent for Review to DG TAXUD	-	-
3	00	18/11/2010	Sent for Acceptance to DG TAXUD	-	-
3	10	18/05/2011	Submitted for Review to Taxation and Customs Union DG.	Update	As Required
3	20	27/05/2011	Implemented comments from DG TAXUD and QAC.  Submitted for Acceptance to Taxation and Customs Union DG.	Update	As Required

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## 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:

- Goods Nomenclature;
- Certificate;
- Measure action code;
- Measure condition code;
- Measure type series.

### 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
VAT	Value-Added Tax

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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

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## 2. DATA MAINTENANCE

### 2.1. Goods Nomenclature

#### 2.1.1. Test case `init_ref_goods_nomenclature_setup`: Insertion of Goods nomenclature reference data

**Message:** `init_ref_goods_nomenclature_setup.xml`

**Precondition:** First, make sure the database is empty.

**Content:** The message is composed of the following transactions:

##### Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:
- Message 2: Insert a stable language with language id = *FR*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description of fr*.
- Message 3: Insert a stable language with language id = *NL*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description of nl*.
  - description 2: language id = *FR*, description = *Description francaise nl*.

##### Transaction 2:

- Message 1: Insert a stable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *1980-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

nomenclature group facility code = *0*.

##### Transaction 3:

- Message 1: Insert a stable footnote type with footnote type id = *ANC*, start date = *1980-01-01*:

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

application code = 1.

- Message 2: Insert a stable footnote type with footnote type id = *ATN*, start date = *1980-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 2.

Transaction 4:

- Message 1: Insert an unstable footnote with footnote type id = *ANC*, footnote id = *66001*, start date = *1980-01-01*:
  - description period 1: start date = *1980-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert a stable footnote with footnote type id = *ATN*, footnote id = *77001*, start date = *1980-01-01*:
  - description period 1: start date = *1980-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 6:

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- Message 1: Insert a stable footnote type with footnote type id = *ACD*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 5.

Transaction 7:

- Message 1: Insert an unstable footnote with footnote type id = *ACD*, footnote id = *55001*, start date = *2007-01-01*:
  - description period 1: start date = *2007-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0600000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *600*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - description period 2: start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*,

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description = *Dutch Description*.

- indent 1: start date = 2008-01-01, indent number = 10.
- indent 2: start date = 2008-02-01, indent number = 20.

statistical indicator = 0.

Transaction 8bis:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 9100000000, productline suffix = 80, start date = 1960-01-01:
  - description period 1: start date = 1960-01-01:
    - 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: start date = 1960-01-01, indent number = 10.

statistical indicator = 0.

Transaction 9:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0651000000, productline suffix = 10, start date = 1970-01-01:
  - description period 1: start date = 1970-01-01:
    - 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: start date = 1970-01-01, indent number = 10.
  - derived goods nomenclature 1: goods nomenclature id = 9100000000, productline suffix = 80

statistical indicator = 0.

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#### Transaction 10:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2009-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.
  - indent 2: start date = 2009-02-01, indent number = 20.

statistical indicator = 0.

#### Transaction 11:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2016-01-01, goods nomenclature sid = 66:
  - description period 1: start date = 2016-01-01:
    - 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: start date = 2016-01-01, indent number

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= 10.

- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2000-01-01, associated footnote sid = 100, end date = 2010-01-01.

statistical indicator = 0.

Transaction 12:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0618000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 618:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 0.

Transaction 13:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2009-01-01*, indent number = *10*.

goods nomenclature id = *0618000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 14:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0620000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *602*, end date = *2008-12-31*:

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

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

goods nomenclature id = *0610000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 15:

- Message 1: Insert an unstable nomenclature group with nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *1980-01-01*:

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

- description 2: language id = *FR*, description =

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*French Description.*

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

nomenclature group facility code = 0.

Transaction 16:

- Message 1: Insert an unstable footnote with footnote type id = *ATN*, footnote id = 77002, start date = 1980-01-01:
  - description period 1: start date = 1980-01-01:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 17:

- Message 1: Insert a stable footnote with footnote type id = *ACD*, footnote id = 55002, start date = 2007-01-01:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 18:

- Message 1: Insert a stable footnote with footnote type id = *ANC*, footnote id = 66002, start date = 1980-01-01:
  - description period 1: start date = 1980-01-01:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 19:

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

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120045, start date = 2010-01-01:

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

nomenclature group facility code = 0.

Transaction 20:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0633000000, productline suffix = 80, start date = 2008-01-01, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.
 

goods nomenclature id = 0651000000,  
productline suffix = 10.

goods nomenclature id = 0610000000,  
productline suffix = 80.

statistical indicator = 0.

Transaction 21:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0633000000, productline suffix = 80, start date = 2008-07-01, goods nomenclature sid = 1103, end date = 2010-12-31:
  - description period 1: start date = 2008-07-01:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.

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- description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2008-07-01*, indent number = *10*.  
goods nomenclature id = *0610000000*, productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 22:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0640000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1400*, end date = *2008-12-31*:
  - 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0610000000*, productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 23:

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

application code = *0*.

#### Transaction 24:

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- Message 1: Insert a stable footnote with footnote type id = *ATN*, footnote id = *55002*, start date = *2020-01-01*:
  - description period 1: start date = *2020-01-01*:
    - 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 25:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0645000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1455*:
  - 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: start date = *2008-01-01*, indent number = *10*.
  - associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *2008-01-01*, associated footnote sid = *545*, end date = *2008-12-31*.

statistical indicator = *0*.

Transaction 26:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0617000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *617*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.

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- description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.
  - nomenclature group membership 1: nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *2008-01-01*, end date = *2008-12-31*.

statistical indicator = *0*.

Transaction 27:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0644000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *6044*:
  - 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.

statistical indicator = *0*.

Transaction 28:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0644000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *010*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*, end date = *2008-12-31*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.

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- description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.

Transaction 29:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0657000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *6057*, end date = *2008-12-31*:
  - 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: start date = *2008-01-01*, indent number = *10*.
    - goods nomenclature id = *0651000000*, productline suffix = *10*.
    - goods nomenclature id = *0610000000*, productline suffix = *80*.

statistical indicator = *0*.

Transaction 30:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0657000000*, productline suffix = *80*, start date = *2009-01-01*, goods nomenclature sid = *6157*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.

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goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

#### Transaction 31:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0637000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1375:

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

goods nomenclature id = 0651000000,  
productline suffix = 10.

- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01, associated footnote sid = 1375, end date = 2008-12-31.

statistical indicator = 0.

#### Transaction 32:

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

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

measure type combination = 0.

#### Transaction 33:

- Message 1: Insert a stable regulation group with regulation group id = GGA, start date = 1970-01-01:

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

Transaction 34:

- Message 1: Insert an unstable measure type with measure type id = *001000*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GGA*.

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

Transaction 35:

- Message 1: Insert a stable country group with country group id = *1000*, start date = *1970-01-01*, area code = *1*:
  - description period 1: start date = *1970-01-01*:
    - description 1: language id = *EN*, description = *English description country group.*
    - description 2: language id = *FR*, description = *French description country group.*
    - description 3: language id = *NL*, description = *Dutch description country group.*

Transaction 36:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *1970-01-01*, official journal number = *01*, official journal page = *01*, information text = *01*.

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Transaction 37:

- Message 1: Insert a stable regulation role type with regulation role type id = 1, start date = 1970-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 38:

- 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.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

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Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Reply to transaction 23: Status ok.

Reply to transaction 24: Status ok.

Reply to transaction 25: Status ok.

Reply to transaction 26: Status ok.

Reply to transaction 27: Status ok.

Reply to transaction 28: Status ok.

Reply to transaction 29: Status ok.

Reply to transaction 30: Status ok.

Reply to transaction 31: Status ok.

Reply to transaction 32: Status ok.

Reply to transaction 33: Status ok.

Reply to transaction 34: Status ok.

Reply to transaction 35: Status ok.

Reply to transaction 36: Status ok.

Reply to transaction 37: Status ok.

Reply to transaction 38: Status ok.

### 2.1.2. Test case **dm\_nig\_unstable\_insert**: Insertion of an unstable goods nomenclature

**Message:** dm\_nig\_unstable\_insert\_01.xml

**Precondition:** Make sure the database is empty, then load the testing reference data in the system. For this purpose, *init\_ref\_goods\_nomenclature\_setup.xml* should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0200000000, productline suffix

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= 80, start date = 2008-01-01:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- description period 2: start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2008-01-01, indent number = 10.
- indent 2: start date = 2008-02-01, indent number = 20.
- nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01.
- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.
- associated footnote 2: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 2:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.LOGICAL KEY.Goods nomenclature id*, operator = =, constant = 0200000000.

Transaction 3:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:

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- description 1: language id = *EN*,  
description = *English Description*.
- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- description period 2: start date = *2008-02-01*:
  - description 1: language id = *EN*,  
description = *English Description*.
  - description 2: language id = *FR*,  
description = *French Description*.
  - description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.
- indent 2: start date = *2008-02-01*, indent number = *20*.
- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-01-01*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 4:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0211000000*, productline suffix = *80*:
  - description period 1:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent number = *10*.

statistical indicator = *0*.

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#### Transaction 5:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 020000, productline suffix = 80L, start date = 5/9/2008:
  - 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: start date = 2008-01-01, indent number = 10.  
statistical indicator = L.

#### Transaction 6:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-05-01, end date = 2008-04-01:
  - description period 1: start date = 2009-05-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-05-01, indent number = 10.  
goods nomenclature id = 0200000000,  
productline suffix = 80.  
statistical indicator = 0.

#### Transaction 7:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, start date = 2008-02-01:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2008-02-01*, indent number = *1*.

goods nomenclature id = *0200000000*,  
productline suffix = *80*, start date = *2008-02-01*.

statistical indicator = *0*.

#### Transaction 8:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*:

- description period 1:

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

- indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

#### Transaction 9:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, start date = *2009-01-01*:

- description period 1: start date = *2009-02-01*:

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

- indent 1: start date = *2009-01-01*, indent number

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= 1.

statistical indicator = 0.

Transaction 10:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 1.

statistical indicator = 0.

Transaction 11:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
  - indent 1: start date = 2009-01-01, indent number = 1.

statistical indicator = 0.

Transaction 12:

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- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 1.  
 statistical indicator = 0.

Transaction 13:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 1.
  - indent 2: start date = 2009-01-01, indent number = 1.  
 statistical indicator = 0.

Transaction 14:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2007-01-01:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR,

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description = *French Description*.

- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2007-01-01*, indent number = *1*.  
goods nomenclature id = *0101000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 15:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *1*.  
goods nomenclature id = *0101000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 16:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2007-01-01*, end date = *2007-12-31*:
  - description period 1: start date = *2007-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

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- indent 1: start date = 2007-01-01, indent number = 1.  
goods nomenclature id = 0200000000,  
productline suffix = 80.

statistical indicator = 0.

Transaction 17:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0400000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000000, start date = 2008-01-01.

statistical indicator = 0.

Transaction 18:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0300000001, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature

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group id = 000001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 19:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0400000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 20:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - associated footnote 1: footnote type id = ANC, footnote id = 99999, start date = 2008-01-01, end date = 2007-01-01.

statistical indicator = 0.

Transaction 21:

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- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - associated footnote 1: footnote type id = ACD, footnote id = 55001.

statistical indicator = 0.

Transaction 22:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0200000001, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001.

statistical indicator = 0.

Transaction 23:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2008-01-01*, indent number = *1*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *55001*, start date = *2008-01-01*, end date = *2007-01-01*.

statistical indicator = *0*.

#### Transaction 24:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : VR-NIG-1: The combination of goods code, product line suffix and start date must be unique in the universe of the stable and unstable data.

#### Reply to transaction 4:

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

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Reply to transaction 5:

- Message 1, on goods.nomenclature.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on productline.suffix : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on statistical.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

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 goods.nomenclature.ref : OK.

Reply to transaction 8:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 9:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 10:

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

Reply to transaction 11:

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

Reply to transaction 12:

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

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 14:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-36: The "derived from" code must be a goods nomenclature that exists.

Reply to transaction 15:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-38: The "absorbed by" code must be a goods

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nomenclature that exists.

Reply to transaction 16:

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

Reply to transaction 17:

- Message 1, on nomenclature.group.ref : VR-NIG-45: The referenced nomenclature group must exist.

Reply to transaction 18:

- 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 19:

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

Reply to transaction 20:

- 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 21:

- Message 1, on footnote.type.id : VR-NIG-58: The referenced footnote must have a footnote type for which the application type is 'TARIC nomenclature' or 'CN nomenclature'.

Reply to transaction 22:

- Message 1, on footnote.type.id : VR-NIG-59: Footnotes with a footnote type for which the application type is 'CN nomenclature' must be linked to CN code. A goods nomenclature is a CN code if its goods code ends with '00'. Footnotes with a footnote type for which the application type is 'TARIC nomenclature' can be associated at any level.

Reply to transaction 23:

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

Reply to transaction 24:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods nomenclature is mandatory.

**Message:** **dm\_nig\_unstable\_insert\_02.xml**

**Precondition:** Make sure the *dm\_nig\_unstable\_insert\_01.xml* message have been successfully processed.

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**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000.*
    - description 2: language id = FR, description = *-French Description of 0500000000.*
    - description 3: language id = NL, description = *Dutch Description of 0500000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

**Transaction 2:**

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000.*
    - description 2: language id = FR, description = *"French Description "of 0500000000".*
    - description 3: language id = NL, description = *Dutch Description of 0500000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

**Transaction 3:**

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix

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= 80, start date = 2008-01-01:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 0500000000*.
  - description 2: language id = FR, description = *French Description of 0500000000*.
  - description 3: language id = FR, description = *Second French Description of 0500000000*.
  - description 4: language id = NL, description = *Dutch Description of 0500000000*.
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 4:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000*.
    - description 2: language id = FR, description = *French Description of 0500000000*.
    - description 3: language id = XX, description = *Description of 0500000000 in a non existing language*.
    - description 4: language id = NL, description = *Dutch Description of 0500000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 5:

- Message 1: Insert an unstable goods nomenclature with

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goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English/ Description of 0500000000.*
  - description 2: language id = FR, description = *French Description of 0500000000.*
  - description 3: language id = NL, description = *Dutch Description of 0500000000.*
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000.*
    - description 2: language id = FR, description = *French Description of 0500000000.*
    - description 3: language id = NL, description = *Dutch Description of 0500000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 7:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg. Description of*

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0500000000.

- description 2: language id = *FR*,  
description = *French kg Description of 0500000000.*
- description 3: language id = *NL*,  
description = *Dutch kg; Description of 0500000000.*

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

statistical indicator = *0*.

Transaction 8:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*:

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

- description 1: language id = *EN*,  
description = *English Description kg: of 0500000000.*
- description 2: language id = *FR*,  
description = *French kg, Description of 0500000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*

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

statistical indicator = *0*.

Transaction 9:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-02*:

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

- description 1: language id = *EN*,  
description = *English Description of 0500000000.*
- description 2: language id = *FR*,  
description = *French Description of 0500000000.*
- description 3: language id = *NL*,

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description = *Dutch Description of 0500000000*.

- indent 1: start date = 2008-01-02, indent number = 10.

goods nomenclature id = 0400000000, productline suffix = 80, goods nomenclature id = 0400000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 10:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2000-01-01, end date = 2007-12-31:

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

- description 1: language id = EN, description = *English Description of 0500000000*.
- description 2: language id = FR, description = *French Description of 0500000000*.
- description 3: language id = NL, description = *Dutch Description of 0500000000*.

- indent 1: start date = 2000-01-01, indent number = 10.

goods nomenclature id = 0400000000, productline suffix = 80, goods nomenclature id = 0400000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 11:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2000-01-01:

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

- description 1: language id = EN, description = *English Description of 0500000000*.
- description 2: language id = FR,

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description = *French Description of 0500000000*.

- description 3: language id = *NL*, description = *Dutch Description of 0500000000*.

- indent 1: start date = *2000-01-01*, indent number = *10*.
- nomenclature group membership 1: nomenclature group type id = *Z*, nomenclature group id = *100721*, start date = *2000-01-01*, end date = *2008-01-01*.

statistical indicator = *0*.

Transaction 12:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2000-01-01*, end date = *2009-12-31*:

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

- description 1: language id = *EN*, description = *English Description of 0500000000*.
- description 2: language id = *FR*, description = *French Description of 0500000000*.
- description 3: language id = *NL*, description = *Dutch Description of 0500000000*.

- indent 1: start date = *2000-01-01*, indent number = *10*.

goods nomenclature id = *0600000000*, productline suffix = *80*.

statistical indicator = *0*.

Transaction 13:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.LOGICAL KEY.Goods nomenclature id*, operator = *=*, constant = *0500000000*.

Transaction 14:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0501000000*, productline suffix

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= 80, start date = 2021-01-01:

- description period 1: start date = 2021-01-01:
  - description 1: language id = EN, description = *English Description of 0501000000*.
  - description 2: language id = FR, description = *French Description of 0501000000*.
  - description 3: language id = NL, description = *Dutch Description of 0501000000*.
- indent 1: start date = 2021-01-01, indent number = 10.  
goods nomenclature id = 0600000000, productline suffix = 80.

statistical indicator = 0.

Transaction 15:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.LOGICAL KEY.Goods nomenclature id*, operator = =, constant = *0501000000*.

Transaction 16:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0508000000*, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0508000000*.
    - description 2: language id = FR, description = *French Description of 0508000000*.
    - description 3: language id = NL, description = *Dutch Description of 0508000000*.
  - description period 2: start date = 2008-01-01:
    - description 1: language id = EN, description = *Second English*

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*Description of 0508000000.*

- description 2: language id = *FR*,  
description = *Second French Description of 0508000000.*
- description 3: language id = *NL*,  
description = *Second Dutch Description of 0508000000.*

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

statistical indicator = *0*.

Transaction 17:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0502010000*, productline suffix = *80*, start date = *2008-01-01*:

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

- description 1: language id = *EN*,  
description = *English Description of 0502010000.*
- description 2: language id = *FR*,  
description = *French Description of 0502010000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0502010000.*

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

statistical indicator = *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-7: At a given moment, there is at most one description in a given language.

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Reply to transaction 4:

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

Reply to transaction 5:

- 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 6:

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

Reply to transaction 7:

- 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 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.

Reply to transaction 9:

- Message 1, on logical.key : VR-NIG-68: No two "Derived from" code can have the same goods code and product line suffix.

Reply to transaction 10:

- Message 1, on logical.key : VR-NIG-69: No two "Absorbed by" code can have the same goods code and product line suffix.

Reply to transaction 11:

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- Message 1, on nomenclature.group.ref : VR-NIG-45: The referenced nomenclature group must exist.

Reply to transaction 12:

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

Reply to transaction 13:

- Message 1 : OK.

Reply to transaction 14:

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

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 17:

- Message 1, on goods.nomenclature.ref : VR-NIG-74: A goods nomenclature, different from a chapter, must have a parent code. Exception is made for the goods nomenclature lines known as intermediate lines.

### 2.1.3. Test case **dm\_nig\_unstable\_update**: Update an unstable goods nomenclature

**Message:** dm\_nig\_unstable\_update\_01.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01, description period sid = 1:
    - description 1: language id = EN, description = *English Description*.

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- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *10*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 2:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0900000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *50*:
  - description period 1: start date = *2008-01-01*,  
description period sid = *198*:
    - 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 = *14*, start date = *2008-01-01*,  
indent number = *10*.

statistical indicator = *0*.

Transaction 3:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2008/Jan*, goods nomenclature sid = *-1*:
  - description period 1: start date = *2008/31/01*:
    - description 1: language id = *EN1*,  
description = *English Description*.
    - description 2: language id = *fr*,  
description = *French Description*.
    - description 3: language id = *NÃ§*,  
description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *31-2008-01*,

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indent number = 10.

- associated footnote 1: footnote type id = AN, footnote id = 66001, start date = 2008/01/01.

statistical indicator = A.

Transaction 4:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11, end date = 2007-01-01:
  - description period 1: start date = 2008-01-01, description period sid = 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0610000000, productline suffix = 80.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 5:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01, description period sid = 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2007-01-01:

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- description 1: language id = *EN*,  
description = *English Description*.
- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *10*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 6:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2008-01-01*,  
description period sid = *1*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - description period 2: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *10*.
  - associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 7:

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- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2009-01-01, description period sid = 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 8:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01, description period sid = 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 30.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 9:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline

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suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:

- description period 1: start date = 2008-01-01, description period sid = 1:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: indent sid = 1, start date = 2009-01-01, indent number = 10.
- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 10:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01, description period sid = 1:
    - 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*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01, end date = 2006-01-01.

statistical indicator = 0.

Transaction 11:

- Message 1: Update the unstable goods nomenclature

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with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 11:

- description period 1: start date = 2009-01-01, description period sid = 1:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- description period 2: start date = 2010-01-01:
  - description 1: language id = EN, description = *English Description new*.
  - description 2: language id = FR, description = *French Description new*.
  - description 3: language id = NL, description = *Dutch Description new*.
- indent 1: start date = 2009-01-01, indent number = 10.

statistical indicator = 0.

#### Transaction 12:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 11.

#### Transaction 13:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2007-01-01, goods nomenclature sid = 12, end date = 2007-12-31:
  - description period 1: start date = 2007-01-01, description period sid = 2:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

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- indent 1: indent sid = 2, start date = 2007-01-01, indent number = 10.  
goods nomenclature id = 0610000000, productline suffix = 80.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01, end date = 2007-12-31.
- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01, end date = 2007-12-31.

statistical indicator = 0.

Transaction 14:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2007-01-01, goods nomenclature sid = 12, end date = 2008-12-30:
  - description period 1: start date = 2007-01-01, description period sid = 2:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2007-01-01, indent number = 10.  
goods nomenclature id = 0700000000, productline suffix = 80.
  - nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01, end date = 2007-12-31.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01, end date = 2007-12-31.

statistical indicator = 0.

Transaction 15:

- Message 1: Request the goods nomenclature with query

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space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*,  
operator = =, constant = 12.

Transaction 16:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2007-01-01, goods nomenclature sid = 12:
  - description period 1: start date = 2007-01-01, description period sid = 2:
    - description 1: language id = EN, description = *English Description updated T17*.
    - description 2: language id = FR, description = *French Description updated T17*.
    - description 3: language id = NL, description = *Dutch Description updated T17*.
  - indent 1: indent sid = 2, start date = 2007-01-01, indent number = 1.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01.

statistical indicator = 0.

Transaction 17:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 12.

**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 2:

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

Reply to transaction 3:

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- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on goods.nomenclature.sid : GEN-VALUE-LESS-THAN-LOWER-LIMIT-ERROR: Value is less than lower limit.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on statistical.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

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 goods.nomenclature.ref : OK.

Reply to transaction 6:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 7:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 8:

- Message 1, on indent.number : GEN-VALUE-GREATER-THAN-UPPER-LIMIT-ERROR: Value exceeds upper limit.

Reply to transaction 9:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods

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nomenclature is mandatory.

Reply to transaction 10:

- 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 11:

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

Reply to transaction 12:

- Message 1 : OK.

Reply to transaction 13:

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

Reply to transaction 14:

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

Reply to transaction 15:

- Message 1 : OK.

Reply to transaction 16:

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

Reply to transaction 17:

- Message 1 : OK.

**Message:** dm\_nig\_unstable\_update\_02.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, *init\_ref\_goods\_nomenclature\_setup.xml* should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*
    - description 2: language id = FR, description = *-French Description of 0605000000.*

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- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

statistical indicator = *0*.

Transaction 2:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000*.
- description 2: language id = *FR*,  
description = *"French Description of "0605000000"*.
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

statistical indicator = *0*.

Transaction 3:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000*.
- description 2: language id = *FR*,  
description = *French Description of 0605000000French Description of*

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0605000000French Description of  
0605000000.

- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

statistical indicator = *0*.

Transaction 4:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000*.
- description 2: language id = *FR*,  
description = *French Description of 0605000000*.
- description 3: language id = *FR*,  
description = *Second French Description of 0605000000*.
- description 4: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

statistical indicator = *0*.

Transaction 5:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline

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suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 0605000000*.
  - description 2: language id = FR, description = *French Description of 0605000000*.
  - description 3: language id = XX, description = *Description of 0605000000 in a non existing language*.
  - description 4: language id = NL, description = *Dutch Description of 0605000000*.
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English |Description of 0605000000*.
    - description 2: language id = FR, description = *French Description of 0605000000*.
    - description 3: language id = NL, description = *Dutch Description of 0605000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 7:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature

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sid = 65:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 0605000000*.
  - description 2: language id = FR, description = *French Description of 0605000000*.
  - description 3: language id = NL, description = *Dutch Description of 0605000000*.
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 8:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg. Description of 0605000000*.
    - description 2: language id = FR, description = *French kg Description of 0605000000*.
    - description 3: language id = NL, description = *Dutch kg; Description of 0605000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 9:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN,

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description = *English kg: Description of 0605000000.*

- description 2: language id = *FR*,  
description = *French kg, Description of 0605000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000.*

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

statistical indicator = *0*.

#### Transaction 10:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *66*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000.*
- description 2: language id = *FR*,  
description = *French Description of 0605000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000.*

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

statistical indicator = *0*.

#### Transaction 11:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0606000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000.*
- description 2: language id = *FR*,  
description = *French Description of*

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0605000000.

- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000.*

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

statistical indicator = *0*.

Transaction 12:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *10*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000.*
- description 2: language id = *FR*,  
description = *French Description of 0605000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000.*

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

statistical indicator = *0*.

Transaction 13:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2016-01-01*, goods nomenclature sid = *66*:

- description period 1: start date = *2016-01-01*:

- 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: start date = *2016-01-01*, indent number

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= 10.

- associated footnote 1: footnote type id = *ATN*, footnote id = 77001, start date = 2000-01-01, associated footnote sid = 100, end date = 2010-01-01.

statistical indicator = 0.

Transaction 14:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*, description = *English Description of 9023110890*.
    - description 2: language id = *FR*, description = *French Description of 9023110890*.
    - description 3: language id = *NL*, description = *Dutch Description of 9023110890*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - indent 2: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 15:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*, description = *English Description of 6688224455*.
    - description 2: language id = *FR*, description = *French Description of 6688224455*.
    - description 3: language id = *NL*, description = *Dutch Description of*

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6688224455.

- indent 1: start date = 2008-01-01, indent number = 10.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2000-01-01.
- nomenclature group membership 2:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2000-01-01.

statistical indicator = 0.

Transaction 16:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000*.
    - description 2: language id = FR, description = *French Description of 0605000000*.
    - description 3: language id = NL, description = *Dutch Description of 0605000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01, associated footnote sid = 1, end date = 2010-01-01.
  - associated footnote 2: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01, associated footnote sid = 1, end date = 2010-01-01.

statistical indicator = 0.

Transaction 17:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature

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sid = 65:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 8877100000.*
  - description 2: language id = FR, description = *French Description of 8877100000.*
  - description 3: language id = NL, description = *Dutch Description of 8877100000.*
- indent 1: start date = 2008-01-01, indent number = 10.
- nomenclature group membership 1: nomenclature group type id = Z, nomenclature group id = 177054, start date = 2008-01-01, end date = 2009-01-01.

statistical indicator = 0.

Transaction 18:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description.*
    - description 3: language id = NL, description = *Dutch Description.*
  - description period 2: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description.*
    - description 3: language id = NL, description = *Dutch Description.*
  - indent 1: start date = 2008-01-01, indent number

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= 10.

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

statistical indicator = 0.

Transaction 19:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65, end date = 2009-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*
    - description 2: language id = FR, description = *French Description of 0605000000.*
    - description 3: language id = NL, description = *Dutch Description of 0605000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0600000000, productline suffix = 80, goods nomenclature sid = 24.

statistical indicator = 0.

Transaction 20:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 65.

Transaction 21:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*

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- description 2: language id = *FR*, description = *French Description of 0605000000*.
- description 3: language id = *NL*, description = *Dutch Description of 0605000000*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*, productline suffix = *80*.
- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-01-01*, end date = *2009-01-01*.

statistical indicator = *0*.

Transaction 22:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = *=*, constant = *65*.

Transaction 23:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0605000000*.
    - description 2: language id = *FR*, description = *French Description of 0605000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0605000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.

statistical indicator = *0*.

Transaction 24:

- Message 1: Request the goods nomenclature with query

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space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*,  
operator = =, constant = 65.

Transaction 25:

- Message 1: Request the nomenclature group with operator = *AND*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = *X*, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = *000001*.

Transaction 26:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
    - description period 1: start date = *2008-01-01*:
      - description 1: language id = *EN*, description = *English Description of 0605000000*.
      - description 2: language id = *FR*, description = *French Description of 0605000000*.
      - description 3: language id = *NL*, description = *Dutch Description of 0605000000*.
    - indent 1: start date = *2008-01-01*, indent number = *10*.
    - nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2000-01-01*, end date = *2020-01-01*.
- statistical indicator = *0*.

Transaction 27:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0605000000*.

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- description 2: language id = *FR*,  
description = *French Description of 0605000000*.
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

statistical indicator = *0*.

Transaction 28:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

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

- description 1: language id = *EN*,  
description = *English Description of 0605000000*.
- description 2: language id = *FR*,  
description = *French Description of 0605000000*.
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.

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

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

statistical indicator = *0*.

Transaction 29:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:

- description period 1: start date = *2006-01-01*:

- description 1: language id = *EN*,  
description = *English Description of 0605000000*.
- description 2: language id = *FR*,

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description = *French Description of 0605000000*.

- description 3: language id = *NL*, description = *Dutch Description of 0605000000*.

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

statistical indicator = *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 goods.nomenclature.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

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.

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- 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 goods.nomenclature.ref : VR-NIG-1: The combination of goods code, product line suffix and start date must be unique in the universe of the stable and unstable data.

Reply to transaction 11:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 12:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 13:

- Message 1, on logical.key : VR-NIG-62: The footnote reference cannot be updated.

Reply to transaction 14:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 15:

- Message 1, on nomenclature.group.membership.ref : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Reply to transaction 16:

- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Reply to transaction 17:

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- Message 1, on nomenclature.group.ref : VR-NIG-45: The referenced nomenclature group must exist.

Reply to transaction 18:

- 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 19:

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

Reply to transaction 20:

- Message 1 : OK.

Reply to transaction 21:

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

Reply to transaction 22:

- Message 1 : OK.

Reply to transaction 23:

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

Reply to transaction 24:

- Message 1 : OK.

Reply to transaction 25:

- Message 1 : OK.

Reply to transaction 26:

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

Reply to transaction 27:

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

Reply to transaction 28:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 29:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

**Message:** dm\_nig\_unstable\_update\_03.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

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**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2007-01-01*, goods nomenclature sid = *80*, statistical indicator = *0*.
  - description period 1: start date = *2007-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2007-01-01*, indent number = *10*.
  - associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *2007-01-01*.

**Transaction 2:**

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0700100000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *81*, statistical indicator = *0*.
  - 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: start date = *2008-01-01*, indent number = *10*.
  - derived from goods code.

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- goods nomenclature id = 700000000
- productline suffix = 80.

#### Transaction 3:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0710000000*, productline suffix = *80*, start date = *2009-01-01*, statistical indicator = *0*.
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.
  - derived from goods code.
    - goods nomenclature id = 700000000
    - productline suffix = 80.

#### Transaction 4:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0700100000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *81*, end date = *2009-01-01*, statistical indicator = *0*.
  - 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*.

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- indent 1: start date = *2008-01-01*, indent number = *10*.
- derived from goods code.
  - goods nomenclature id = *700000000*
  - productline suffix = *80*.
- absorbed by goods code.
  - goods nomenclature id = *700000000*
  - productline suffix = *80*.

#### Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0710000000*, productline suffix = *80*, start date = *2009-01-01*, statistical indicator = *0*.
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.
  - derived from goods code.
    - goods nomenclature id = *700000000*
    - productline suffix = *80*.

#### Transaction 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0710000000*, productline suffix = *80*, start date = *2010-01-01*, goods nomenclature sid = *82*, statistical indicator = *0*.

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- description period 1: start date = *2010-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
- indent 1: start date = *2010-01-01*, indent number = *10*.
- derived from goods code.
  - goods nomenclature id = *700000000*
  - productline suffix = *80*.

Transaction 7:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0700100000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *81*, statistical indicator = *0*.
  - 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: start date = *2008-01-01*, indent number = *10*.
  - derived from goods code.
    - goods nomenclature id = *700000000*
    - productline suffix = *80*.

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**Expected output:**

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

Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : VR-NIG-6: A goods nomenclature code must not have inferior goods codes which subdivide the given code at two different levels at the same time. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 4:

- Message 1 : OK.

Reply to transaction 5:

- Message 1, on goods.nomenclature.ref : VR-NIG-6: A goods nomenclature code must not have inferior goods codes which subdivide the given code at two different levels at the same time. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 6:

- Message 1 : OK.

Reply to transaction 7:

- Message 1, on goods.nomenclature.ref : VR-NIG-6: A goods nomenclature code must not have inferior goods codes which subdivide the given code at two different levels at the same time. Exception is made for the goods nomenclature lines known as intermediate lines.

**Message:**

**dm\_nig\_unstable\_update\_04.xml**

**Precondition:**

Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:**

The message is composed of the following transactions:

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#### Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2009-01-01*, statistical indicator = *0*.
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.

#### Transaction 2:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2008-01-01*, end date = *2008-12-31*, statistical indicator = *0*.
  - 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: start date = *2008-01-01*, indent number = *10*.
  - derived from goods code.
    - goods nomenclature id = *7000000000*
    - productline suffix = *80*.

#### Transaction 3:

- Message 1: Insert a stable goods nomenclature with

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goods nomenclature id = 0701000000, productline suffix = 80, start date = 2009-01-02, goods nomenclature sid = 81, statistical indicator = 0.

- description period 1: start date = 2009-01-02:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2009-01-02, indent number = 10.
- derived from goods code.
  - goods nomenclature id = 7000000000
  - productline suffix = 80.

Transaction 4:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2006-01-01, goods nomenclature sid = 81, statistical indicator = 0.
  - description period 1: start date = 2006-01-01:
    - 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: start date = 2006-01-01, indent number = 10.
  - derived from goods code.

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- goods nomenclature id = 700000000
- productline suffix = 80.

#### Transaction 5:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0701000000*, productline suffix = *80*, start date = *2009-06-01*, goods nomenclature sid = *81*, statistical indicator = *0*.
  - description period 1: start date = *2009-06-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-06-01*, indent number = *10*.
  - derived from goods code.
    - goods nomenclature id = 700000000
    - productline suffix = 80.

#### Transaction 6:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0701000000*, productline suffix = *80*, start date = *2008-01-02*, goods nomenclature sid = *81*, statistical indicator = *0*.
  - description period 1: start date = *2008-01-02*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

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- indent 1: start date = 2008-01-02, indent number = 10.
- derived from goods code.
  - goods nomenclature id = 700000000
  - productline suffix = 80.

Transaction 7:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2008-01-02, goods nomenclature sid = 81, end date = 2008-12-31, statistical indicator = 0.
  - description period 1: start date = 2008-01-02:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-02, indent number = 10.
  - derived from goods code.
    - goods nomenclature id = 700000000
    - productline suffix = 80.
  - absorbed by goods code.
    - goods nomenclature id = 700000000
    - productline suffix = 80.

**Expected output:**

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

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Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-66: The "derived from" code must be applicable the day before the start date of the goods nomenclature.
- Message 1, on goods.nomenclature.ref : VR-NIG-4 : The validity period of the goods nomenclature must be within (inclusive) the validity period of the product line above in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 5:

- Message 1 : OK.

Reply to transaction 6:

- Message 1, on goods.nomenclature.ref : VR-NIG-4: The validity period of the goods nomenclature must be within (inclusive) the validity period of the product line above in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 7:

- Message 1 : OK.

#### **2.1.4. Test case dm\_nig\_unstable\_delete: Deletion of an unstable goods nomenclature**

**Message:** dm\_nig\_unstable\_delete\_01.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:** The message is composed of the following transactions:

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### Transaction 1:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 195:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - indent 2: start date = 2008-02-01, indent number = 20.
  - associated footnote 1: footnote type id = ANC, footnote id = 66001.
  - associated footnote 2: footnote type id = ATN, footnote id = 77001.

statistical indicator = 0.

### Transaction 2:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 195.

### Transaction 3:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 195.

### Transaction 4:

- Message 1: Delete the goods nomenclature with goods

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nomenclature sid = 195.

Transaction 5:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 196:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = 001000, geographical area id = 1000, goods nomenclature id = 0800000000, productline suffix = 80, regulation id = R0801010, regulation role type = 1.

Transaction 7:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 196.

Transaction 8:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 197:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

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#### Transaction 9:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 45, end date = 2008-12-31:
  - 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: start date = 2008-01-01, indent number = 10.

#### Transaction 10:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 197.

#### Transaction 11:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0802000000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 198:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-02-01, indent number = 10.  
 statistical indicator = 0.

#### Transaction 12:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 198.

#### Transaction 13:

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- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0802000000, productline suffix = 80, start date = 2007-02-01, goods nomenclature sid = 199, end date = 2007-12-31:
  - description period 1: start date = 2007-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2007-02-01, indent number = 10.  
 goods nomenclature id = 0801000000,  
 productline suffix = 80.  
  
 statistical indicator = 0.

Transaction 14:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 199.

**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 2:

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

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure : OK.

Reply to transaction 7:

- Message 1, on goods.nomenclature.sid : VR-NIG-26: A goods nomenclature cannot be deleted if used in a

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measure.

Reply to transaction 8:

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

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on goods.nomenclature.sid : VR-NIG-27: A goods nomenclature cannot be deleted if used in an ERN.

Reply to transaction 11:

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

Reply to transaction 12:

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

Reply to transaction 13:

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

Reply to transaction 14:

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

**2.1.5. Test case dm\_nig\_stable\_insert: Insertion of a stable goods nomenclature**

**Message:** dm\_ref\_nig\_stable\_insert\_01.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be 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 = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = English Description.
    - description 2: language id = FR, description = French Description.

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- description 3: language id = *NL*, description = *Dutch Description*.
  - description period 2: start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.
  - indent 2: start date = *2008-02-01*, indent number = *20*.
  - nomenclature group membership 1: nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-01-01*.
  - associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *2008-01-01*.

statistical indicator = *0*.

#### Transaction 2:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = *11*.

#### Transaction 3:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0200000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - description period 2: start date = *2008-02-01*:
    - description 1: language id = *EN*,

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description = *English Description*.

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

- indent 1: start date = *2008-01-01*, indent number = *10*.
- indent 2: start date = *2008-02-01*, indent number = *20*.
- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-01-01*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with start date = *2008-01-01*, statistical indicator = *0*.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

- indent 1: start date = *2008-01-01*, indent number = *10*.
- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *2008-01-01*.
- associated footnote 1: footnote type id = *ATN*,  
footnote id = *77002*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 6:

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- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 020000, productline suffix = 80L, start date = 5/9/2008:
  - 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: start date = 2008-01-01, indent number = 10.  
 statistical indicator = L.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.  
 statistical indicator = 0.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, start date = 2007-01-01:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL,

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description = *Dutch Description*.

- indent 1: start date = 2007-01-01, indent number = 1.

goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

#### Transaction 9:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, start date = 2008-02-01:

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

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

- indent 1: start date = 2008-02-01, indent number = 1.

goods nomenclature id = 0200000000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 10:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0200010000, productline suffix = 80, start date = 2008-02-01:

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

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

- indent 1: start date = 2008-02-01, indent number = 1.

goods nomenclature id = 0200000000,

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productline suffix = 80.

statistical indicator = 0.

#### Transaction 11:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
    - goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 0.

#### Transaction 12:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.
    - goods nomenclature id = 0651000000, productline suffix = 10.
    - goods nomenclature id = 0201000000, productline suffix = 80.

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statistical indicator = 0.

Transaction 13:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2009-01-02:
  - description period 1: start date = 2009-01-02:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-02, indent number = 1.  
 goods nomenclature id = 0605000000,  
 productline suffix = 80.

statistical indicator = 0.

Transaction 14:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 1.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.  
  
 goods nomenclature id = 0605000000,  
 productline suffix = 80.

statistical indicator = 0.

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Transaction 15:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-05-01, end date = 2008-04-01:
  - description period 1: start date = 2009-05-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-05-01, indent number = 1.  
 goods nomenclature id = 0600000000, productline suffix = 80.  
  
 statistical indicator = 0.

Transaction 16:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 1.  
  
 statistical indicator = 0.

Transaction 17:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-02-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 18:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2009-01-01*:

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

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

- description period 2: start date = *2009-01-01*:

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

- indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 19:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2009-01-01*:

- description period 1: start date = *2009-01-01*:

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

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- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- description period 2: start date = *2009-01-01*:
  - description 1: language id = *EN*,  
description = *English Description*.
  - description 2: language id = *FR*,  
description = *French Description*.
  - description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 20:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *FR*,  
description = *French Description*.
    - description 2: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *1*.

statistical indicator = *0*.

Transaction 21:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0300000000*, productline suffix = *80*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,

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description = *Dutch Description*.

- indent 1: start date = 2008-01-01, indent number = 1.
- indent 2: start date = 2009-01-01, indent number = 2.

statistical indicator = 0.

Transaction 22:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 21.

statistical indicator = 0.

Transaction 23:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0300000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 20.
  - indent 2: start date = 2009-01-01, indent number = 10.

statistical indicator = 0.

Transaction 24:

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- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.  
 goods nomenclature id = 0600000000,  
 productline suffix = 80.  
  
 statistical indicator = 0.

Transaction 25:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.  
  
 goods nomenclature id = 0620000000,  
 productline suffix = 80.  
  
 statistical indicator = 0.

Transaction 26:

- Message 1: Insert a stable goods nomenclature with

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goods nomenclature id = 0202000000, productline suffix = 80, start date = 2008-01-01, end date = 2008-12-31:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2008-01-01, indent number = 10.
 

goods nomenclature id = 0651000000, productline suffix = 10.

goods nomenclature id = 0200000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 27:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0400000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - nomenclature group membership 1:
 

nomenclature group type id = X, nomenclature group id = 000000, start date = 2008-01-01.

statistical indicator = 0.

#### Transaction 28:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0610000001, productline suffix

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= 80, start date = 2009-01-01:

- description period 1: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2009-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2009-01-01.

statistical indicator = 0.

Transaction 29:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0400000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 30:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:

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- 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: start date = 2008-01-01, indent number = 10.
- associated footnote 1: footnote type id = ANC, footnote id = 99999, start date = 2008-01-01.

statistical indicator = 0.

Transaction 31:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ACD, footnote id = 55002, start date = 2008-01-01.

statistical indicator = 0.

Transaction 32:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0201000001, productline suffix = 10, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR,

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description = *French Description*.

- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66002*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 33:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.
  - associated footnote 1: footnote type id = *ATN*,  
footnote id = *77001*, start date = *2008-01-01*, end date = *2007-01-01*.

statistical indicator = *0*.

Transaction 34:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,

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description = *Dutch Description*.

- indent 1: start date = 2009-01-01, indent number = 10.

statistical indicator = 0.

Transaction 35:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 36:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.

statistical indicator = 0.

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Transaction 37:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2009-01-01:
    - description period 1: start date = 2009-01-01:
      - description 1: language id = EN, description = *English Description*.
      - description 2: language id = FR, description = *French Description*.
      - description 3: language id = NL, description = *Dutch Description*.
    - indent 1: start date = 2009-01-01, indent number = 10.
    - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2009-01-01, end date = 2009-12-31.
    - nomenclature group membership 2: nomenclature group type id = X, nomenclature group id = 000001, start date = 2009-07-01.
- 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 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on goods.nomenclature.ref : VR-NIG-1: The combination of goods code, product line suffix and start date must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on goods.nomenclature : GEN-VALIDATION-ERROR: XML Schema validation error.
- Message 1, on logical.key : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 5:

- Message 1, on nomenclature.group.ref : VR-NIG-50: The

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associated nomenclature group must be stable when the goods nomenclature is stable.

- Message 1, on footnote.ref : VR-NIG-61: The associated footnote must be stable when the footnote association is stable.

Reply to transaction 6:

- Message 1, on goods.nomenclature.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on productline.suffix : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on statistical.indicator : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 7:

- Message 1, on goods.nomenclature.ref : VR-NIG-3: The validity period of the goods nomenclature must not overlap any other goods nomenclature with the same goods code and product line suffix.

Reply to transaction 8:

- Message 1, on goods.nomenclature.ref : VR-NIG-4: The validity period of the goods nomenclature must be within (inclusive) the validity period of the product line above in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on goods.nomenclature.ref : VR-NIG-6: A goods nomenclature code must not have inferior goods codes which subdivide the given code at two different levels at the same time. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 11:

- Message 1, on absorption.list : VR-NIG-7: When an explicit end date exists for the nomenclature goods code, at least one "absorbed by" code must be created.

Reply to transaction 12:

- Message 1, on absorption.list : VR-NIG-8: When the goods nomenclature is open-ended (no end date), then the "absorbed by" code may not be filled in.

Reply to transaction 13:

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- Message 1, on derived.goods.nomenclature.ref : VR-NIG-10: The goods nomenclatures related via 'derived from' links must be stable when the goods nomenclature is stable.

Reply to transaction 14:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-9: The goods nomenclatures related via 'absorbed by' links must be stable when the goods nomenclature is stable.

Reply to transaction 15:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.
- Message 1, on indent : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 16:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 17:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 18:

- Message 1, on description.period[1] : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 19:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 20:

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

Reply to transaction 21:

- Message 1, on indent[1] : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

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Reply to transaction 22:

- Message 1, on indent.number : GEN-VALUE-GREATER-THAN-UPPER-LIMIT-ERROR: Value exceeds upper limit.

Reply to transaction 23:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 24:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-66: The "derived from" code must be applicable the day before the start date of the goods nomenclature.

Reply to transaction 25:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-67: The "absorbed by" code must be applicable the day after the closing date of the goods nomenclature.

Reply to transaction 26:

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

Reply to transaction 27:

- Message 1, on nomenclature.group.ref : VR-NIG-45: The referenced nomenclature group must exist.

Reply to transaction 28:

- 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 29:

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

Reply to transaction 30:

- Message 1, on footnote.ref : VR-NIG-54: The referenced footnote must exist.

Reply to transaction 31:

- Message 1, on footnote.type.id : VR-NIG-58: The referenced footnote must have a footnote type for which the application type is 'TARIC nomenclature' or 'CN nomenclature'.

Reply to transaction 32:

- Message 1, on footnote.type.id : VR-NIG-59: Footnotes with a footnote type for which the application type is 'CN nomenclature' must be linked to CN code. A goods nomenclature is a CN code if its goods code ends with '00'. Footnotes with a footnote type for which the application type is 'TARIC nomenclature' can be associated at any level.

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Reply to transaction 33:

- 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 34:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods nomenclature is mandatory.

Reply to transaction 35:

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

Reply to transaction 36:

- Message 1, on logical.key : VR-NIG-55: The validity period of the footnote association must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 37:

- 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:** dm\_ref\_nig\_stable\_insert\_02.xml

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = English Description of

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0500000000.

- description 2: language id = *FR*,  
description = *-French Description of 0500000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*

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

statistical indicator = *0*.

Transaction 2:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*:

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

- description 1: language id = *EN*,  
description = *English Description of 0500000000.*
- description 2: language id = *FR*,  
description = *"French Description of" 0500000000".*
- description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*

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

statistical indicator = *0*.

Transaction 3:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0800000000*, productline suffix = *80*, start date = *2008-01-01*:

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

- description 1: language id = *EN*,  
description = *English Description of 0500000000.*
- description 2: language id = *FR*,  
description = *French Description of 0234567800 French Description of 0234567800 French Description of 0234567800 French Description of*



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- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000.*
    - description 2: language id = FR, description = *French Description of 0500000000.*
    - description 3: language id = XX, description = *Description of 0500000000 in a non existing language.*
    - description 4: language id = NL, description = *Dutch Description of 0234567800.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English /Description of 0500000000.*
    - description 2: language id = FR, description = *French Description of 0500000000.*
    - description 3: language id = NL, description = *Dutch Description of 0500000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix

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= 80, start date = 2008-01-01:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 0500000000*.
  - description 2: language id = FR, description = *French Description of 0500000000*.
  - description 3: language id = NL, description = *Dutch Description of 0500000000*.
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg. Description of 0500000000*.
    - description 2: language id = FR, description = *French kg Description of 0500000000*.
    - description 3: language id = NL, description = *Dutch kg; Description of 0500000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 9:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg: Description of*

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0234567800.

- description 2: language id = *FR*,  
description = *French kg, Description of 0234567800.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0234567800.*

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

statistical indicator = *0*.

Transaction 10:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0500000000.*
    - description 2: language id = *FR*,  
description = *French Description of 0500000000.*
    - description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*
  - indent 1: start date = *2000-01-01*, indent number = *10*.
  - nomenclature group membership 1:  
nomenclature group type id = *Z*, nomenclature group id = *120045*, start date = *2000-01-01*, end date = *2006-01-01*.

statistical indicator = *0*.

Transaction 11:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0500000000.*

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- description 2: language id = *FR*, description = *French Description of 0500000000*.
- description 3: language id = *NL*, description = *Dutch Description of 0500000000*.
- indent 1: start date = *2000-01-01*, indent number = *10*.
- nomenclature group membership 1: nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 12:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *1978-01-01*:
  - description period 1: start date = *1978-01-01*:
    - description 1: language id = *EN*, description = *English Description of 1065880000*.
    - description 2: language id = *FR*, description = *French Description of 1065880000*.
    - description 3: language id = *NL*, description = *Dutch Description of 1065880000*.
  - indent 1: start date = *1978-01-01*, indent number = *10*.
  - associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *1978-01-01*, associated footnote sid = *1*.

statistical indicator = *0*.

Transaction 13:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of*

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0500000000.

- description 2: language id = *FR*,  
description = *French Description of 0500000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*
- indent 1: start date = *2000-01-01*, indent number = *10*.
- associated footnote 1: footnote type id = *ATN*,  
footnote id = *77001*, start date = *2000-01-01*, end date = *2010-01-01*.
- associated footnote 2: footnote type id = *ATN*,  
footnote id = *77001*, start date = *2008-01-01*, end date = *2020-01-01*.

statistical indicator = *0*.

Transaction 14:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0500000000.*
    - description 2: language id = *FR*,  
description = *French Description of 0500000000.*
    - description 3: language id = *NL*,  
description = *Dutch Description of 0500000000.*
  - indent 1: start date = *2000-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

Transaction 15:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix

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= 80, start date = 2000-01-01, end date = 2015-01-01:

- description period 1: start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of 3010400000*.
  - description 2: language id = FR, description = *French Description of 3010400000*.
  - description 3: language id = NL, description = *Dutch Description of 3010400000*.
- indent 1: start date = 2000-01-01, indent number = 10.  
goods nomenclature id = 0620000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 16:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-02:
  - description period 1: start date = 2008-01-02:
    - description 1: language id = EN, description = *English Description of 8411640000*.
    - description 2: language id = FR, description = *French Description of 8411640000*.
    - description 3: language id = NL, description = *Dutch Description of 8411640000*.
  - indent 1: start date = 2008-01-02, indent number = 10.  
goods nomenclature id = 0620000000, productline suffix = 80, goods nomenclature id = 0620000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 17:

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- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2000-01-01, end date = 2008-01-01:
  - description period 1: start date = 2000-01-01:
    - description 1: language id = EN, description = *English Description of 6168400000*.
    - description 2: language id = FR, description = *French Description of 6168400000*.
    - description 3: language id = NL, description = *Dutch Description of 6168400000*.
  - indent 1: start date = 2000-01-01, indent number = 10.  
 goods nomenclature id = 0620000000, productline suffix = 80, goods nomenclature id = 0620000000, productline suffix = 80.

statistical indicator = 0.

Transaction 18:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2000-01-01, end date = 2008-01-01:
  - description period 1: start date = 2000-01-01:
    - description 1: language id = EN, description = *English Description of 0500000000*.
    - description 2: language id = FR, description = *French Description of 0500000000*.
    - description 3: language id = NL, description = *Dutch Description of 0500000000*.
  - indent 1: start date = 2000-01-01, indent number = 10.  
 goods nomenclature id = 0620000000, productline suffix = 80.

statistical indicator = 0.

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Transaction 19:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.LOGICAL KEY.Goods nomenclature id*, operator = =, constant = *0500000000*.

Transaction 20:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0611000000*, productline suffix = *80*, start date = *2021-01-01*:
  - description period 1: start date = *2021-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0611000000*.
    - description 2: language id = *FR*, description = *French Description of 0611000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0611000000*.
  - indent 1: start date = *2021-01-01*, indent number = *10*.  
goods nomenclature id = *0610000000*, productline suffix = *80*.

statistical indicator = *0*.

Transaction 21:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.LOGICAL KEY.Goods nomenclature id*, operator = =, constant = *0611000000*.

Transaction 22:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0612000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0612000000*.
    - description 2: language id = *FR*, description = *French Description of 0612000000*.

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0612000000.

- description 3: language id = *NL*,  
description = *Dutch Description of 0612000000.*
  - description period 2: start date = *2007-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0612000000.*
    - description 2: language id = *FR*,  
description = *French Description of 0612000000.*
    - description 3: language id = *NL*,  
description = *Dutch Description of 0612000000.*
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 23:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0612000000*, productline suffix = *80*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0612000000.*
    - description 2: language id = *FR*,  
description = *French Description of 0234567802.*
    - description 3: language id = *NL*,  
description = *Dutch Description of 0612000000.*
  - description period 2: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *Second English Description of 0612000000.*
    - description 2: language id = *FR*,

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description = *Second French Description of 0612000000.*

- description 3: language id = *NL*,  
description = *Second Dutch Description of 0612000000.*

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

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 24:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0612000000*, productline suffix = *80*, start date = *2008-01-01*, end date = *2030-01-01*:

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

- description 1: language id = *EN*,  
description = *English Description of 0152007701.*
- description 2: language id = *FR*,  
description = *French Description of 0152007701.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0152007701.*

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

- indent 2: start date = *2006-01-01*, indent number = *20*.

- indent 3: start date = *2034-01-01*, indent number = *15*.

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 25:

- Message 1: Insert a stable goods nomenclature with

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goods nomenclature id = 0503010000, productline suffix = 80, start date = 2008-01-01:

o description period 1: start date = 2008-01-01:

- description 1: language id = EN, description = *English Description of 0503010000*.
- description 2: language id = FR, description = *French Description of 0503010000*.
- description 3: language id = NL, description = *Dutch Description of 0503010000*.

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

goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 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 goods.nomenclature.ref : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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- 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 nomenclature.group.membership : 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 : VR-NIG-50: The associated nomenclature group must be stable when the goods nomenclature is stable.

Reply to transaction 12:

- Message 1, on associated.footnote : VR-NIG-56: The validity period of the footnote association must be enclosed by the validity period of the footnote.

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same nomenclature then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same

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nomenclature then there cannot be any overlap in their association periods.

Reply to transaction 14:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-66: The "derived from" code must be applicable the day before the start date of the goods nomenclature.

Reply to transaction 15:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-67: The "absorbed by" code must be applicable the day after the closing date of the goods nomenclature.

Reply to transaction 16:

- Message 1, on logical.key : VR-NIG-68: No two "Derived from" code can have the same goods code and product line suffix.

Reply to transaction 17:

- Message 1, on logical.key : VR-NIG-69: No two "Absorbed by" code can have the same goods code and product line suffix.

Reply to transaction 18:

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

Reply to transaction 19:

- Message 1 : OK.

Reply to transaction 20:

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

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

- Message 1, on description.period[2] : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 23:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 24:

- Message 1, on indent[2] : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.
- Message 1, on indent[3] : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 25:

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- Message 1, on goods.nomenclature.ref : VR-NIG-74: A goods nomenclature, different from a chapter, must have a parent code. Exception is made for the goods nomenclature lines known as intermediate lines.

### 2.1.6. Test case **dm\_nig\_unstable\_stable\_update**: Update an unstable goods nomenclature to stable

**Message:** **dm\_nig\_unstable\_stable\_update\_01.xml**

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, `init_ref_goods_nomenclature_setup.xml` should be successfully processed.

**Content:** The message is composed of the following transactions:

#### Transaction 1:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = `0500000000`, productline suffix = `80`, start date = `2008-01-01`, goods nomenclature sid = `11`:
  - 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: start date = `2008-01-01`, indent number = `10`.
  - associated footnote 1: footnote type id = `ANC`, footnote id = `66001`, start date = `2008-01-01`, associated footnote sid = `106`.

statistical indicator = `0`.

#### Transaction 2:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = `0800000000`, productline suffix = `80`, start date = `2008-01-01`, goods nomenclature sid = `211`:

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

statistical indicator = 0.

Transaction 3:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 12:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 13:

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- description period 1: start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2008-02-01, indent number = 10.  
goods nomenclature id = 0800000000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 6:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0800010000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 14:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-02-01, indent number = 10.  
goods nomenclature id = 0800000000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 7:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0800010000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 14:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2008-02-01*, indent number = *10*.

goods nomenclature id = *0800000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 8:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0802000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *15*:

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

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 9:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0802000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *15*, end date = *2008-12-31*:

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

- description 1: language id = *EN*,  
description = *English Description*.
- description 2: language id = *FR*,

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description = *French Description*.

- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 10:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *200/901/01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2008/31/01*:
    - 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: start date = *2008-Jan*, indent number = *10*.
  - associated footnote 1: footnote type id = *AN*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

#### Transaction 11:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*, end date = *2007-01-01*:
  - 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*.

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- indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0620000000,  
productline suffix = 80.

statistical indicator = 0.

Transaction 12:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 13:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0500000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 11:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR,

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description = *French Description*.

- description 3: language id = *NL*,  
description = *Dutch Description*.
- description period 2: 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: start date = *2008-01-01*, indent number = *10*.

statistical indicator = *0*.

Transaction 14:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.

statistical indicator = *0*.

Transaction 15:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,

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description = *French Description*.

- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *30*.
- associated footnote 1: footnote type id = *ANC*,  
footnote id = *66001*, start date = *2008-01-01*.

statistical indicator = *0*.

#### Transaction 16:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - 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: start date = *2009-01-01*, indent number = *10*.

statistical indicator = *0*.

#### Transaction 17:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - 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: start date = *2008-01-01*, indent number = *10*.

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- associated footnote 1: footnote type id = *ANC*, footnote id = *66001*, start date = *2008-01-01*, associated footnote sid = *106*, end date = *2006-01-01*.

statistical indicator = *0*.

Transaction 18:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0500000000*, productline suffix = *80*, start date = *2008-10-01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2008-10-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - description period 2: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2008-10-01*, indent number = *10*.
  - indent 2: start date = *2009-01-01*, indent number = *10*.

statistical indicator = *0*.

Transaction 19:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = *=*, constant = *11*.

Transaction 20:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = *0501000000*, productline suffix = *80*, start date = *2007-01-01*, goods nomenclature sid = *16*:

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- description period 1: start date = 2007-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2007-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01, end date = 2007-12-31.
- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01.

statistical indicator = 0.

Transaction 21:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0501000000, productline suffix = 80, start date = 2007-01-01, goods nomenclature sid = 16, end date = 2008-12-31:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2007-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.  
  
goods nomenclature id = 0500000000, productline suffix = 80.
  - nomenclature group membership 1:

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nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01, end date = 2007-12-31.

- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01.

statistical indicator = 0.

Transaction 22:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 16.

Transaction 23:

- Message 1: Update the unstable goods nomenclature with goods nomenclature id = 0501000000, productline suffix = 80, start date = 2007-01-01, goods nomenclature sid = 16:

- description period 1: start date = 2007-01-01:

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

- indent 1: start date = 2007-01-01, indent number = 10.

goods nomenclature id = 0651000000, productline suffix = 10.

- nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2007-01-01, end date = 2007-12-31.

- associated footnote 1: footnote type id = ANC, footnote id = 66001, start date = 2007-01-01.

statistical indicator = 0.

Transaction 24:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 16.

Transaction 25:

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- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0688000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 17:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0501000000, productline suffix = 80.  
  
statistical indicator = 0.

Transaction 26:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0688000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 17:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0501000000, productline suffix = 80.  
  
statistical indicator = 0.

Transaction 27:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0689000000, productline suffix

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= 80, start date = 2008-01-01, goods nomenclature sid = 18, end date = 2008-12-31:

- 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: start date = 2008-01-01, indent number = 10.
  - goods nomenclature id = 0651000000, productline suffix = 10.
  - goods nomenclature id = 0501000000, productline suffix = 80.

statistical indicator = 0.

#### Transaction 28:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0689000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 18, end date = 2008-12-31:
  - 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: start date = 2008-01-01, indent number = 10.
    - goods nomenclature id = 0651000000, productline suffix = 10.
    - goods nomenclature id = 0501000000, productline suffix = 80.

statistical indicator = 0.

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Transaction 29:

- Message 1: Insert an unstable goods nomenclature with goods nomenclature id = 0699000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 19:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.
  - nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000002, start date = 2008-01-01.
  - associated footnote 1: footnote type id = ATN, footnote id = 77002.

statistical indicator = 0.

Transaction 30:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0699000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 19:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000,

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productline suffix = 10.

- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000002, start date = 2008-01-01.
- associated footnote 1: footnote type id = ATN, footnote id = 77002, start date = 2008-01-01.

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 2:

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

Reply to transaction 3:

- Message 1, on goods.nomenclature : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on goods.nomenclature.ref : VR-NIG-6: A goods nomenclature code must not have inferior goods codes which subdivide the given code at two different levels at the same time. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on absorption.list : VR-NIG-7: When an explicit end date exists for the nomenclature goods code, at least one "absorbed by" code must be created.

Reply to transaction 10:

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

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ERROR: Invalid format.

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

Reply to transaction 11:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.
- Message 1, on indent : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 12:

- Message 1, on description.period[2] : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 13:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 14:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 15:

- Message 1, on indent.number : GEN-VALUE-GREATER-THAN-UPPER-LIMIT-ERROR: Value exceeds upper limit.

Reply to transaction 16:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods nomenclature is mandatory.

Reply to transaction 17:

- 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 18:

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

Reply to transaction 19:

- Message 1 : OK.

Reply to transaction 20:

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

Reply to transaction 21:

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

Reply to transaction 22:

- Message 1 : OK.

Reply to transaction 23:

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

Reply to transaction 24:

- Message 1 : OK.

Reply to transaction 25:

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

Reply to transaction 26:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-10: The goods nomenclatures related via 'derived from' links must be stable when the goods nomenclature is stable.

Reply to transaction 27:

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

Reply to transaction 28:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-9: The goods nomenclatures related via 'absorbed by' links must be stable when the goods nomenclature is stable.

Reply to transaction 29:

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

Reply to transaction 30:

- Message 1, on footnote.ref : VR-NIG-61: The associated footnote must be stable when the footnote association is stable.

**Message:** **dm\_nig\_unstable\_stable\_update\_02.xml**

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, *init\_ref\_goods\_nomenclature\_setup.xml* should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable goods nomenclature with

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goods nomenclature id = 0605000000, productline  
suffix = 80, start date = 2008-01-01, goods  
nomenclature sid = 65:

○ description period 1: start date = 2008-01-01:

- description 1: language id = EN,  
description = *English Description of  
0660000000.*
- description 2: language id = FR,  
description = *-French Description of  
0660000000.*
- description 3: language id = NL,  
description = *Dutch Description of  
0660000000.*

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

goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

#### Transaction 2:

- Message 1: Update the stable goods nomenclature with  
goods nomenclature id = 0605000000, productline  
suffix = 80, start date = 2008-01-01, goods  
nomenclature sid = 65:

○ description period 1: start date = 2008-01-01:

- description 1: language id = EN,  
description = *English Description of  
0605000000.*
- description 2: language id = FR,  
description = *"French Description of  
"0605000000".*
- description 3: language id = NL,  
description = *Dutch Description of  
0605000000.*

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

goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

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### Transaction 3:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*
    - description 2: language id = FR, description = *French Description of 0605000000.*
    - description 3: language id = FR, description = *Second French Description of 0605000000.*
    - description 4: language id = NL, description = *Dutch Description of 0605000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.  
  
 statistical indicator = 0.

### Transaction 4:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*
    - description 2: language id = FR, description = *French Description of 0605000000.*
    - description 3: language id = XX, description = *Description of 0605000000 in a non existing language.*

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- description 4: language id = *NL*, description = *Dutch Description of 0605000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 5:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English /Description of 0605000000*.
    - description 2: language id = *FR*, description = *French Description of 0605000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0605000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 6:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0605000000*.

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- description 2: language id = *FR*,  
description = *French Description of 0605000000*.
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 7:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English kg. Description of 0605000000*.
    - description 2: language id = *FR*,  
description = *French kg Description of 0605000000*.
    - description 3: language id = *NL*,  
description = *Dutch kg; Description of 0605000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 8:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:

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- description 1: language id = *EN*,  
description = *English kg: Description of 0605000000*.
- description 2: language id = *FR*,  
description = *French kg, Description of 0605000000*.
- description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 9:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0605000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *65*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0605000000*.
    - description 2: language id = *FR*,  
description = *French Description of 0605000000*.
    - description 3: language id = *NL*,  
description = *Dutch Description of 0605000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.
  - nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2000-01-01*, end date = *2009-01-01*.

statistical indicator = *0*.

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Transaction 10:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0633000000, productline suffix = 80, start date = 2008-07-01, goods nomenclature sid = 1103, end date = 2008-12-31:
    - description period 1: start date = 2008-07-01:
      - 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: start date = 2008-07-01, indent number = 10.
      - goods nomenclature id = 0651000000, productline suffix = 10.
      - goods nomenclature id = 0600000000, productline suffix = 80.
- statistical indicator = 0.

Transaction 11:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0606000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000*.
    - description 2: language id = FR, description = *French Description of 0605000000*.
    - description 3: language id = NL, description = *Dutch Description of 0605000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
    - goods nomenclature id = 0651000000,

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productline suffix = 10.

statistical indicator = 0.

Transaction 12:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 10, start date = 2008-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0605000000.*
    - description 2: language id = FR, description = *French Description of 0605000000.*
    - description 3: language id = NL, description = *Dutch Description of 0605000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 0.

Transaction 13:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0605000000, productline suffix = 80, start date = 1970-01-01, goods nomenclature sid = 65:
  - description period 1: start date = 1970-01-01:
    - description 1: language id = EN, description = *English Description of 0501010000.*
    - description 2: language id = FR, description = *French Description of 0501010000.*
    - description 3: language id = NL, description = *Dutch Description of 0501010000.*

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- indent 1: start date = *1970-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.

statistical indicator = *0*.

#### Transaction 14:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0640000000*, productline suffix = *80*, start date = *2008-01-02*, goods nomenclature sid = *1400*, end date = *2008-12-31*:
  - description period 1: start date = *2008-01-02*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2008-01-02*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.  
  
goods nomenclature id = *0610000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 15:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0640000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1400*, end date = *2008-12-31*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description of 0640000000*.
    - description 2: language id = *FR*,  
description = *French Description of 0640000000*.

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- description 3: language id = *NL*, description = *Dutch Description of 0640000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.  
  
goods nomenclature id = *0610000000*, productline suffix = *80*.
  - nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2000-01-01*, end date = *2010-01-01*.

statistical indicator = *0*.

Transaction 16:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0640000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1400*, end date = *2008-12-31*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0640000000*.
    - description 2: language id = *FR*, description = *French Description of 0640000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0640000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.  
  
goods nomenclature id = *0610000000*, productline suffix = *80*.
  - associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *2000-01-01*, end date = *2020-01-01*.

statistical indicator = *0*.

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### Transaction 17:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0640000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1400, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0640000000.*
    - description 2: language id = FR, description = *French Description of 0640000000.*
    - description 3: language id = NL, description = *Dutch Description of 0640000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.
    - goods nomenclature id = 0651000000, productline suffix = 10.
    - goods nomenclature id = 0610000000, productline suffix = 80.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01, end date = 2008-06-01.
  - nomenclature group membership 2: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-05-01, end date = 2008-12-31.

statistical indicator = 0.

### Transaction 18:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0640000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1400, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0640000000.*

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- description 2: language id = *FR*, description = *French Description of 0640000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0640000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
    - goods nomenclature id = *0651000000*, productline suffix = *10*.
    - goods nomenclature id = *0610000000*, productline suffix = *80*.
  - nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *2008-01-01*, end date = *2008-12-31*.

statistical indicator = *0*.

Transaction 19:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0640000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1400*, end date = *2008-12-31*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description of 0640000000*.
    - description 2: language id = *FR*, description = *French Description of 0640000000*.
    - description 3: language id = *NL*, description = *Dutch Description of 0640000000*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.  
    - goods nomenclature id = *0651000000*, productline suffix = *10*.
    - goods nomenclature id = *0610000000*, productline suffix = *80*.
  - associated footnote 1: footnote type id = *ATN*,

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footnote id = 55002, start date = 2008-01-01,  
end date = 2008-12-31.

statistical indicator = 0.

Transaction 20:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0640000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1400, end date = 2008-12-31:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0640000000*.
    - description 2: language id = FR, description = *French Description of 0640000000*.
    - description 3: language id = NL, description = *Dutch Description of 0640000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
 

goods nomenclature id = 0651000000,  
productline suffix = 10.

goods nomenclature id = 0610000000,  
productline suffix = 80.
  - associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01, end date = 2008-06-01.
  - associated footnote 2: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01, end date = 2008-12-31.

statistical indicator = 0.

Transaction 21:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0645000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1455:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.

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- description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.
- associated footnote 1: footnote type id = *ANC*, footnote id = *66002*, start date = *2008-01-01*, associated footnote sid = *545*, end date = *2008-12-31*.

statistical indicator = *0*.

Transaction 22:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0645000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1455*:
  - 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0618000000*, productline suffix = *80*.

statistical indicator = *0*.

Transaction 23:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0645000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1455*, end date = *2008-06-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,

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description = *English Description*.

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

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

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

goods nomenclature id = *0610000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 24:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0645000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1455*:

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

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000002*, start date = *2008-01-01*, end date = *2008-12-31*.

statistical indicator = *0*.

#### Transaction 25:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0617000000*, productline suffix = *80*, start date = *2008-01-01*, goods

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nomenclature sid = 617:

- 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000002, start date = 2008-01-01, end date = 2008-12-31.

statistical indicator = 0.

Transaction 26:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 617.

Transaction 27:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = X, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 000002.

Transaction 28:

- Message 1: Update the stable nomenclature group with nomenclature group type id = X, nomenclature group id = 000002, start date = 1980-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description =

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*Dutch Description.*

- nomenclature group member 1: goods  
nomenclature id = 0617000000, productline  
suffix = 80, start date = 2008-01-01, goods  
nomenclature sid = 617, start date = 2008-01-  
01, end date = 2008-12-31.

nomenclature group facility code = 0.

Transaction 29:

- Message 1: Request the goods nomenclature with query  
space field = *GOODS NOMENCLATURE.GOODS  
NOMENCLATURE REF.Goods nomenclature sid*,  
operator = =, constant = 617.

Transaction 30:

- Message 1: Request the nomenclature group with  
operator = AND, query space field = *NOMENCLATURE  
GROUP.NOMENCLATURE GROUP  
REF.Nomenclature group type id*, operator = =,  
constant = X, query space field = *NOMENCLATURE  
GROUP.NOMENCLATURE GROUP  
REF.Nomenclature group id*, operator = =, constant =  
000002.

Transaction 31:

- Message 1: Update the stable goods nomenclature with  
goods nomenclature id = 0617000000, productline  
suffix = 80, start date = 2008-01-01, goods  
nomenclature sid = 617:
  - 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: start date = 2008-01-01, indent  
number = 10.
  - indent 2: start date = 1970-01-01, indent  
number = 10.  
goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

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### Transaction 32:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0617000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 617:
  - 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: start date = 2008-01-01, indent number = 10.
  - indent 2: start date = 2008-01-01, indent number = 20.  
goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

### Transaction 33:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0617000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 617:
  - description period 1: start date = 2008-06-01:
    - description 1: language id = EN, description = *English Description of 9623118700*.
    - description 2: language id = FR, description = *French Description of 9623118700*.
    - description 3: language id = NL, description = *Dutch Description of 9623118700*.
  - indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000,

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productline suffix = 10.

statistical indicator = 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-7: At a given moment, there is at most one description in a given language.

Reply to transaction 4:

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

Reply to transaction 5:

- 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 6:

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

Reply to transaction 7:

- 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

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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 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.

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on goods.nomenclature.ref : VR-NIG-3: The validity period of the goods nomenclature must not overlap any other goods nomenclature with the same goods code and product line suffix.

Reply to transaction 11:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 12:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 13:

- Message 1, on goods.nomenclature.ref : VR-NIG-4: The validity period of the goods nomenclature must be within (inclusive) the validity period of the product line above in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 14:

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

Reply to transaction 15:

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

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- Message 1, on logical.key : VR-NIG-55: The validity period of the footnote association must be enclosed by the validity period of the goods nomenclature.
- Message 1, on logical.key : VR-NIG-55: The validity period of the footnote association must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 17:

- 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 18:

- Message 1, on nomenclature.group.ref : VR-NIG-50: The associated nomenclature group must be stable when the goods nomenclature is stable.

Reply to transaction 19:

- Message 1, on associated.footnote : VR-NIG-56: The validity period of the footnote association must be enclosed by the validity period of the footnote.

Reply to transaction 20:

- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same nomenclature then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same nomenclature then there cannot be any overlap in their association periods.
- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given data in the system.

Reply to transaction 21:

- Message 1, on logical.key : VR-NIG-62: The footnote reference cannot be updated.

Reply to transaction 22:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-66: The "derived from" code must be applicable the day before the start date of the goods nomenclature.

Reply to transaction 23:

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- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-67: The "absorbed by" code must be applicable the day after the closing date of the goods nomenclature.

Reply to transaction 24:

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

Reply to transaction 25:

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

Reply to transaction 26:

- Message 1 : OK.

Reply to transaction 27:

- Message 1 : OK.

Reply to transaction 28:

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

Reply to transaction 29:

- Message 1 : OK.

Reply to transaction 30:

- Message 1 : OK.

Reply to transaction 31:

- Message 1, on indent[2] : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 32:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 33:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

### 2.1.7. Test case **dm\_nig\_stable\_update**: Update a stable goods nomenclature

**Message:** dm\_nig\_stable\_update\_01.xml

**Precondition** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:** The message is composed of the following transactions:

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#### Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 80:
    - 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: start date = 2008-01-01, indent number = 10.
    - associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.
- statistical indicator = 0.

#### Transaction 2:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 211:
    - 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: start date = 2008-01-01, indent number = 10.
- statistical indicator = 0.

#### Transaction 3:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, goods nomenclature sid = 80:
  - associated footnote 1: footnote type id = ATN,

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footnote id = 77001, associated footnote sid = 1.

statistical indicator = 0.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 12:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 13:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-02-01, indent number = 10.

goods nomenclature id = 0800000000,  
productline suffix = 80.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0801010000, productline suffix

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= 80, start date = 2008-02-01, goods nomenclature sid = 14:

- description period 1: start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: start date = 2008-02-01, indent number = 10.  
goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

#### Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0811000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 15, end date = 2008-12-31:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000,  
productline suffix = 10.  
  
goods nomenclature id = 0700000000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 8:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0811000000, productline suffix

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= 80, start date = 2008-01-01, goods nomenclature sid = 15, end date = 2008-12-31:

- 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 0.

#### Transaction 9:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-Jan, goods nomenclature sid = 80:
  - description period 1: start date = 2008/31/1:
    - description 1: language id = en, description = *English Description*.
    - description 2: language id = F, description = *French Description*.
    - description 3: language id = NLI, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 40.
  - associated footnote 1: footnote type id = AN, footnote id = 77001, associated footnote sid = A.

statistical indicator = 0.

#### Transaction 10:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 80, end date = 2007-01-01:
  - description period 1: start date = 2008-01-01:

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- 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0610000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 11:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *80*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - description period 2: start date = *2007-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.

statistical indicator = *0*.

#### Transaction 12:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0700000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid =

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80:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- description period 2: start date = 2008-01-01:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 13:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 80:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 14:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid =

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80:

- 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: start date = 2008-01-01, indent number = 30.

statistical indicator = 0.

Transaction 15:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 80:
  - 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: start date = 2009-01-01, indent number = 10.

statistical indicator = 0.

Transaction 16:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 80:
  - 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,

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description = *Dutch Description*.

- indent 1: start date = 2008-01-01, indent number = 10.
- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01, end date = 2006-01-01.

statistical indicator = 0.

Transaction 17:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-05-01, goods nomenclature sid = 80:
  - description period 1: start date = 2008-05-01:
    - 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*.
  - indent 1: start date = 2008-05-01, indent number = 20.
  - indent 2: start date = 2008-05-02, indent number = 18.

statistical indicator = 1.

Transaction 18:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 80.

Transaction 19:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2008-05-01, goods nomenclature sid = 81:
  - description period 1: start date = 2008-05-01:
    - description 1: language id = EN,

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description = *English Description*.

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

- indent 1: start date = *2008-05-01*, indent number = *10*.

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-05-01*, end date = *2008-12-31*.
- associated footnote 1: footnote type id = *ATN*, footnote id = *77001*, start date = *2008-05-01*, associated footnote sid = *1*, end date = *2008-12-31*.

statistical indicator = *0*.

#### Transaction 20:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0701000000*, productline suffix = *80*, start date = *2008-05-01*, goods nomenclature sid = *81*, end date = *2008-12-30*:

- description period 1: start date = *2008-05-01*:

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

- indent 1: start date = *2008-05-01*, indent number = *10*.

goods nomenclature id = *0651000000*,  
productline suffix = *10*.

goods nomenclature id = *0700000000*,  
productline suffix = *80*.

- nomenclature group membership 1:  
nomenclature group type id = *X*, nomenclature group id = *000001*, start date = *2008-05-01*, end

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date = 2008-12-30.

- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-05-01, associated footnote sid = 1, end date = 2008-12-30.

statistical indicator = 0.

Transaction 21:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 81.

Transaction 22:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0701000000, productline suffix = 80, start date = 2008-05-01, goods nomenclature sid = 81:

- description period 1: start date = 2008-05-01:

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

- indent 1: start date = 2008-05-01, indent number = 10.

goods nomenclature id = 0651000000,  
productline suffix = 10.

goods nomenclature id = 0700000000,  
productline suffix = 80.

- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-05-01, end date = 2008-12-30.

- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-05-01, associated footnote sid = 1, end date = 2008-12-30.

statistical indicator = 0.

Transaction 23:

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- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0700000000, productline suffix = 80, start date = 2008-01-02, goods nomenclature sid = 80:
  - description period 1: start date = 2008-01-02:
    - description 1: language id = EN, description = *English Description updated.*
    - description 2: language id = FR, description = *French Description updated.*
    - description 3: language id = NL, description = *Dutch Description updated.*
  - indent 1: start date = 2008-01-02, indent number = 10.  
goods nomenclature id = 0640000000, productline suffix = 80.

statistical indicator = 0.

Transaction 24:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0618000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 618, end date = 2008-12-31:
  - description period 1: 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.*
  - indent 1: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.  
  
goods nomenclature id = 0605000000,

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productline suffix = 80.

statistical indicator = 0.

Transaction 25:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0900000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 907:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 26:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0900000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 907:
  - 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: start date = 2008-01-01, indent number = 10.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000002, start date = 2008-01-01.
  - associated footnote 1: footnote type id = ATN, footnote id = 77002, start date = 2008-01-01, associated footnote sid = 1.

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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 2:

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

Reply to transaction 3:

- Message 1, on goods.nomenclature : GEN-VALIDATION-ERROR: XML Schema validation error.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on absorption.list : VR-NIG-7: When an explicit end date exists for the nomenclature goods code, at least one "absorbed by" code must be created.
- Message 1, on absorption.list : VR-NIG-41: When deleting an 'absorbed by' record at least one 'absorbed by' record must still exist.

Reply to transaction 9:

- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on indent.number : GEN-VALUE-GREATER-THAN-UPPER-LIMIT-ERROR: Value

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exceeds upper limit.

- Message 1, on associated.footnote.sid : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 10:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.
- Message 1, on indent : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 11:

- Message 1, on description.period[2] : VR-NIG-18: The start date of the description period must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 12:

- Message 1, on start.date : VR-NIG-19: No two associated description periods for the same goods nomenclature may have the same start date.

Reply to transaction 13:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the goods nomenclature is mandatory.

Reply to transaction 14:

- Message 1, on indent.number : GEN-VALUE-GREATER-THAN-UPPER-LIMIT-ERROR: Value exceeds upper limit.

Reply to transaction 15:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods nomenclature is mandatory.

Reply to transaction 16:

- 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 17:

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

Reply to transaction 18:

- Message 1 : OK.

Reply to transaction 19:

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

Reply to transaction 20:

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

Reply to transaction 21:

- Message 1 : OK.

Reply to transaction 22:

- Message 1, on absorption.list : VR-NIG-8: When the goods nomenclature is open-ended (no end date), then the "absorbed by" code may not be filled in.

Reply to transaction 23:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-10: The goods nomenclatures related via 'derived from' links must be stable when the goods nomenclature is stable.

Reply to transaction 24:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-9: The goods nomenclatures related via 'absorbed by' links must be stable when the goods nomenclature is stable.

Reply to transaction 25:

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

Reply to transaction 26:

- Message 1, on nomenclature.group.ref : VR-NIG-50: The associated nomenclature group must be stable when the goods nomenclature is stable.
- Message 1, on footnote.ref : VR-NIG-61: The associated footnote must be stable when the footnote association is stable.

**Message:** **dm\_nig\_stable\_update\_02.xml**

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:

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- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of 0600000000*.
  - description 2: language id = FR, description = *-French Description of 0600000000*.
  - description 3: language id = NL, description = *Dutch Description of 0600000000*.
- indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 2:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *"French Description of" 0600000000*".
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 3:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of*



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*of 0600000000.*

- description 4: language id = *NL*,  
description = *Dutch Description of 0600000000.*

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

statistical indicator = *0*.

Transaction 5:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0600000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *600*:

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

- description 1: language id = *EN*,  
description = *English Description of 0600000000.*
- description 2: language id = *FR*,  
description = *French Description of 0600000000.*
- description 3: language id = *XX*,  
description = *Description of 0600000000 in a non existent language.*
- description 4: language id = *NL*,  
description = *Dutch Description of 0600000000.*

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

statistical indicator = *0*.

Transaction 6:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0600000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *600*:

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

- description 1: language id = *EN*,  
description = *English /Description of 0600000000.*
- description 2: language id = *FR*,  
description = *French Description of*

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0600000000.

- description 3: language id = *NL*,  
description = *Dutch Description of 0600000000.*

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

statistical indicator = *0*.

Transaction 7:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0600000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *600*:

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

- description 1: language id = *EN*,  
description = *English Description of 0600000000.*
- description 2: language id = *FR*,  
description = *French Description of 0600000000.*
- description 3: language id = *NL*,  
description = *Dutch Description of 0600000000.*

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

statistical indicator = *0*.

Transaction 8:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0600000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *600*:

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

- description 1: language id = *EN*,  
description = *English kg. Description of 0600000000.*
- description 2: language id = *FR*,  
description = *French kg Description of 0600000000.*
- description 3: language id = *NL*,  
description = *Dutch kg; Description of*

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0600000000.

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

statistical indicator = 0.

Transaction 9:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg: Description of 0600000000.*
    - description 2: language id = FR, description = *French kg, Description of 0600000000.*
    - description 3: language id = NL, description = *Dutch Description of 0600000000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 10:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 5566700000.*
    - description 2: language id = FR, description = *French Description of 5566700000.*
    - description 3: language id = NL, description = *Dutch Description of 5566700000.*
  - indent 1: start date = 2008-01-01, indent number = 10.

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- nomenclature group membership 1:  
nomenclature group type id = *Z*, nomenclature group id = *120045*, start date = *2008-01-01*.

statistical indicator = *0*.

Transaction 11:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0657000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *6157*:
  - 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.

statistical indicator = *0*.

Transaction 12:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0601000000*, productline suffix = *80*, start date = *2009-01-01*, goods nomenclature sid = *6157*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*, productline suffix = *10*.

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statistical indicator = 0.

Transaction 13:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0657000000, productline suffix = 10, start date = 2009-01-01, goods nomenclature sid = 6157:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.

statistical indicator = 0.

Transaction 14:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0657000000, productline suffix = 80, start date = 2008-06-01, goods nomenclature sid = 6157:
  - description period 1: start date = 2008-06-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-06-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.

statistical indicator = 0.

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#### Transaction 15:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0618000000, productline suffix = 80, start date = 2006-01-01, goods nomenclature sid = 618:
  - description period 1: start date = 2006-01-01:
    - 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: start date = 2006-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.  
  
statistical indicator = 0.

#### Transaction 16:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2010-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2010-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2010-01-01, indent number = 10.  
  
statistical indicator = 0.

#### Transaction 17:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0644000000, productline suffix = 80, start date = 2008-01-02, goods nomenclature sid = 6044:

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- description period 1: start date = 2008-01-02:
  - description 1: language id = EN, description = *English Description of 0909090000*.
  - description 2: language id = FR, description = *French Description of 0909090000*.
  - description 3: language id = NL, description = *Dutch Description of 0909090000*.
- indent 1: start date = 2008-01-02, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.

statistical indicator = 0.

#### Transaction 18:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - nomenclature group membership 1: nomenclature group type id = Z, nomenclature group id = 120045, start date = 2008-01-01, end date = 2008-12-31.

statistical indicator = 0.

#### Transaction 19:

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- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2000-01-01, end date = 2020-01-01.

statistical indicator = 0.

Transaction 20:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.
  - indent 1: start date = 2008-06-01, indent number = 10.

statistical indicator = 0.

Transaction 21:

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- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
    - description period 1: start date = 2008-01-01:
      - description 1: language id = EN, description = *English Description of 0600000000*.
      - description 2: language id = FR, description = *French Description of 0600000000*.
      - description 3: language id = NL, description = *Dutch Description of 0600000000*.
    - indent 1: start date = 2008-01-01, indent number = 10.
    - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01, end date = 2008-05-01.
    - nomenclature group membership 2: nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01, end date = 2008-07-01.
- statistical indicator = 0.

Transaction 22:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.

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- indent 1: start date = 2008-01-01, indent number = 10.
- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000002, start date = 2008-01-01.

statistical indicator = 0.

Transaction 23:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL, description = *Dutch Description of 0600000000*.
  - indent 1: start date = 2008-01-01, indent number = 10.
  - associated footnote 1: footnote type id = ATN, footnote id = 55002, start date = 2008-01-01.

statistical indicator = 0.

Transaction 24:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0600000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 600:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description of 0600000000*.
    - description 2: language id = FR, description = *French Description of 0600000000*.
    - description 3: language id = NL,

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description = *Dutch Description of 0600000000*.

- indent 1: start date = 2008-01-01, indent number = 10.
- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.
- associated footnote 2: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 25:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0637000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1375:
  - 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: start date = 2008-01-01, indent number = 10.  
goods nomenclature id = 0651000000, productline suffix = 10.
  - associated footnote 1: footnote type id = ANC, footnote id = 66002, start date = 2008-01-01, associated footnote sid = 1375, end date = 2008-12-31.

statistical indicator = 0.

Transaction 26:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0637000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1375:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.

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- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 27:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0637000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1375*, end date = *2008-10-10*:
  - 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: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.  
  
goods nomenclature id = *0610000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 28:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0637000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *1375*, end date = *2008-10-10*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.

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- description 2: language id = *FR*,  
description = *French Description*.
- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0651000000*,  
productline suffix = *10*.  
  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

Transaction 29:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = *1375*.

Transaction 30:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0610000000*, productline suffix = *80*, start date = *2009-01-01*, goods nomenclature sid = *601*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

- indent 1: start date = *2009-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

Transaction 31:

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

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operator = =, constant = 601.

Transaction 32:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.  
goods nomenclature id = 0600000000, productline suffix = 80.
  - nomenclature group membership 1: nomenclature group type id = X, nomenclature group id = 000001, start date = 2009-01-01.

statistical indicator = 0.

Transaction 33:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 601.

Transaction 34:

- Message 1: Request the nomenclature group with operator = AND, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group type id*, operator = =, constant = X, query space field = *NOMENCLATURE GROUP.NOMENCLATURE GROUP REF.Nomenclature group id*, operator = =, constant = 000001.

Transaction 35:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2009-01-01:

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- 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: start date = *2009-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 36:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = *601*.

#### Transaction 37:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = *0610000000*, productline suffix = *80*, start date = *2009-01-01*, goods nomenclature sid = *601*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: start date = *2009-01-01*, indent number = *10*.
  - indent 2: start date = *2008-01-01*, indent number = *10*.  
goods nomenclature id = *0600000000*,  
productline suffix = *80*.

statistical indicator = *0*.

#### Transaction 38:

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- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.
  - indent 2: start date = 2009-01-01, indent number = 10.  
goods nomenclature id = 0600000000, productline suffix = 80.

statistical indicator = 0.

Transaction 39:

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2010-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.  
goods nomenclature id = 0600000000, productline suffix = 80.

statistical indicator = 0.

**Expected**

The message is composed of transactions replying to the original

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**output:**

transactions:

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

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

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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.membership : 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-NIG-1: The combination of goods code, product line suffix and start date must be unique in the universe of the stable and unstable data.

Reply to transaction 12:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 13:

- Message 1, on goods.nomenclature.ref : VR-NIG-2: The goods code and the product line suffix cannot be updated.

Reply to transaction 14:

- Message 1, on goods.nomenclature.ref : VR-NIG-3: The validity period of the goods nomenclature must not overlap any other goods nomenclature with the same goods code and product line suffix.

Reply to transaction 15:

- Message 1, on goods.nomenclature.ref : VR-NIG-4: The validity period of the goods nomenclature must be within (inclusive) the validity period of the product line above in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 16:

- Message 1, on goods.nomenclature.ref : VR-NIG-5: The validity period of the goods nomenclature must span the validity period of the line(s) below in the hierarchy. Exception is made for the goods nomenclature lines known as intermediate lines. Intermediate lines have their product line suffix different from '80'.

Reply to transaction 17:

- Message 1, on goods.nomenclature.ref : VR-NIG-13:

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When a goods nomenclature is used in an ERN, then the validity period of the goods nomenclature must span the validity period of the ERN.

Reply to transaction 18:

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

Reply to transaction 19:

- Message 1, on logical.key : VR-NIG-55: The validity period of the footnote association must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 20:

- Message 1, on start.date : VR-NIG-29: A nomenclature indent having the same start date as the goods nomenclature is mandatory.

Reply to transaction 21:

- 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 22:

- Message 1, on nomenclature.group.ref : VR-NIG-50: The associated nomenclature group must be stable when the goods nomenclature is stable.

Reply to transaction 23:

- Message 1, on associated.footer : VR-NIG-56: The validity period of the footnote association must be enclosed by the validity period of the footnote.

Reply to transaction 24:

- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same nomenclature then there cannot be any overlap in their association periods.
- Message 1, on start.date : VR-NIG-57: If the same footnote is associated more than once with the same nomenclature then there cannot be any overlap in their association periods.
- Message 1, on logical.key : VR-VI-5: At a given moment, there can only be a single version of a given

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data in the system.

Reply to transaction 25:

- Message 1, on logical.key : VR-NIG-62: The footnote reference cannot be updated.

Reply to transaction 26:

- Message 1, on derived.goods.nomenclature.ref : VR-NIG-66: The "derived from" code must be applicable the day before the start date of the goods nomenclature.

Reply to transaction 27:

- Message 1, on absorbed.goods.nomenclature.ref : VR-NIG-67: The "absorbed by" code must be applicable the day after the closing date of the goods nomenclature.

Reply to transaction 28:

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

Reply to transaction 29:

- Message 1 : OK.

Reply to transaction 30:

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

Reply to transaction 31:

- Message 1 : OK.

Reply to transaction 32:

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

Reply to transaction 33:

- Message 1 : OK.

Reply to transaction 34:

- Message 1 : OK.

Reply to transaction 35:

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

Reply to transaction 36:

- Message 1 : OK.

Reply to transaction 37:

- Message 1, on indent[2] : VR-NIG-18: The start date of the nomenclature indent must be enclosed by the validity period of the goods nomenclature.

Reply to transaction 38:

- Message 1, on start.date : VR-NIG-31: No two associated indentations may have the same start date.

Reply to transaction 39:

- Message 1, on description.period.list : VR-NIG-65: A description period having the same start date as the

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goods nomenclature is mandatory.

### 2.1.8. Test case **dm\_nig\_stable\_delete**: Deletion of a stable goods nomenclature

**Message:** **dm\_nig\_stable\_delete\_01.xml**

**Precondition:** Make sure the database is empty, and then load the testing reference data in the system. For this purpose, `init_ref_goods_nomenclature_setup.xml` should be successfully processed.

**Content:** The message is composed of the following transactions:

#### Transaction 1:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = *0800000000*, productline suffix = *80*, start date = *2008-01-01*, goods nomenclature sid = *11*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - description period 2: start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *English Description 2nd period*.
    - description 2: language id = *FR*, description = *French Description 2nd period*.
    - description 3: language id = *NL*, description = *Dutch Description 2nd period*.
  - indent 1: start date = *2008-01-01*, indent number = *10*.
  - indent 2: start date = *2008-02-01*, indent number = *20*.

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- nomenclature group membership 1:  
nomenclature group type id = X, nomenclature group id = 000001, start date = 2008-01-01.
- associated footnote 1: footnote type id = ATN, footnote id = 77001, start date = 2008-01-01.

statistical indicator = 0.

Transaction 2:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 11.

Transaction 3:

- Message 1: Request the goods nomenclature with query space field = *GOODS NOMENCLATURE.GOODS NOMENCLATURE REF.Goods nomenclature sid*, operator = =, constant = 11.

Transaction 4:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 11.

Transaction 5:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 12:
  - 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: start date = 2008-01-01, indent number = 10.

statistical indicator = 0.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = 001000, geographical area id = 1000, goods nomenclature id = 0800000000, productline suffix = 80, start date = 2008-01-01, measure sid = 1, regulation id = R0801010, regulation role type = 1.

Transaction 7:

- Message 1: Delete the goods nomenclature with goods

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nomenclature sid = 12.

Transaction 8:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 13:
  - 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: start date = 2008-01-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.

statistical indicator = 0.

Transaction 9:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0801000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 45, end date = 2008-12-31:
  - 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: start date = 2008-01-01, indent number = 10.

Transaction 10:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 13.

Transaction 11:

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- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0802000000, productline suffix = 80, start date = 2008-02-01, goods nomenclature sid = 14:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2008-02-01, indent number = 10.  
 goods nomenclature id = 0801000000,  
 productline suffix = 80, start date = 2008-02-01.

statistical indicator = 0.

Transaction 12:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 14.

Transaction 13:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0802000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 15, end date = 2008-12-31:
  - 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: start date = 2008-01-01, indent number = 10.  
 goods nomenclature id = 0651000000,  
 productline suffix = 10.  
  
 goods nomenclature id = 0801000000,  
 productline suffix = 80.

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statistical indicator = 0.

Transaction 14:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 15.

**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 2:

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

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure : OK.

Reply to transaction 7:

- Message 1, on goods.nomenclature.sid : VR-NIG-26: A goods nomenclature cannot be deleted if used in a measure.

Reply to transaction 8:

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

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on goods.nomenclature.sid : VR-NIG-27: A goods nomenclature cannot be deleted if used in an ERN.

Reply to transaction 11:

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

Reply to transaction 12:

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

Reply to transaction 13:

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

Reply to transaction 14:

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

**Message:**            **dm\_nig\_stable\_delete\_02.xml**

**Precondition:**    Make sure the database is empty, and then load the testing reference data in the system. For this purpose, init\_ref\_goods\_nomenclature\_setup.xml should be successfully processed.

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0610000000, productline suffix = 80, start date = 2009-01-01, goods nomenclature sid = 601:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: start date = 2009-01-01, indent number = 10.  
statistical indicator = 0.

**Transaction 2:**

- Message 1: Update the stable goods nomenclature with goods nomenclature id = 0620000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 602:
  - 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: start date = 2008-01-01, indent number

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= 10.

goods nomenclature id = 0651000000,  
productline suffix = 10.

statistical indicator = 0.

Transaction 3:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 618.

Transaction 4:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 601.

Transaction 5:

- Message 1: Delete the goods nomenclature with goods nomenclature sid = 600.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on derivation.list : VR-NIG-76: If the goods nomenclature is not a chapter at least one "derived from" code must be created. Exception is made for the goods nomenclature lines known as intermediate lines.

Reply to transaction 2:

- Message 1, on absorption.list : VR-NIG-41: When deleting an 'absorbed by' record at least one 'absorbed by' record must still exist.

Reply to transaction 3:

- Message 1, on goods.nomenclature.sid : VR-NIG-72: The goods nomenclature cannot be deleted if it is used as a "derived from" code.

Reply to transaction 4:

- Message 1, on goods.nomenclature.sid : VR-NIG-73: The goods nomenclature cannot be deleted if it is used as an "absorbed by" code.

Reply to transaction 5:

- Message 1, on goods.nomenclature.sid : VR-NIG-75: A goods nomenclature cannot be deleted if it has child nomenclature codes. Exception is made for the goods nomenclature lines known as intermediate lines.

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## 2.2. Certificate

### 2.2.1. Test case `init_certificate_setup`: Insertion of certificate reference data

**Message:** `init_certificate_setup.xml`

**Precondition:** First, make sure the database is empty.

**Content:** The message is composed of the following transactions:

#### Transaction 1:

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

#### Transaction 2:

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

#### Transaction 3:

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

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*English Description.*

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

measure type combination = 0.

Transaction 4:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*, description = *English Description of GN 0101110000.*
    - description 2: language id = *FR*, description = *French Description of GN 0101110000.*
    - description 3: language id = *NL*, description = *Dutch Description of GN 0101110000.*
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

statistical indicator = 0.

Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2007-01-01, official journal number = 1, official journal page = 1.

Transaction 6:

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

application code = 9.

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#### Transaction 7:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 8:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00701*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 9:

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

#### Transaction 10:

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

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- description 2: language id = *FR*, description = *French Description of measure condition code BB.*
- description 3: language id = *NL*, description = *Dutch Description of measure condition code BB.*

Transaction 11:

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

Transaction 12:

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

Transaction 13:

- Message 1: Insert a stable certificate type with certificate type code = *C*, start date = *2009-02-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 14:

- Message 1: Insert an unstable certificate type with certificate type code = *D*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description =

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*French Description.*

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

Transaction 15:

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

Transaction 16:

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

Transaction 17:

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

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

Transaction 18:

- Message 1: Insert a stable measurement unit qualifier with measurement unit qualifier code = *A*, start date = *2000-01-02*:
  - description 1: language id = *EN*, description = *English Description.*

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

Transaction 19:

- Message 1: Insert a stable measurement unit with measurement unit code = *AZE*, 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*.

measurement unit qualifier code = *A*, start date = *2000-01-02*.

qualifier required = *0*.

Transaction 20:

- Message 1: Insert a stable regulation group with regulation group id = *AZE*, 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 21:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, community code = *1*, regulation group id = *AZE*, approved flag = *1*.

Transaction 22:

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

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

measure type series id = *AA*:

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

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

Transaction 0:

- Message 1: Insert a stable measure action code with action code = *900*, start date = *1900-01-01*:
  - description 1: language id = *EN*, description = *English Description of 900*.
  - description 2: language id = *FR*, description = *French Description of 900*.
  - description 3: language id = *NL*, description = *Dutch Description of 900*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

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Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

### 2.2.2. Test case dm\_ce\_insert: Insertion of a certificate

**Message:** dm\_ce\_insert\_01.xml

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

**Content:** The message is composed of the following transactions:

#### Transaction 1:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

#### Transaction 2:

- Message 1: Request the certificate with query space field = *CERTIFICATE.CERTIFICATE REF.Certificate code*, operator = =, constant = CE3.

#### Transaction 3:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:

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

#### Transaction 4:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *ce12*, start date = *2009/01/01*:
  - description period 1: start date = *20090101*:
    - description 1: language id = *eng*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-05-01*, end date = *2009-04-01*:
  - description period 1: start date = *2009-05-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 6:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 7:

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- Message 1: Insert an unstable certificate with certificate type code = Z, certificate code = CE4, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

Transaction 9:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE4, start date = 2009-01-01:
  - description period 1: start date = 2009-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

Transaction 10:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE4, start date = 2009-01-01, end date = 2009-12-31:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2010-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.

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

Transaction 11:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - description period 2: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on certificate.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on certificate.type.code : VR-CE-4: The referenced certificate type must exist.

Reply to transaction 9:

- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.

Reply to transaction 10:

- Message 1, on certificate.ref : OK.

Reply to transaction 11:

- Message 1, on start.date : VR-CE-8: No two associated description periods for the same certificate may have the same start date.
- Message 1, on certificate.ref : VR-CE-1: The combination of certificate type and certificate code must be unique in the universe of the stable and unstable data.

**Message:** dm\_ce\_insert\_02.xml

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

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:

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

#### Transaction 2:

- Message 1: Request the certificate with query space field = *CERTIFICATE.CERTIFICATE REF.Certificate code*, operator = =, constant = *CE3*.

#### Transaction 3:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 4:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *ce12*, start date = *2009/01/01*:
  - description period 1: start date = *20090101*:
    - description 1: language id = *eng*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description period 1: start date = *2009-05-01*:
    - description 1: language id = *EN*,

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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 certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 7:

- Message 1: Insert a stable certificate with certificate type code = *Z*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 8:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-02-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 9:

- Message 1: Insert a stable certificate with certificate type

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code = A, certificate code = CE4, start date = 2009-01-01, end date = 2009-12-31:

- description period 1: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- description period 2: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 10:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE4, start date = 2009-01-01, end date = 2009-12-31:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - description period 2: start date = 2010-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

Transaction 11:

- Message 1: Insert a stable certificate with certificate type code = C, certificate code = CE4, start date = 2008-01-

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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 12:

- Message 1: Insert a stable certificate with certificate type code = D, certificate code = CE4, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on certificate.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

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ERROR: Invalid format.

Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on certificate.type.code : VR-CE-4: The referenced certificate type must exist.

Reply to transaction 8:

- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.

Reply to transaction 9:

- Message 1, on start.date : VR-CE-8: No two associated description periods for the same certificate may have the same start date.

Reply to transaction 10:

- Message 1, on description.period[2] : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

Reply to transaction 11:

- Message 1, on certificate.ref : VR-CE-11: The validity period of the certificate must be enclosed in the validity period of the related certificate type.

Reply to transaction 12:

- Message 1, on certificate.type.ref : VR-CE-9: The certificate type must be stable when the certificate is stable.

**Message:** dm\_ce\_insert\_03.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_certificate\_setup.xml* message should be successfully

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processed by the system.

**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE3:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

**Transaction 2:**

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

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

### 2.2.3. Test case dm\_ce\_di\_insert: Insertion of a certificate description

**Message:** dm\_ce\_di\_insert\_01.xml

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

**Content:** The message is composed of the following transactions:

#### Transaction 1:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *-French Description for certificate CE1.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE1.*

#### Transaction 2:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN,

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description = *English Description for certificate CE1.*

- description 2: language id = *FR*,  
description = *"French Description for certificate CE1.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE1.*

#### Transaction 3:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE1.*
    - description 2: language id = *FR*,  
description = *Test with a multilingual description for FR which contains more than 500 characters:....*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE1.*

#### Transaction 4:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE1.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE1.*
    - description 3: language id = *FR*,  
description = *Second French Description for certificate CE1.*
    - description 4: language id = *NL*,  
description = *Dutch Description for certificate CE1.*

#### Transaction 5:

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- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *French Description for certificate CE1.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE1.*
    - description 4: language id = XX, description = *Description in nonexistent language for certificate CE1.*

Transaction 6:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *French Description for certificate CE1.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE1.*

Transaction 7:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *French Description for*

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*certificate CE1:*

- description 3: language id = *NL*, description = *Dutch Description for certificate CE1*.

Transaction 8:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE1 kg. test*.
    - description 2: language id = *FR*, description = *French Description for certificate CE1 kg test*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE1 kg; test*.

Transaction 9:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE1 kg: test*.
    - description 2: language id = *FR*, description = *French Description for certificate CE1 kg, test*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE1 test*.

**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

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:**            **dm\_ce\_di\_insert\_02.xml**

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

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE1*.
    - description 2: language id = *FR*, description = *-French Description for certificate CE1*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE1*.

**Transaction 2:**

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE1*.
    - description 2: language id = *FR*, description = *"French Description for certificate CE1*.
    - description 3: language id = *NL*, description = *Dutch Description for*

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*certificate CE1.*

Transaction 3:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *Test with a multilingual description for FR which contains more than 500 characters:....*
    - description 3: language id = NL, description = *Dutch Description for certificate CE1.*

Transaction 4:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1.*
    - description 2: language id = FR, description = *French Description for certificate CE1.*
    - description 3: language id = FR, description = *Second French Description for certificate CE1.*
    - description 4: language id = NL, description = *Dutch Description for certificate CE1.*

Transaction 5:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for*

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*certificate CE1.*

- description 2: language id = *FR*,  
description = *French Description for certificate CE1.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE1.*
- description 4: language id = *XX*,  
description = *Description in nonexistent language for certificate CE1.*

#### Transaction 6:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE1.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE1.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE1.*

#### Transaction 7:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE1.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE1.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE1.*

#### Transaction 8:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE1*, start date = *2009-01-*

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01:

- description period 1: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description for certificate CE1 kg. test.*
  - description 2: language id = FR, description = *French Description for certificate CE1 kg test.*
  - description 3: language id = NL, description = *Dutch Description for certificate CE1 kg; test.*

Transaction 9:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE1 kg: test.*
    - description 2: language id = FR, description = *French Description for certificate CE1 kg, test.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE1 test.*

**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



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#### 2.2.4. Test case **dm\_ce\_update**: Update of a certificate

**Message:** **dm\_ce\_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\_certificate\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

##### Transaction 1:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

##### Transaction 2:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE4, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

##### Transaction 3:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = 1000, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1:
  - measure condition 1: condition code = AA, sequence number = 1, certificate type code = A, certificate code = CE4, action code = 900.

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#### Transaction 4:

- Message 1: Insert an unstable certificate with certificate type code = *D*, certificate code = *CE5*, start date = *2009-01-01*, end date = *2010-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE6*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 6:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 7:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE6*.

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Transaction 8:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00701*, start date = *2009-01-01*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE7*.

**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.

**Message:** **dm\_ce\_update\_01.xml**

**Precondition:** Make sure the *dm\_ce\_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 certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated*.

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#### Transaction 2:

- Message 1: Request the certificate with query space field = *CERTIFICATE.CERTIFICATE REF.Certificate code*, operator = =, constant = *CE3*.

#### Transaction 3:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated*.

#### Transaction 5:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*:
  - description period 1: start date = *2009-02-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated*.

#### Transaction 6:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.

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- description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated.*
- description period 2: start date = *2010-02-01*:
  - description 1: language id = *EN*,  
description = *English Description for certificate CE3 updated-Second.*
  - description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated-Second.*
  - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated-Second.*

Transaction 7:

- Message 1: Update the unstable certificate with  
certificate type code = *A*, certificate code = *CE3*, start  
date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE3 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated.*
  - description period 2: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description Period for certificate CE3 updated-Second.*
    - description 2: language id = *FR*,  
description = *French Description Period for certificate CE3 updated-Second.*
    - description 3: language id = *NL*,  
description = *Dutch Description Period for certificate CE3 updated-Second.*

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**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on certificate.ref : OK.

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

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

**Reply to transaction 5:**

- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.

**Reply to transaction 6:**

- Message 1, on certificate.ref : OK.

**Reply to transaction 7:**

- Message 1, on start.date : VR-CE-8: No two associated description periods for the same certificate may have the same start date.

**Message:**

**dm\_ce\_update\_02.xml**

**Precondition:**

Make sure the *dm\_ce\_update\_01.xml* message has been successfully processed.

**Content:**

The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE3, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE3 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE3 updated.*
    - description 3: language id = NL, description = *Dutch Description for*

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*certificate CE3 updated.*

Transaction 2:

- Message 1: Request the certificate with query space field = *CERTIFICATE.CERTIFICATE REF.Certificate code*, operator = =, constant = *CE3*.

Transaction 3:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated.*

Transaction 5:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*:
  - description period 1: start date = *2009-02-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated.*

Transaction 6:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for*

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*certificate CE3 updated.*

- description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated.*
- description period 2: start date = *2010-02-01*:
  - description 1: language id = *EN*,  
description = *English Description for certificate CE3 updated-Second.*
  - description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated-Second.*
  - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated-Second.*

Transaction 7:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE3 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE3 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE3 updated.*
  - description period 2: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description Period for certificate CE3 updated-Second.*
    - description 2: language id = *FR*,  
description = *French Description Period for certificate CE3 updated-Second.*
    - description 3: language id = *NL*,  
description = *Dutch Description Period*

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for certificate CE3 updated-Second.

**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on certificate.ref : OK.

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

**Reply to transaction 5:**

- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.

**Reply to transaction 6:**

- Message 1, on description.period[2] : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

**Reply to transaction 7:**

- Message 1, on start.date : VR-CE-8: No two associated description periods for the same certificate may have the same start date.

**Message:** **dm\_ce\_update\_03.xml**

**Precondition:** Make sure the *dm\_ce\_update\_02.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE4, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = English Description for

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*certificate CE4 updated.*

- description 2: language id = *FR*,  
description = *French Description for certificate CE4 updated.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE4 updated.*

#### Transaction 2:

- Message 1: Request the certificate with query space field = *CERTIFICATE.CERTIFICATE REF.Certificate code*, operator = =, constant = *CE4*.

#### Transaction 3:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE4 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE4 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE4 updated.*

#### Transaction 4:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-02-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE4 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE4 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE4 updated.*

#### Transaction 5:

- Message 1: Update the stable certificate with certificate

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type code = A, certificate code = CE4, start date = 2009-01-01, end date = 2009-12-31:

- description period 1: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description for certificate CE4 updated.*
  - description 2: language id = FR, description = *French Description for certificate CE4 updated.*
  - description 3: language id = NL, description = *Dutch Description for certificate CE4 updated.*
- description period 2: start date = 2010-02-01:
  - description 1: language id = EN, description = *English Description for certificate CE4 updated-Second.*
  - description 2: language id = FR, description = *French Description for certificate CE4 updated-Second.*
  - description 3: language id = NL, description = *Dutch Description for certificate CE4 updated-Second.*

Transaction 6:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE4, start date = 2009-01-01, end date = 2009-12-31:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE4 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE4 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE4 updated.*
  - description period 2: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description Period for certificate CE4 updated-Second.*

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- description 2: language id = *FR*,  
description = *French Description Period for certificate CE4 updated-Second.*
- description 3: language id = *NL*,  
description = *Dutch Description Period for certificate CE4 updated-Second.*

Transaction 7:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE4 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE4 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE4 updated.*

Transaction 8:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-04-01*, end date = *2009-12-31*:
  - description period 1: start date = *2009-04-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE7 updated.*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE7 updated.*

**Expected output:**

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

Reply to transaction 1:

- Message 1, on certificate.ref : OK.

Reply to transaction 2:

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- Message 1 : OK.

Reply to transaction 3:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

Reply to transaction 4:

- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.

Reply to transaction 5:

- Message 1, on description.period[2] : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.
- Message 1, on certificate.ref : VR-CE-10: The validity period of the certificate must span the validity period of all related stable measure.

Reply to transaction 6:

- Message 1, on start.date : VR-CE-8: No two associated description periods for the same certificate may have the same start date.
- Message 1, on certificate.ref : VR-CE-10: The validity period of the certificate must span the validity period of all related stable measure.

Reply to transaction 7:

- Message 1, on certificate.ref : VR-CE-10: The validity period of the certificate must span the validity period of all related stable measure.

Reply to transaction 8:

- Message 1, on certificate.ref : VR-CE-5: The validity period of the certificate must span the validity period of all related stable dynamic footnote associations.

**Message:** **dm\_ce\_update\_04.xml**

**Precondition:** Make sure the *dm\_ce\_update\_03.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

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- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE3, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE3 updated to stable.*
    - description 2: language id = FR, description = *French Description for certificate CE3 updated to stable.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE3 updated to stable.*

#### Transaction 2:

- Message 1: Request the certificate with operator = AND, query space field = CERTIFICATE.CERTIFICATE REF.Certificate code, operator = =, constant = CE3, query space field = CERTIFICATE.Stability flag, operator = =, constant = 0.

#### Transaction 3:

- Message 1: Update the unstable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for nonexistent certificate CE1.*
    - description 2: language id = FR, description = *French Description for nonexistent certificate CE1.*
    - description 3: language id = NL, description = *Dutch Description for nonexistent certificate CE1.*

#### Transaction 4:

- Message 1: Update the unstable certificate with certificate type code = A, certificate code = CE4, start date = 2007-01-01:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE4.*

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- description 2: language id = *FR*, description = *French Description for certificate CE4*.
- description 3: language id = *NL*, description = *Dutch Description for certificate CE4*.

Transaction 5:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated*.

Transaction 6:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE3*, start date = *2008-01-01*:
  - description period 1:
    - description 1: language id = *EN*, description = *English Description for certificate CE3 updated*.
    - description 2: language id = *FR*, description = *French Description for certificate CE3 updated*.
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE3 updated*.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on certificate.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

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Reply to transaction 3:

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

Reply to transaction 6:

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

**Message:** **dm\_ce\_update\_05.xml**

**Precondition:** Make sure the *dm\_ce\_update\_04.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE1, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:

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- description 1: language id = *EN*,  
description = *English Description for nonexistent certificate CE1.*
- description 2: language id = *FR*,  
description = *French Description for nonexistent certificate CE1.*
- description 3: language id = *NL*,  
description = *Dutch Description for nonexistent certificate CE1.*

#### Transaction 2:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for nonexistent certificate CE4.*
    - description 2: language id = *FR*,  
description = *French Description for nonexistent certificate CE4.*
    - description 3: language id = *NL*,  
description = *Dutch Description for nonexistent certificate CE4.*

#### Transaction 3:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1:
    - description 1: language id = *EN*,  
description = *English Description for nonexistent certificate CE4.*
    - description 2: language id = *FR*,  
description = *French Description for nonexistent certificate CE4.*
    - description 3: language id = *NL*,  
description = *Dutch Description for nonexistent certificate CE4.*

#### Transaction 4:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2007-01-01*:

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- description period 1: start date = 2007-01-01:
  - description 1: language id = EN, description = *English Description for certificate CE4.*
  - description 2: language id = FR, description = *French Description for certificate CE4.*
  - description 3: language id = NL, description = *Dutch Description for certificate CE4.*

**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on certificate.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.
- Message 1, on description.period.list : VR-CE-6: A description period having the same start date as the certificate is mandatory.
- Message 1, on description.period : VR-CE-7: The start date of the description period must be enclosed by the validity period of the certificate.

**Reply to transaction 3:**

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

**Reply to transaction 4:**

- Message 1, on certificate.ref : VR-CE-11: The validity period of the certificate must be enclosed in the validity period of the related certificate type.

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### 2.2.5. Test case dm\_ce\_delete: Deletion of a certificate

**Message:** dm\_ce\_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\_certificate\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

#### Transaction 1:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

#### Transaction 2:

- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.

#### Transaction 3:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE3, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN,

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description = *English Description*.

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

#### Transaction 4:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE4*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE3*.

#### Transaction 6:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00701*, start date = *2009-01-01*, condition code = *AA*, action code = *001*, certificate type code = *A*, certificate code = *CE4*.

#### Transaction 7:

- Message 1: Insert an unstable certificate with certificate type code = *A*, certificate code = *CE5*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

#### Transaction 8:

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- Message 1: Insert a stable certificate with certificate type code = A, certificate code = CE6, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = English Description.
    - description 2: language id = FR, description = French Description.
    - description 3: language id = NL, description = Dutch Description.

Transaction 9:

- Message 1: Insert an unstable measure with measure type id = 001000, geographical area id = 1000, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2009-01-01, regulation id = R0801010, regulation role type = 1:
  - measure condition 1: condition code = AA, sequence number = 1, certificate type code = A, certificate code = CE5, action code = 900.
  - measure condition 2: condition code = BB, sequence number = 1, certificate type code = A, certificate code = CE6, action code = 900.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

**Message:** dm\_ce\_delete\_01.xml

**Precondition:** Make sure the message dm\_ce\_delete\_setup\_01.xml has been

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correctly processed by the system.

**Content:**

The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE7.

**Transaction 2:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE8.

**Transaction 3:**

- Message 1: Request the certificate with query space field = CERTIFICATE.CERTIFICATE REF.Certificate code, operator = =, constant = CE7.
- Message 2: Request the certificate with query space field = CERTIFICATE.CERTIFICATE REF.Certificate code, operator = =, constant = CE8.

**Transaction 4:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE7.

**Transaction 5:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE8.

**Transaction 6:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE3.

**Transaction 7:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE4.

**Transaction 8:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE5.

**Transaction 9:**

- Message 1: Delete the certificate with certificate type code = A, certificate code = CE6.

**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on certificate.ref : OK.

**Reply to transaction 2:**

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- Message 1, on certificate.ref : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on certificate.ref : VR-CE-13: A certificate cannot be deleted if used in a dynamic footnote association.

Reply to transaction 7:

- Message 1, on certificate.ref : VR-CE-13: A certificate cannot be deleted if used in a dynamic footnote association.

Reply to transaction 8:

- Message 1, on certificate.ref : VR-CE-14: A certificate cannot be deleted if used in a measure condition.

Reply to transaction 9:

- Message 1, on certificate.ref : VR-CE-14: A certificate cannot be deleted if used in a measure condition.

## 2.2.6. Test case **dm\_ce\_di\_update**: Update of a certificate description

**Message:** **dm\_ce\_di\_update\_setup\_01.xml**

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

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN,

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description = *English Description*.

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

Transaction 2:

- Message 1: Insert a stable certificate with certificate type code = *A*, certificate code = *CE8*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

**Message:** **dm\_ce\_di\_update\_01.xml**

**Precondition:** Make sure the *dm\_ce\_di\_update\_setup\_01.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE7 updated*.
    - description 2: language id = *FR*,  
description = *-French Description for certificate CE7 updated*.

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- description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 2:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*, description = *"French Description for certificate CE7 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 3:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters: ....*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 4:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 updated.*

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- description 2: language id = *FR*, description = *French Description for certificate CE7 updated.*
- description 3: language id = *FR*, description = *Second French Description for certificate CE7.*
- description 4: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 5:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE7 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*
    - description 4: language id = *XX*, description = *Description in nonexistent language for certificate CE7 updated.*

#### Transaction 6:

- Message 1: Update the unstable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE7 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 7:

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- Message 1: Update the unstable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE7 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE7 updated.*

#### Transaction 8:

- Message 1: Update the unstable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 kg. updated.*
    - description 2: language id = FR, description = *French Description for certificate CE7 kg updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE7 kg; updated.*

#### Transaction 9:

- Message 1: Update the unstable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 kg: updated.*
    - description 2: language id = FR, description = *French Description for certificate CE7 kg, updated.*
    - description 3: language id = NL, description = *Dutch Description for*

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*certificate CE7 updated.*

**Expected output:**

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

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

**Reply to transaction 3:**

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

**Reply to transaction 4:**

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

**Reply to transaction 5:**

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

**Reply to transaction 6:**

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

**Reply to transaction 7:**

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

**Reply to transaction 8:**

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

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may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

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

Reply to transaction 9:

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

**Message:** dm\_ce\_di\_update\_02.xml

**Precondition:** Make sure the *dm\_ce\_di\_update\_01.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 updated.*
    - description 2: language id = FR, description = *-French Description for certificate CE7 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE7 updated.*

Transaction 2:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN,

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description = *English Description for certificate CE7 updated.*

- description 2: language id = *FR*,  
description = *"French Description for certificate CE7 updated.*
- description 3: language id = *NL*,  
description = *Dutch Description for certificate CE7 updated.*

#### Transaction 3:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*,  
description = *Test with a multilingual description for FR which contains more than 500 characters:....*
    - description 3: language id = *NL*,  
description = *Dutch Description for certificate CE7 updated.*

#### Transaction 4:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*,  
description = *English Description for certificate CE7 updated.*
    - description 2: language id = *FR*,  
description = *French Description for certificate CE7 updated.*
    - description 3: language id = *FR*,  
description = *Second French Description for certificate CE7.*
    - description 4: language id = *NL*,  
description = *Dutch Description for certificate CE7 updated.*

#### Transaction 5:

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- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE7 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE7 updated.*
    - description 4: language id = XX, description = *Description in nonexistent language for certificate CE7 updated.*

Transaction 6:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE7 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE7 updated.*

Transaction 7:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE7, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE7 updated.*
    - description 2: language id = FR, description = *French Description for*

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*certificate CE7 updated:.*

- description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

Transaction 8:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 kg. updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE7 kg updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 kg; updated.*

Transaction 9:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE7*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE7 kg: updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE7 kg, updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE7 updated.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:**            **dm\_ce\_di\_update\_03.xml**

**Precondition:**    Make sure the *dm\_ce\_di\_update\_02.xml* message has been successfully processed.

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 updated.*
    - description 2: language id = FR, description = *-French Description for certificate CE8 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE8 updated.*

**Transaction 2:**

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 updated.*
    - description 2: language id = FR, description = *"French Description for certificate CE8 updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE8 updated.*

**Transaction 3:**

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- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 updated.*
    - description 2: language id = FR, description = *Test with a multilingual description for FR which contains more than 500 characters: .....*
    - description 3: language id = NL, description = *Dutch Description for certificate CE8 updated.*

Transaction 4:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 updated.*
    - description 2: language id = FR, description = *French Description for certificate CE8 updated.*
    - description 3: language id = FR, description = *Second French Description for certificate CE8.*
    - description 4: language id = NL, description = *Dutch Description for certificate CE8 updated.*

Transaction 5:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 updated.*
    - description 2: language id = FR,

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description = *French Description for certificate CE8 updated.*

- description 3: language id = *NL*, description = *Dutch Description for certificate CE8 updated.*
- description 4: language id = *XX*, description = *Description in nonexistent language for certificate CE8 updated.*

#### Transaction 6:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE8*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE8 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE8 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE8 updated.*

#### Transaction 7:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE8*, start date = *2009-01-01*:
  - description period 1: start date = *2009-01-01*:
    - description 1: language id = *EN*, description = *English Description for certificate CE8 updated.*
    - description 2: language id = *FR*, description = *French Description for certificate CE8 updated.*
    - description 3: language id = *NL*, description = *Dutch Description for certificate CE8 updated.*

#### Transaction 8:

- Message 1: Update the stable certificate with certificate type code = *A*, certificate code = *CE8*, start date = *2009-01-01*:

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- description period 1: start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description for certificate CE8 kg. updated.*
  - description 2: language id = FR, description = *French Description for certificate CE8 kg updated.*
  - description 3: language id = NL, description = *Dutch Description for certificate CE8 kg; updated.*

Transaction 9:

- Message 1: Update the stable certificate with certificate type code = A, certificate code = CE8, start date = 2009-01-01:
  - description period 1: start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description for certificate CE8 kg: updated.*
    - description 2: language id = FR, description = *French Description for certificate CE8 kg, updated.*
    - description 3: language id = NL, description = *Dutch Description for certificate CE8 updated.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on 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



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## 2.3. Measure action code

### 2.3.1. Test case dm\_mac\_insert: Insertion of a measure action code

**Message:** dm\_mac\_insert\_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 measure action code with action code = 300:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

#### Transaction 2:

- Message 1: Request the measure action code with query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = =, constant = 300.

#### Transaction 3:

- Message 1: Insert an unstable measure action code with action code = 300:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

#### Transaction 4:

- Message 1: Insert a stable measure action code with action code = 300, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description =

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*Dutch Description of MAC300.*

Transaction 5:

- Message 1: Insert a stable measure action code with action code = *1p0*, start date = *2008-01-01*:
  - description 1: language id = *en*, description = *English Description of MAC300.*
  - description 2: language id = *Fr*, description = *French Description of MAC300.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 6:

- Message 1: Insert an unstable measure action code with action code = *301*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 7:

- Message 1: Insert an unstable measure action code with action code = *301*:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*

**Expected output:**

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.action.code.ref : VR-MAC-1:  
The measure action code must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measure.action.code.ref : VR-MAC-1:  
The measure action code must be unique in the universe

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of the stable and unstable data.

Reply to transaction 5:

- Message 1, on action.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

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

Reply to transaction 7:

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

**Message:**            **dm\_mac\_insert\_02.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 measure action code with action code = 302, start date = 2008-01-01:
  - 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 2:

- Message 1: Request the measure action code with query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = =, constant = 302.

Transaction 3:

- Message 1: Insert an unstable measure action code with action code = 302, start date = 2008-01-01:

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- 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 4:

- Message 1: Insert a stable measure action code with action code = 302, start date = 2008-01-01:
  - 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 5:

- Message 1: Insert a stable measure action code with action code = 1p0, start date = 2008-01-01:
  - description 1: language id = *en*, description = *English Description of MAC300*.
  - description 2: language id = *Fr*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 6:

- Message 1: Insert a stable measure action code with action code = 303, start date = 2009-05-01, end date = 2008-04-01:
  - description 1: language id = *EN*, description = *English Description of MAC303*.
  - description 2: language id = *FR*, description = *French Description of MAC303*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC303*.

Transaction 7:

- Message 1: Insert a stable measure action code with action code = 303, start date = 2008-01-01:
  - description 1: language id = *EN*, description =

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*English Description of MAC303.*

- description 2: language id = *FR*, description = *French Description of MAC303.*

**Expected output:**

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

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.action.code.ref : VR-MAC-1:  
The measure action code must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measure.action.code.ref : VR-MAC-1:  
The measure action code must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on action.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

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

Reply to transaction 7:

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

**Message:** **dm\_mac\_insert\_03.xml**

**Precondition:** Make sure the *init\_ref\_languages.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:



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Transaction 4:

- Message 1: Insert an unstable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = FR, description = *Second French Description.*
  - description 4: language id = NL, description = *Dutch Description.*

Transaction 5:

- Message 1: Insert an unstable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = XX, description = *Description for a non existent language.*
  - description 4: language id = NL, description = *Dutch Description.*

Transaction 6:

- Message 1: Insert an unstable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

Transaction 7:

- Message 1: Insert an unstable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*

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

Transaction 8:

- Message 1: Insert an unstable measure action code with action code = *301*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English kg. Description*.
  - description 2: language id = *FR*, description = *French kg Description*.
  - description 3: language id = *NL*, description = *Dutch kg; Description*.

Transaction 9:

- Message 1: Insert an unstable measure action code with action code = *301*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English kg; Description*.
  - description 2: language id = *FR*, description = *French kg, Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

**Expected output:**

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** dm\_mac\_insert\_04.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 measure action code with action code = 303, start date = 2008-01-01:
  - description 1: language id = EN, description =



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

Transaction 5:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *XX*, description = *Description for a non existent language*.
  - description 4: language id = *NL*, description = *Dutch Description*.

Transaction 6:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 8:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2008-01-01*:

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

Transaction 9:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English kg: Description.*
  - description 2: language id = *FR*, description = *French kg, Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 10:

- Message 1: Insert a stable measure action code with action code = *303*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on description : VR-DI-6: The length of a 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

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moment, there is at most one description in a given language.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

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### 2.3.2. Test case **dm\_mac\_update**: Update of a measure action code

**Message:** **dm\_mac\_update\_setup\_01.xml**

Make sure the *init\_ref\_languages.xml* message has been successfully processed.

**Content:** The message is composed of the following transactions:

**Transaction 1a:**

- Message 1: Insert a stable measure type series with measure type series id = 1, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

measure type combination = 0.

**Transaction 1b:**

- Message 1: Insert a stable regulation group with regulation group id = BAB, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

**Transaction 1c:**

- Message 1: Insert a stable measure type with measure type id = 001, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

measure type series id = 1:

  - associated regulation group 1: regulation group id = BAB, start date = 1999-01-01.

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

Transaction 1d:

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

Transaction 1e:

- 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 MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 1f:

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

Transaction 1g:

- Message 1: Insert a stable measure condition code with condition code = AA, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 1h:

- Message 1: Insert a stable footnote type with footnote type id = NC, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

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application code = 9.

Transaction 1i:

- Message 1: Insert a stable footnote type with footnote type id = *CF*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

application code = 9.

Transaction 1j:

- Message 1: Insert a stable footnote with footnote type id = *NC*, footnote id = *003*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of MAC300*.
    - description 2: language id = *FR*, description = *French Description of MAC300*.
    - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 1k:

- Message 1: Insert a stable footnote with footnote type id = *CF*, footnote id = *007*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of MAC300*.
    - description 2: language id = *FR*, description = *French Description of MAC300*.
    - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 1:

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- Message 1: Insert a stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 2:

- Message 1: Insert a stable measure action code with action code = 301, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC301.*
  - description 2: language id = FR, description = *French Description of MAC301.*
  - description 3: language id = NL, description = *Dutch Description of MAC301.*

Transaction 3:

- Message 1: Insert a stable country with country id = BE, start date = 1900-01-01, area code = 0:
  - description period 1: start date = 1900-01-01:
    - description 1: language id = EN, description = *English Description of country group.*
    - description 2: language id = FR, description = *French Description of country group.*
    - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2007-12-31:
  - description period 1: start date = 2007-12-31:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description.*



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productline suffix = 80.

statistical indicator = 1.

- Message 5: Insert a stable goods nomenclature with goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-03:

- description period 1: start date = 2008-01-03:

- description 1: language id = EN, description = *English Description of GN0101010100.*
- description 2: language id = FR, description = *French Description of GN0101010100.*
- description 3: language id = NL, description = *Dutch Description of GN0101010100.*

- indent 1: indent sid = 4, start date = 2008-01-03, indent number = 1.

goods nomenclature id = 0101010000,  
productline suffix = 80.

statistical indicator = 0.

- Message 6: Insert a stable measure with measure type id = 001, geographical area id = BE, goods nomenclature id = 0101010100, productline suffix = 80, order number = 123456, start date = 2009-01-01, measure sid = 33223000, regulation id = R0801010, regulation role type = 1:

- measure condition 1: condition code = AA, sequence number = 331, action code = 300.
- measure condition 2: condition code = AA, sequence number = 332, action code = 301.

#### Transaction 4:

- Message 1: Insert a stable measure action code with action code = 302, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC302.*
  - description 2: language id = FR, description = *French Description of MAC302.*

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- description 3: language id = *NL*, description = *Dutch Description of MAC302*.

Transaction 5:

- Message 1: Insert a stable measure action code with action code = *303*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC303*.
  - description 2: language id = *FR*, description = *French Description of MAC303*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC303*.

Transaction 6:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *NC*, footnote id = *003*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *AA*, action code = *302*.

Transaction 7:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *CF*, footnote id = *007*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *AA*, action code = *303*.

**Expected output:**

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

Reply to transaction 1a:

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

Reply to transaction 1b:

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

Reply to transaction 1c:

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

Reply to transaction 1d:

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

Reply to transaction 1e:

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

Reply to transaction 1f:

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

Reply to transaction 1g:

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

Reply to transaction 1h:

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

Reply to transaction 1i:

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

Reply to transaction 1j:

- Message 1, on footnote.ref : OK.

Reply to transaction 1k:

- Message 1, on footnote.ref : OK.

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on country.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.
- Message 3, on goods.nomenclature.ref : OK.
- Message 4, on goods.nomenclature.ref : OK.
- Message 5, on goods.nomenclature.ref : OK.
- Message 6, on measure : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

**Message:** dm\_mac\_update\_01.xml

**Precondition:** Make sure the dm\_mac\_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 measure action code with

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action code = 300, start date = 2008-01-01:

- description 1: language id = *EN*, description = *English Description of MAC300 updated.*
- description 2: language id = *FR*, description = *French Description of MAC300 updated.*
- description 3: language id = *NL*, description = *Dutch Description of MAC300 updated.*

Transaction 2:

- Message 1: Request the measure action code with operator = *AND*, query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = *=*, constant = *300*, query space field = *MEASURE ACTION CODE.Start date*, operator = *=*, constant = *2008-01-01*.

Transaction 3:

- Message 1: Update the stable measure action code with action code = *300*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 4:

- Message 1: Update the stable measure action code with action code = *300*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 5:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MAC300.*

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- description 2: language id = *FR*, description = *French Description of MAC300*.
- description 3: language id = *NL*, description = *Dutch Description of MAC300*.

**Expected output:**

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

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

**Reply to transaction 4:**

- Message 1, on measure.action.code.ref : VR-MAC-3:  
The validity period of the measure action code must span the validity period of all related stable measures.

**Reply to transaction 5:**

- Message 1, on measure.action.code.ref : VR-MAC-3:  
The validity period of the measure action code must span the validity period of all related stable measures.

**Message:**

**dm\_mac\_update\_02.xml**

**Precondition:**

Make sure the dm\_mac\_update\_01.xml message has been successfully processed.

**Content:**

The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable measure action code with action code = *300*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

**Transaction 2:**

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- Message 1: Request the measure action code with operator = *AND*, query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = =, constant = 300, query space field = *MEASURE ACTION CODE.Start date*, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Update the stable measure action code with action code = 300, start date = 2008-01-01, end date = 2007-04-01:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 4:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01, end date = 2009-12-31:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 5:

- Message 1: Update the stable measure action code with action code = 302, start date = 2009-01-01, end date = 2009-12-31:
  - 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*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on measure.action.code.ref : VR-MAC-3: The validity period of the measure action code must span the validity period of all related stable measures.

Reply to transaction 5:

- Message 1, on measure.action.code.ref : VR-MAC-4: The validity period of the measure action code must span the validity period of all related stable dynamic footnote associations.

**Message:** **dm\_mac\_update\_03.xml**

**Precondition:** Make sure the dm\_mac\_update\_02.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description of MAC301.*
  - description 2: language id = FR, description = *French Description of MAC301.*
  - description 3: language id = NL, description = *Dutch Description of MAC301.*

Transaction 2:

- Message 1: Request the measure action code with operator = AND, query space field = MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code, operator = =, constant = 301, query space field = MEASURE ACTION CODE.Start date, operator = =, constant = 2008-01-01.

Transaction 3:

- Message 1: Update the stable measure action code with

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action code = 301, start date = 2008-01-01, end date = 2007-04-01:

- description 1: language id = EN, description = *English Description of MAC301.*
- description 2: language id = FR, description = *French Description of MAC301.*
- description 3: language id = NL, description = *Dutch Description of MAC301.*

Transaction 4:

- Message 1: Update the stable measure action code with action code = 301, start date = 2009-01-01, end date = 2009-12-31:
  - description 1: language id = EN, description = *English Description of MAC301.*
  - description 2: language id = FR, description = *French Description of MAC301.*
  - description 3: language id = NL, description = *Dutch Description of MAC301.*

Transaction 5:

- Message 1: Update the stable measure action code with action code = 303, start date = 2009-01-01, end date = 2009-12-31:
  - description 1: language id = EN, description = *English Description of MAC303.*
  - description 2: language id = FR, description = *French Description of MAC303.*
  - description 3: language id = NL, description = *Dutch Description of MAC303.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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- Message 1, on measure.action.code.ref : VR-MAC-3:  
The validity period of the measure action code must span the validity period of all related stable measures.

Reply to transaction 5:

- Message 1, on measure.action.code.ref : VR-MAC-4:  
The validity period of the measure action code must span the validity period of all related stable dynamic footnote associations.

**Message:** dm\_mac\_update\_04.xml

**Precondition:** Make sure the dm\_mac\_update\_03.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure action code with action code = 301, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 2:

- Message 1: Update the unstable measure action code with action code = 500, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

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

Reply to transaction 1:

- 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

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information also has publication status unstable.

Reply to transaction 2:

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

**Message:** **dm\_mac\_update\_05.xml**

**Precondition:** Make sure the dm\_mac\_update\_04.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure action code with action code = 500, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 2:

- Message 1: Update the stable measure action code with action code = 300:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

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

Reply to transaction 1:

- Message 1, on measure.action.code.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.

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**Message:**            **dm\_mac\_update\_06.xml**

**Precondition:**    Make sure the dm\_mac\_update\_05.xml message has been successfully processed.

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable measure action code with action code = 600, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

**Transaction 2:**

- Message 1: Update the stable measure action code with action code = 301:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

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

**Reply to transaction 1:**

- Message 1, on measure.action.code.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.

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### 2.3.3. Test case **dm\_mac\_delete**: Deletion of a measure action code

**Message:** **dm\_mac\_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 1a:**

- Message 1: Insert a stable measure type series with measure type series id = 1, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

measure type combination = 0.

**Transaction 1b:**

- Message 1: Insert a stable regulation group with regulation group id = BAB, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

**Transaction 1c:**

- Message 1: Insert a stable measure type with measure type id = 001, start date = 1999-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

measure type series id = 1:

  - associated regulation group 1: regulation group id = BAB, start date = 1999-01-01.

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

Transaction 1d:

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

Transaction 1e:

- 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 MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 1f:

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

Transaction 1g:

- Message 1: Insert a stable measure condition code with condition code = AA, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 1h:

- Message 1: Insert a stable footnote type with footnote type id = NC, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

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application code = 9.

Transaction 1i:

- Message 1: Insert a stable footnote type with footnote type id = *CF*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

application code = 9.

Transaction 1j:

- Message 1: Insert a stable footnote with footnote type id = *NC*, footnote id = *004*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of MAC300*.
    - description 2: language id = *FR*, description = *French Description of MAC300*.
    - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 1k:

- Message 1: Insert a stable footnote with footnote type id = *NC*, footnote id = *003*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of MAC300*.
    - description 2: language id = *FR*, description = *French Description of MAC300*.
    - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 1l:

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- Message 1: Insert a stable footnote with footnote type id = *CF*, footnote id = *007*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description of MAC300*.
    - description 2: language id = *FR*, description = *French Description of MAC300*.
    - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 1:

- Message 1: Insert an unstable measure action code with action code = *304*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC304*.
  - description 2: language id = *FR*, description = *French Description of MAC304*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC304*.

Transaction 2:

- Message 1: Insert a stable measure action code with action code = *305*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301*.
  - description 2: language id = *FR*, description = *French Description of MAC301*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC301*.

Transaction 3:

- Message 1: Insert an unstable measure action code with action code = *300*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description =

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*Dutch Description of MAC300.*

Transaction 4:

- Message 1: Insert a stable measure action code with action code = 301, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC301.*
  - description 2: language id = FR, description = *French Description of MAC301.*
  - description 3: language id = NL, description = *Dutch Description of MAC301.*

Transaction 5:

- Message 1: Insert a stable country with country id = BE, start date = 1900-01-01, area code = 0:
  - description period 1: start date = 1900-01-01:
    - description 1: language id = EN, description = *English Description of country group.*
    - description 2: language id = FR, description = *French Description of country group.*
    - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2007-12-31:
  - description period 1: start date = 2007-12-31:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description.*
    - description 3: language id = NL, description = *Dutch Description.*
  - indent 1: indent sid = 1, start date = 2007-12-31, indent number = 1.  
statistical indicator = 1.
- Message 3: Insert a stable goods nomenclature with goods nomenclature id = 0101000000, productline suffix

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= 80, start date = 2008-01-01:

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

- indent 1: indent sid = 2, start date = 2008-01-01, indent number = 1.

goods nomenclature id = 010000000,  
productline suffix = 80.

statistical indicator = 1.

- Message 4: Insert a stable goods nomenclature with goods nomenclature id = 010101000, productline suffix = 80, start date = 2008-01-02:

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

- indent 1: indent sid = 3, start date = 2008-01-02, indent number = 1.

goods nomenclature id = 010100000,  
productline suffix = 80.

statistical indicator = 1.

- Message 5: Insert a stable goods nomenclature with goods nomenclature id = 0101010100, productline suffix = 80, start date = 2008-01-03:

- description period 1: start date = 2008-01-03:
  - description 1: language id = *EN*,

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description = *English Description of GN01010100*.

- description 2: language id = *FR*, description = *French Description of GN01010100*.
- description 3: language id = *NL*, description = *Dutch Description of GN01010100*.

- indent 1: indent sid = 4, start date = 2008-01-03, indent number = 1.

goods nomenclature id = 0101010000,  
productline suffix = 80.

statistical indicator = 0.

- Message 6: Insert an unstable measure with measure type id = 001, geographical area id = BE, goods nomenclature id = 0101010100, productline suffix = 80, order number = 123456, start date = 2009-01-01, measure sid = 33223, regulation id = R0801010, regulation role type = 1:
  - measure condition 1: condition code = AA, sequence number = 332, action code = 300.
  - measure condition 2: condition code = AA, sequence number = 333, action code = 301.

#### Transaction 6:

- Message 1: Insert an unstable measure action code with action code = 302, start date = 2009-01-01:
  - 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 7:

- Message 1: Insert an unstable measure action code with action code = 303, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC303*.
  - description 2: language id = *FR*, description =

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*French Description of MAC303.*

- o description 3: language id = *NL*, description = *Dutch Description of MAC303.*

Transaction 8:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *NC*, footnote id = *003*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *AA*, action code = *302*.

Transaction 9:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *NC*, footnote id = *004*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *AA*, action code = *303*.

**Expected output:**

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

Reply to transaction 1a:

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

Reply to transaction 1b:

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

Reply to transaction 1c:

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

Reply to transaction 1d:

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

Reply to transaction 1e:

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

Reply to transaction 1f:

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

Reply to transaction 1g:

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

Reply to transaction 1h:

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

Reply to transaction 1i:

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

Reply to transaction 1j:

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

Reply to transaction 1k:

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

Reply to transaction 1l:

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- Message 1, on footnote.ref : OK.

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on country.ref : OK.
- Message 2, on goods.nomenclature.ref : OK.
- Message 3, on goods.nomenclature.ref : OK.
- Message 4, on goods.nomenclature.ref : OK.
- Message 5, on goods.nomenclature.ref : OK.
- Message 6, on measure : OK.

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** dm\_mac\_delete\_01.xml

**Precondition:** Make sure the message dm\_mac\_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 measure action code with action

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code = 304.

Transaction 2:

- Message 1: Delete the measure action code with action code = 305.

Transaction 3:

- Message 1: Request the measure action code with query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = =, constant = 304.
- Message 2: Request the measure action code with query space field = *MEASURE ACTION CODE.MEASURE ACTION CODE REF.Action code*, operator = =, constant = 305.

Transaction 4:

- Message 1: Delete the measure action code with action code = 304.

Transaction 5:

- Message 1: Delete the measure action code with action code = 305.

Transaction 6:

- Message 1: Delete the measure action code with action code = 300.

Transaction 7:

- Message 1: Delete the measure action code with action code = 301.

Transaction 8:

- Message 1: Delete the measure action code with action code = 302.

Transaction 9:

- Message 1: Delete the measure action code with action code = 303.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1 : OK.

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- Message 2 : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure.action.code.ref : VR-MAC-6:  
The measure action code cannot be deleted if it is used in a measure condition.

Reply to transaction 7:

- Message 1, on measure.action.code.ref : VR-MAC-6:  
The measure action code cannot be deleted if it is used in a measure condition.

Reply to transaction 8:

- Message 1, on measure.action.code.ref : VR-MAC-7: A measure action code cannot be deleted if used in a dynamic footnote association.

Reply to transaction 9:

- Message 1, on measure.action.code.ref : VR-MAC-7: A measure action code cannot be deleted if used in a dynamic footnote association.

**2.3.4. Test case dm\_mac\_di\_update: Update of a measure action code description**

**Message:** dm\_mac\_di\_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 an unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description =

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*Dutch Description of MAC300.*

Transaction 2:

- Message 1: Insert a stable measure action code with action code = 301, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC301.*
  - description 2: language id = FR, description = *French Description of MAC301.*
  - description 3: language id = NL, description = *Dutch Description of MAC301.*

**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\_mac\_di\_update\_01.xml**

**Precondition:**

Make sure the dm\_mac\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 2:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description "of MAC300.*
  - description 2: language id = FR, description = *"French Description of MAC300.*
  - description 3: language id = NL, description =

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*Dutch Description of MAC300.*

Transaction 3:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Descriptionaaaaaaaa... (1500 characters).*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*

Transaction 4:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = FR, description = *Second French Description of MAC300.*
  - description 4: language id = NL, description = *Dutch Description of MAC300.*

Transaction 5:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300.*
  - description 2: language id = FR, description = *French Description of MAC300.*
  - description 3: language id = NL, description = *Dutch Description of MAC300.*
  - description 4: language id = XX, description = *XX Description of MAC300.*

Transaction 6:

- Message 1: Update the unstable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MAC300/.*

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- description 2: language id = *FR*, description = *French Description of MAC300*.
- description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 7:

- Message 1: Update the unstable measure action code with action code = *300*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300*.
  - description 2: language id = *FR*, description = *French Description of MAC300*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300*.

Transaction 8:

- Message 1: Update the unstable measure action code with action code = *300*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300 g*.
  - description 2: language id = *FR*, description = *French Description of MAC300 kg*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300 kg*.

Transaction 9:

- Message 1: Update the unstable measure action code with action code = *300*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC300 g*.
  - description 2: language id = *FR*, description = *French Description of MAC300 l*.
  - description 3: language id = *NL*, description = *Dutch Description of MAC300 l*.

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

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Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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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-10: Description text cannot end with double point ':'.
- 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:** dm\_mac\_di\_update\_02.xml

**Precondition:** Make sure the dm\_mac\_di\_update\_01.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = - English Description of MAC300.
  - description 2: language id = FR, description = - French Description of MAC300.
  - description 3: language id = NL, description = Dutch Description of MAC300.

Transaction 2:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = EN, description = English ""Description of MAC300.
  - description 2: language id = FR, description =

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*"French Description of MAC300.*

- description 3: language id = *NL*, description = *Dutch ""Description of MAC300.*

Transaction 3:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Descriptionaaaaaaaa... (1500 characters).*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 4:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*
  - description 3: language id = *FR*, description = *French Description of MAC300 two.*
  - description 4: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 5:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*
  - description 4: language id = *XX*, description = *XX Description of MAC300.*

Transaction 6:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:

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- description 1: language id = *EN*, description = *English Description of MAC300/*.
- description 2: language id = *FR*, description = *French Description of MAC300.*
- description 3: language id = *NL*, description = */Dutch Description of MAC300.*

Transaction 7:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300.*
  - description 2: language id = *FR*, description = *French Description of MAC300:.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300.*

Transaction 8:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300 g:.*
  - description 2: language id = *FR*, description = *French Description of MAC300 kg;.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300 kg,.*

Transaction 9:

- Message 1: Update the stable measure action code with action code = 300, start date = 2009-01-01:
  - description 1: language id = *EN*, description = *English Description of MAC300 g:.*
  - description 2: language id = *FR*, description = *French Description of MAC300 l;.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC300 l..*

**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 ' '.

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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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-10: Description text cannot end with double point ':'.
- 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:** dm\_mac\_di\_update\_03.xml

**Precondition:** Make sure the dm\_mac\_di\_update\_02.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure action code with action code = 301, start date = 2009-01-01:
  - description 1: language id = EN, description = - English Description of MAC301.
  - description 2: language id = FR, description = - French Description of MAC301.
  - description 3: language id = NL, description = Dutch Description of MAC301.

Transaction 2:

- Message 1: Update the stable measure action code with action code = 301, start date = 2009-01-01:
  - description 1: language id = EN, description = "English Description of MAC301.
  - description 2: language id = FR, description =

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*French Description of "MAC301.*

- description 3: language id = *NL*, description = *'Dutch Description of MAC301'*.

Transaction 3:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301.*
  - description 2: language id = *FR*, description = *French Descriptionaaaaaaaaaa.. (1500 characters).*
  - description 3: language id = *NL*, description = *Dutch Description of MAC301.*

Transaction 4:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301.*
  - description 2: language id = *FR*, description = *French Description of MAC301.*
  - description 3: language id = *FR*, description = *French Description of MAC301 two.*
  - description 4: language id = *NL*, description = *Dutch Description of MAC301.*

Transaction 5:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301.*
  - description 2: language id = *FR*, description = *French Description of MAC301.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC301.*
  - description 4: language id = *XX*, description = *XX Description of MAC301.*

Transaction 6:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:

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- description 1: language id = *EN*, description = */English Description / of MAC301.*
- description 2: language id = *FR*, description = *French Description of MAC301.*
- description 3: language id = *NL*, description = *Dutch Description of MAC301/.*

Transaction 7:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301:.*
  - description 2: language id = *FR*, description = *French Description of MAC301:.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC301.*

Transaction 8:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301 g:.*
  - description 2: language id = *FR*, description = *French Description of MAC301 kg:.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC301 kg,.*

Transaction 9:

- Message 1: Update the stable measure action code with action code = *301*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MAC301 g:.*
  - description 2: language id = *FR*, description = *French Description of MAC301 l;.*
  - description 3: language id = *NL*, description = *Dutch Description of MAC301 l..*

**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 ' '.

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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

## 2.4. Measure condition code

### 2.4.1. Test case `init_ref_mcc_setup`: Insertion of Measure condition code reference data

**Message:** `init_measure_condition_code_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 =

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*English Description of nl.*

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

Transaction 2:

- Message 1: Insert a stable footnote type with footnote type id = *ANC*, start date = *1980-01-01*:

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

application code = 9.

- Message 2: Insert a stable footnote type with footnote type id = *ATN*, start date = *1980-01-01*:

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

application code = 2.

- Message 3: Insert a stable footnote type with footnote type id = *ACD*, start date = *2007-01-01*:

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

application code = 5.

- Message 4: Insert a stable footnote type with footnote type id = *ACA*, start date = *2007-01-01*, end date = *2010-01-01*:

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

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

application code = 5.
- Message 5: Insert a stable footnote type with footnote type id = *ACF*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 9.
- Message 6: Insert a stable footnote type with footnote type id = *ACG*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 5.
- Message 7: Insert a stable footnote type with footnote type id = *FTA*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 7.
- Message 8: Insert a stable footnote type with footnote type id = *FTB*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

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application code = 7.

- Message 9: Insert a stable footnote type with footnote type id = *FTC*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 7.

- Message 10: Insert a stable footnote type with footnote type id = *FTD*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 7.

- Message 11: Insert a stable footnote type with footnote type id = *ERN*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 3.

- Message 12: Insert a stable footnote type with footnote type id = *MUR*, start date = *2007-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = 8.

- Message 13: Insert a stable footnote type with footnote

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type id = *DFA*, start date = *2007-01-01*:

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

application code = *9*.

Transaction 3:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
- Message 2: Insert a stable footnote with footnote type id = *ACG*, footnote id = *00800*, start date = *2007-01-01*:
  - description period 1: start date = *2007-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
- Message 3: Insert a stable footnote with footnote type id = *ACG*, footnote id = *00900*, start date = *2007-01-01*, end date = *2007-12-31*:
  - description period 1: start date = *2007-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*,

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description = *Dutch Description*.

- Message 4: Insert a stable footnote with footnote type id = *ANC*, footnote id = *00300*, start date = *2000-01-01*:
  - description period 1: start date = *2000-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Insert a stable measure action code with action code = *001*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
- Message 2: Insert a stable measure action code with action code = *002*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
- Message 3: Insert a stable measure action code with action code = *003*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert a stable measure type series with

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measure type series id = *A1*, start date = *2008-01-01*:

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

measure type combination = *0*.

- Message 2: Insert a stable measure type series with measure type series id = *B1*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *1*.

- Message 3: Insert a stable measure type series with measure type series id = *C1*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *1*.

Transaction 6:

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

measure type series id = *A1*, trade movement code = *0*, measure explosion level = *6*, measure component applicable code = *2*, order number capture code = *1*,

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accepted via input bridge = 0, priority code = 1.

Transaction 7:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 2007-12-31:
  - description period 1: start date = 2007-12-31:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2007-12-31, indent number = 1.

statistical indicator = 1.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-01-01, indent number = 1.  
 goods nomenclature id = 0100000000,  
 productline suffix = 80.

statistical indicator = 1.

- Message 3: Insert a stable goods nomenclature with goods nomenclature id = 0101010000, productline suffix = 80, start date = 2008-01-02:
  - description period 1: start date = 2008-01-02:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR,

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description = *French Description*.

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

- indent 1: indent sid = 3, start date = 2008-01-02,  
indent number = 1.

goods nomenclature id = 010100000,  
productline suffix = 80.

statistical indicator = 1.

- Message 4: Insert a stable goods nomenclature with  
goods nomenclature id = 0101010100, productline suffix  
= 80, start date = 2008-01-03:

- description period 1: start date = 2008-01-03:

- description 1: language id = *EN*,  
description = *English Description of  
GN0101010100*.
- description 2: language id = *FR*,  
description = *French Description of  
GN0101010100*.
- description 3: language id = *NL*,  
description = *Dutch Description of  
GN0101010100*.

- indent 1: indent sid = 4, start date = 2008-01-03,  
indent number = 1.

goods nomenclature id = 0101010000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 8:

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

#### **Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

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Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

#### 2.4.2. Test case **dm\_mcc\_insert**: Insertion of a measure condition code

**Message:** **dm\_mcc\_insert\_01.xml**

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose *init\_measure\_condition\_code\_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 measure condition code with condition code = *JA*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

##### Transaction 2:

- Message 1: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JA*.

##### Transaction 3:

- Message 1: Insert an unstable measure condition code with condition code = *JA*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

##### Transaction 4:

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- Message 1: Insert a stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 5:

- Message 1: Insert an unstable measure condition code with condition code = *jaaaa*, start date = *2009/05/01*:
  - description 1: language id = *en*, description = *English Description of MCCJA*.
  - description 2: language id = *fr*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 6:

- Message 1: Insert an unstable measure condition code with condition code = *JB*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 7:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *NL*, description = *Dutch Description of MCCJA*.

**Expected output:**

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

Reply to transaction 1:

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

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Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.condition.code.ref : VR-MCC-1:  
The measure condition code must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measure.condition.code.ref : VR-MCC-1:  
The measure condition code must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on condition.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-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 description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

**Message:** dm\_mcc\_insert\_02.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose *init\_measure\_condition\_code\_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 measure condition code with condition code = *JC*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJC*.

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

Transaction 2:

- Message 1: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JC*.

Transaction 3:

- Message 1: Insert an unstable measure condition code with condition code = *JC*:
  - description 1: language id = *EN*, description = *English Description of MCCJC*.
  - description 2: language id = *FR*, description = *French Description of MCCJC*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJC*.

Transaction 4:

- Message 1: Insert a stable measure condition code with condition code = *JC*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJC*.
  - description 2: language id = *FR*, description = *French Description of MCCJC*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJC*.

Transaction 5:

- Message 1: Insert a stable measure condition code with condition code = *jcaaa*, start date = *2009/05/01*:
  - description 1: language id = *en*, description = *English Description of MCCJC*.
  - description 2: language id = *fr*, description = *French Description of MCCJC*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJC*.

Transaction 6:

- Message 1: Insert a stable measure condition code with condition code = *JD*, start date = *2009-05-01*, end date =

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2008-04-01:

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

Transaction 7:

- Message 1: Insert a stable measure condition code with condition code = *JD*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJC*.
  - description 2: language id = *NL*, description = *Dutch Description of MCCJC*.

**Expected output:**

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

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.condition.code.ref : VR-MCC-1:  
The measure condition code must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measure.condition.code.ref : VR-MCC-1:  
The measure condition code must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

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

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

**Message:** dm\_mcc\_insert\_03.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose *init\_measure\_condition\_code\_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 measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 3:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description =



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- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English /Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 7:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 8:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English kg. Description*.
  - description 2: language id = *FR*, description = *French kg Description*.
  - description 3: language id = *NL*, description = *Dutch kg; Description*.

Transaction 9:

- Message 1: Insert an unstable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English kg; Description*.
  - description 2: language id = *FR*, description = *French kg, Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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Reply to transaction 9:

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

**Message:** dm\_mcc\_insert\_04.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose *init\_measure\_condition\_code\_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 measure condition code with condition code = *JD*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

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

Transaction 3:

- Message 1: Insert a stable measure condition code with condition code = *JD*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French DescriptionFrench DescriptionFrench*



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

Transaction 7:

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

Transaction 8:

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

Transaction 9:

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

Transaction 10:

- Message 1: Insert a stable measure condition code with condition code = *JD*:
  - description 1: language id = *EN*, description = *English Description*.

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

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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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 : VR-DI-3: Description text cannot start with an indent '-'.
- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

### 2.4.3. Test case **dm\_mcc\_update**: Update of a measure condition code

**Message:** **dm\_mcc\_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\_measure\_condition\_code\_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 measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 2:

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- Message 1: Insert a stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCCJB*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB*.

Transaction 3:

- Message 4: Insert a stable regulation group with regulation group id = *GGA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of regulation group*.
  - description 2: language id = *FR*, description = *French Description of regulation group*.
  - description 3: language id = *NL*, description = *Dutch Description of regulation group*.
- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, area code = *0*:
  - description period 1: start date = *1900-01-01*:
    - description 1: language id = *EN*, description = *English Description of country group*.
    - description 2: language id = *FR*, description = *French Description of country group*.
    - description 3: language id = *NL*, description = *Dutch Description of country group*.
- Message 2: Insert a stable measure type series with measure type series id = *AA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of M. Type AA*.
  - description 2: language id = *FR*, description = *French Description of M. Type AA*.
  - description 3: language id = *NL*, description = *Dutch Description of M. Type AA*.

measure type combination = *0*.

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- Message 3: Insert a stable measure type with measure type id = 001, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GGA, start date = 2009-01-01.

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

- Message 5: Insert a stable regulation role type with regulation role type id = 1, start date = 2007-01-01:
  - description 1: language id = EN, description = *English Description of unit qualifier.*
  - description 2: language id = FR, description = *French Description of unit qualifier.*
  - description 3: language id = NL, description = *Dutch Description of unit qualifier.*
- Message 6: 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 7: Insert an unstable measure with measure type id = 001, geographical area id = BE, goods nomenclature id = 0101010100, productline suffix = 80, order number = 123456, start date = 2009-01-01, measure sid = 33323000, regulation id = R0801010, regulation role type = 1:
  - measure condition 1: condition code = JA, sequence number = 332, action code = 001.
  - measure condition 2: condition code = JB, sequence number = 333, action code = 001.

#### Transaction 4:

- Message 1: Insert an unstable measure condition code with condition code = JC, start date = 2009-01-01:

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

Transaction 5:

- Message 1: Insert a stable measure condition code with condition code = *JD*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJD*.
  - description 2: language id = *FR*, description = *French Description of MCCJD*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJD*.

Transaction 6:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ANC*, footnote id = *00300*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *JC*, action code = *001*.

Transaction 7:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, end date = *2010-12-01*, condition code = *JD*, action code = *001*.

**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\_mcc\_update\_01.xml

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**Precondition:** Make sure the dm\_mcc\_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 measure condition code with condition code = *JA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

**Transaction 2:**

- Message 1: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = *=*, constant = *JA*.

**Transaction 3:**

- Message 1: Update the unstable measure condition code with condition code = *JA*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

**Transaction 4:**

- Message 1: Update the unstable measure condition code with condition code = *JA*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

**Transaction 5:**

- Message 1: Update the unstable measure condition code

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with condition code = *JC*, start date = *2009-04-01*, end date = *2009-12-31*:

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

**Expected output:**

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

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

**Reply to transaction 4:**

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

**Reply to transaction 5:**

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

**Message:**

**dm\_mcc\_update\_02.xml**

**Precondition:**

Make sure the dm\_mcc\_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 measure condition code with condition code = *JA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

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Transaction 2:

- Message 1: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JA*.

Transaction 3:

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

Transaction 4:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 5:

- Message 1: Update the stable measure condition code with condition code = *JC*, start date = *2009-04-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MCCJC*.
  - description 2: language id = *FR*, description = *French Description of MCCJC*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJC*.

**Expected output:**

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

Reply to transaction 1:

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

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Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

**Message:**            **dm\_mcc\_update\_03.xml**

**Precondition:**    Make sure the dm\_mcc\_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 measure condition code with condition code = *JB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCCJB*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB*.

Transaction 2:

- Message 1: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JB*.

Transaction 3:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCCJB*.
  - description 3: language id = *NL*, description =

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*Dutch Description of MCCJB.*

Transaction 4:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MCCJB.*
  - description 2: language id = *FR*, description = *French Description of MCCJB.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB.*

Transaction 5:

- Message 1: Update the stable measure condition code with condition code = *JD*, start date = *2009-04-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description of MCCJD.*
  - description 2: language id = *FR*, description = *French Description of MCCJD.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJD.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

**Message:**

**dm\_mcc\_update\_04.xml**

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**Precondition:** Make sure the dm\_mcc\_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 measure condition code with condition code = *ZZ*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

**Transaction 2:**

- Message 1: Update the unstable measure condition code with condition code = *JB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

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

**Message:** **dm\_mcc\_update\_05.xml**

**Precondition:** Make sure the dm\_mcc\_update\_setup\_01.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

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Transaction 1:

- Message 1: Update the stable measure condition code with condition code = *ZZ*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

- Message 1: Update the stable measure condition code with condition code = *JA*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on measure.condition.code.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.

**Message:**

**dm\_mcc\_update\_06.xml**

**Precondition:**

Make sure the dm\_mcc\_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 measure condition code with condition code = *YY*, start date = *2008-01-01*:

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

Transaction 2:

- Message 1: Update the stable measure condition code with condition code = *JB*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Expected output:

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

Reply to transaction 1:

- Message 1, on measure.condition.code.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.

**2.4.4. Test case dm\_mcc\_delete: Deletion of a measure condition code**

Message: **dm\_mcc\_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\_measure\_condition\_code\_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 measure condition code with condition code = *JE*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description =

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*English Description of MCCJE.*

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

Transaction 2:

- Message 1: Insert a stable measure condition code with condition code = *JF*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJF.*
  - description 2: language id = *FR*, description = *French Description of MCCJF.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJF.*

Transaction 3:

- Message 1: Insert a stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of MCCJA.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 4:

- Message 1: Insert a stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB.*
  - description 2: language id = *FR*, description = *French Description of MCCJB.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB.*

Transaction 5:

- Message 1: Insert a stable country with country id = *BE*, start date = *1900-01-01*, area code = *0*:
  - description period 1: start date = *1900-01-01*:
    - description 1: language id = *EN*, description = *English Description of*

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*country group.*

- description 2: language id = *FR*, description = *French Description of country group.*
  - description 3: language id = *NL*, description = *Dutch Description of country group.*
- Message 2: Insert a stable measure type series with measure type series id = *AA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of M. Type AA.*
  - description 2: language id = *FR*, description = *French Description of M. Type AA.*
  - description 3: language id = *NL*, description = *Dutch Description of M. Type AA.*

measure type combination = *0*.

- Message 3: Insert a stable regulation group with regulation group id = *GGA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of regulation group.*
  - description 2: language id = *FR*, description = *French Description of regulation group.*
  - description 3: language id = *NL*, description = *Dutch Description of regulation group.*

- Message 4: Insert a stable measure type with measure type id = *001*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2009-01-01*.

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

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- Message 5: Insert a stable regulation role type with regulation role type id = 1, start date = 2007-01-01:
  - description 1: language id = EN, description = *English Description of unit qualifier.*
  - description 2: language id = FR, description = *French Description of unit qualifier.*
  - description 3: language id = NL, description = *Dutch Description of unit qualifier.*
- Message 6: 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 7: Insert a stable measure with measure type id = 001, geographical area id = BE, goods nomenclature id = 0101010100, productline suffix = 80, order number = 123456, start date = 2009-01-01, measure sid = 33323000, regulation id = R0801010, regulation role type = 1:
  - measure condition 1: condition code = JA, sequence number = 332, action code = 001.
  - measure condition 2: condition code = JB, sequence number = 333, action code = 001.

Transaction 6:

- Message 1: Insert an unstable measure condition code with condition code = JC, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MCCJC.*
  - description 2: language id = FR, description = *French Description of MCCJC.*
  - description 3: language id = NL, description = *Dutch Description of MCCJC.*

Transaction 7:

- Message 1: Insert an unstable measure condition code with condition code = JD, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description of MCCJD.*
  - description 2: language id = FR, description = *French Description of MCCJD.*
  - description 3: language id = NL, description =

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*Dutch Description of MCCJD.*

Transaction 8:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ANC*, footnote id = *00300*, start date = *2009-01-01*, condition code = *JC*, action code = *001*.

Transaction 9:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, condition code = *JD*, action code = *001*.

**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\_mcc\_delete\_01.xml**

**Precondition:**

Make sure the message dm\_mcc\_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 measure condition code with condition code = *JE*.

Transaction 2:

- Message 1: Delete the measure condition code with condition code = *JF*.

Transaction 3:

- Message 1: Request the measure condition code with

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query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JE*.

- Message 2: Request the measure condition code with query space field = *MEASURE CONDITION CODE.MEASURE CONDITION CODE REF.Condition code*, operator = =, constant = *JF*.

Transaction 4:

- Message 1: Delete the measure condition code with condition code = *JE*.

Transaction 5:

- Message 1: Delete the measure condition code with condition code = *JF*.

Transaction 6:

- Message 1: Delete the measure condition code with condition code = *JA*.

Transaction 7:

- Message 1: Delete the measure condition code with condition code = *JB*.

Transaction 8:

- Message 1: Delete the measure condition code with condition code = *JC*.

Transaction 9:

- Message 1: Delete the measure condition code with condition code = *JD*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on measure.condition.code.ref : VR-VI-3:

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Data to be deleted must exist.

Reply to transaction 6:

- Message 1, on measure.condition.code.ref : VR-MCC-7:  
The measure condition code cannot be deleted if it is used in a measure condition.

Reply to transaction 7:

- Message 1, on measure.condition.code.ref : VR-MCC-7:  
The measure condition code cannot be deleted if it is used in a measure condition.

Reply to transaction 8:

- Message 1, on measure.condition.code.ref : VR-MCC-6:  
A measure condition code cannot be deleted if used in a dynamic footnote association.

Reply to transaction 9:

- Message 1, on measure.condition.code.ref : VR-MCC-6:  
A measure condition code cannot be deleted if used in a dynamic footnote association.

**2.4.5. Test case dm\_mcc\_di\_update: Update of a measure condition code description**

**Message:** dm\_mcc\_di\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose *init\_measure\_condition\_code\_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 measure condition code with condition code = *JA*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 2:

- Message 1: Insert a stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description =

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*English Description of MCCJB.*

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

**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\_mcc\_di\_update\_01.xml**

**Precondition:** Make sure the dm\_mcc\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of MCC-JA.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 2:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of "MCCJA.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 3:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description =

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*English Description of MCCJA.*

- description 2: language id = *FR*, description = *123456789012 3456789012345678901... (more than 500 characters).*
- description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 4:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of MCCJA one.*
  - description 3: language id = *FR*, description = *French Description of MCCJA two.*
  - description 4: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 5:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of MCCJA.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*
  - description 4: language id = *XX*, description = *XX Description of MCCJA.*

Transaction 6:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description / of MCCJA.*
  - description 2: language id = *FR*, description = *French Description of MCCJA.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 7:

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- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 8:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA g*.
  - description 2: language id = *FR*, description = *French Description of MCCJA kg.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA kg;*.

Transaction 9:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA g*.
  - description 2: language id = *FR*, description = *French Description of MCCJA l.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

**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-



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- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCC-JA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 2:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of "MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 3:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Descriptionaaaaaaaaaaaaa... (1500 characters)*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

Transaction 4:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA one*.
  - description 3: language id = *FR*, description = *French Description of MCCJA two*.
  - description 4: language id = *NL*, description = *Dutch Description of MCCJA*.

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#### Transaction 5:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.
  - description 4: language id = *XX*, description = *XX Description of MCCJA*.

#### Transaction 6:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description / of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

#### Transaction 7:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA*.
  - description 2: language id = *FR*, description = *French Description of MCCJA*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA*.

#### Transaction 8:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA g*.
  - description 2: language id = *FR*, description = *French Description of MCCJA kg*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA kg*.

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Transaction 9:

- Message 1: Update the stable measure condition code with condition code = *JA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJA g.*
  - description 2: language id = *FR*, description = *French Description of MCCJA l.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJA.*

Transaction 1:

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

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

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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.

Reply to transaction 9:

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

**Message:**            **dm\_mcc\_di\_update\_03.xml**

**Precondition:**    Make sure the dm\_mcc\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:**            The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCC-JB*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB*.

Transaction 2:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of "MCCJB*.

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

Transaction 3:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Descriptionaaaaaaaaaaaa... (1500 characters)*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB*.

Transaction 4:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCCJB one*.
  - description 3: language id = *FR*, description = *French Description of MCCJB two*.
  - description 4: language id = *NL*, description = *Dutch Description of MCCJB*.

Transaction 5:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB*.
  - description 2: language id = *FR*, description = *French Description of MCCJB*.
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB*.
  - description 4: language id = *XX*, description = *XX Description of MCCJB*.

Transaction 6:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description =

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*English Description / of MCCJB.*

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

Transaction 7:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB.*
  - description 2: language id = *FR*, description = *French Description of MCCJB:.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB.*

Transaction 8:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB g.*
  - description 2: language id = *FR*, description = *French Description of MCCJB kg..*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB kg;.*

Transaction 9:

- Message 1: Update the stable measure condition code with condition code = *JB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description of MCCJB g.*
  - description 2: language id = *FR*, description = *French Description of MCCJB l,.*
  - description 3: language id = *NL*, description = *Dutch Description of MCCJB.*

**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:

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- 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 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.

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## 2.1. Measure type series

### 2.1.1. Test case *init\_ref\_mts\_setup*: Insertion of Measure type series reference data

**Message:** *init\_ref\_measure\_type\_series\_setup.xml*

**Precondition:** First, make sure the database is empty.

**Content:** The message is composed of the following transactions:

Transaction 1:

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

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

Reply to transaction 1: Status ok.

### 2.1.2. Test case *dm\_mts\_insert*: Insertion of a measure type series

**Message:** *dm\_mts\_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\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measure type series with measure type series id = *SA*:
  - description 1: language id = *EN*, description =

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*English Description.*

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

measure type combination = 0.

Transaction 2:

- Message 1: Request the measure type series with query space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = =, constant = *SA*.

Transaction 3:

- Message 1: Insert an unstable measure type series with measure type series id = *SA*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 4:

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

measure type combination = 0.

Transaction 5:

- Message 1: Insert an unstable measure type series with measure type series id = *11*, start date = *2008/7/89*:
  - description 1: language id = *ENI*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*

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

measure type combination = 0.

Transaction 6:

- Message 1: Insert an unstable measure type series with measure type series id = *SB*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = 0.

Transaction 7:

- Message 1: Insert an unstable measure type series with measure type series id = *SB*:
  - description 1: language id = *FR*, description = *French Description*.
  - description 2: language id = *NL*, description = *Dutch Description*.

measure type combination = 0.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.type.series.ref : VR-MTS-1: The measure type series must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

**Message:** dm\_mts\_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\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable measure type series with measure type series id = SC, start date = 2009-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
- measure type combination = 0.

Transaction 2:

- Message 1: Request the measure type series with query space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = =, constant = SC.

Transaction 3:

- Message 1: Insert an unstable measure type series with measure type series id = SC:
  - description 1: language id = EN, description =

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*English Description.*

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

measure type combination = 0.

Transaction 4:

- Message 1: Insert a stable measure type series with measure type series id = *SC*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 5:

- Message 1: Insert a stable measure type series with measure type series id = *11*, start date = *2008/7/89*:
  - description 1: language id = *ENI*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 6:

- Message 1: Insert a stable measure type series with measure type series id = *SD*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

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Transaction 7:

- Message 1: Insert a stable measure type series with measure type series id = *SD*, start date = *2009-01-01*:
    - description 1: language id = *FR*, description = *French Description*.
    - description 2: language id = *NL*, description = *Dutch Description*.
- measure type combination = *0*.

**Expected output:**

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

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.type.series.ref : VR-MTS-1: The measure type series must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on measure.type.series.ref : VR-MTS-1: The measure type series must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

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**Message:**            **dm\_mts\_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\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

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

measure type combination = *0*.

**Transaction 2:**

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

measure type combination = *0*.

**Transaction 3:**

- Message 1: Insert an unstable measure type series with measure type series id = *SB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench*

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*DescriptionFrench DescriptionFrench  
DescriptionFrench Description.*

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

measure type combination = 0.

Transaction 4:

- Message 1: Insert an unstable measure type series with measure type series id = *SB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *FR*, description = *Second French Description.*
  - description 4: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 5:

- Message 1: Insert an unstable measure type series with measure type series id = *SB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *XX*, description = *Description for a non existent language.*
  - description 4: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 6:

- Message 1: Insert an unstable measure type series with measure type series id = *SB*, start date = *2008-01-01*:

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

measure type combination = 0.

Transaction 7:

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

measure type combination = 0.

Transaction 8:

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

measure type combination = 0.

Transaction 9:

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

measure type combination = 0.

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**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

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

**Message:**            **dm\_mts\_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\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:**            The message is composed of the following transactions:

Transaction 1:

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

measure type combination = *0*.

Transaction 2:

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

measure type combination = *0*.

Transaction 3:



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*French Description.*

- description 3: language id = *XX*, description = *Description for a non existent language.*
- description 4: language id = *NL*, description = *Dutch Description.*

measure type combination = 0.

Transaction 6:

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

measure type combination = 0.

Transaction 7:

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

measure type combination = 0.

Transaction 8:

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

measure type combination = 0.

Transaction 9:

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

measure type combination = *0*.

Transaction 10:

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

measure type combination = *0*.

**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.

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Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

**2.1.3. Test case dm\_mts\_update: Update of a measure type series**

**Message:** dm\_mts\_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\_measure\_type\_series\_setup.xml* message should be

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successfully processed by the system.

**Content:**

The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert an unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

**Transaction 2:**

- Message 1: Insert a stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

**Transaction 3:**

- Message 1: Insert an unstable measure type with measure type id = *000000*, start date = *2009-01-01*, end date = *2010-12-31*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *SA*, 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 4:**

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- Message 1: Insert a stable measure type with measure type id = 000001, start date = 2009-01-01, end date = 2010-12-31:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

measure type series id = SB, 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.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

**Message:** dm\_mts\_update\_01.xml

**Precondition:** Make sure the dm\_mts\_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 measure type series with measure type series id = SA, 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*.

measure type combination = 0.

Transaction 2:

- Message 1: Request the measure type series with query

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space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = =,  
constant = SA.

Transaction 3:

- Message 1: Update the unstable measure type series with measure type series id = SA, start date = 2008-01-01, end date = 2007-04-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 4:

- Message 1: Update the unstable measure type series with measure type series id = SA, start date = 2009-01-01, end date = 2009-12-31:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*

measure type combination = 0.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

**Message:**      **dm\_mts\_update\_02.xml**

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**Precondition:** Make sure the dm\_mts\_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 measure type series with measure type series id = SA, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description MTS code SA updated.*
  - description 2: language id = FR, description = *French Description MTS code SA updated.*
  - description 3: language id = NL, description = *Dutch Description MTS code SA updated.*

measure type combination = 0.

**Transaction 2:**

- Message 1: Request the measure type series with query space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = =, constant = SA.

**Transaction 3:**

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

measure type combination = 0.

**Transaction 4:**

- Message 1: Update the stable measure type series with measure type series id = SA, start date = 2009-01-01, end date = 2009-12-31:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*
  - description 3: language id = NL, description =

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*Dutch Description updated.*

measure type combination = 0.

**Expected output:**

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

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

**Reply to transaction 4:**

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

**Message:**

**dm\_mts\_update\_03.xml**

**Precondition:**

Make sure the dm\_mts\_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 measure type series with measure type series id = *SB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description for the MTS code SB updated.*
  - description 2: language id = *FR*, description = *French Description for the MTS code SB updated.*
  - description 3: language id = *NL*, description = *Dutch Description for the MTS code SB updated.*

measure type combination = 0.

**Transaction 2:**

- Message 1: Request the measure type series with query space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = *=*, constant = *SB*.

**Transaction 3:**

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- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description 1: language id = *EN*, description = *English Description for the MTS code SB updated.*
  - description 2: language id = *FR*, description = *French Description for the MTS code SB updated.*
  - description 3: language id = *NL*, description = *Dutch Description for the MTS code SB updated.*

measure type combination = *0*.

Transaction 4:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description for the MTS code SB updated.*
  - description 2: language id = *FR*, description = *French Description for the MTS code SB updated.*
  - description 3: language id = *NL*, description = *Dutch Description for the MTS code SB updated.*

measure type combination = *0*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on measure.type.series.ref : VR-MTS-3: The validity period of the measure type series must span the validity period of all related stable measure types.

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**Message:**            **dm\_mts\_update\_04.xml**

**Precondition:**    Make sure the dm\_mts\_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 measure type series with measure type series id = *ZZ*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

**Transaction 2:**

- Message 1: Update the unstable measure type series with measure type series id = *SB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

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

**Message:**            **dm\_mts\_update\_05.xml**

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**Precondition:** Make sure the dm\_mts\_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 measure type series with measure type series id = ZZ, start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
- measure type combination = 0.

**Transaction 2:**

- Message 1: Update the stable measure type series with measure type series id = SA:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
- measure type combination = 0.

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

**Reply to transaction 1:**

- Message 1, on measure.type.series.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.

**Message:** dm\_mts\_update\_06.xml

**Precondition:** Make sure the dm\_mts\_update\_setup\_01.xml message has been

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successfully processed.

**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable measure type series with measure type series id = *ZZ*, start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
- measure type combination = *0*.

**Transaction 2:**

- Message 1: Update the stable measure type series with measure type series id = *SB*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
- measure type combination = *0*.

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

**Reply to transaction 1:**

- Message 1, on measure.type.series.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.

**2.1.4. Test case dm\_mts\_delete: Deletion of a measure type series**

**Message:** dm\_mts\_delete\_setup\_01.xml

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**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Insert an unstable measure type series with measure type series id = *SC*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type series with code SC*.
  - description 2: language id = *FR*, description = *French Description for measure type series with code SC*.
  - description 3: language id = *NL*, description = *Dutch Description for measure type series with code SC*.

measure type combination = *0*.

**Transaction 2:**

- Message 1: Insert a stable measure type series with measure type series id = *SD*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type series with code SD*.
  - description 2: language id = *FR*, description = *French Description for measure type series with code SD*.
  - description 3: language id = *NL*, description = *Dutch Description for measure type series with code SD*.

measure type combination = *0*.

**Transaction 3:**

- Message 1: Insert a stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type series with code SA*.
  - description 2: language id = *FR*, description = *French Description for measure type series with*

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*code SA.*

- description 3: language id = *NL*, description = *Dutch Description for measure type series with code SA.*

measure type combination = 0.

Transaction 4:

- Message 1: Insert a stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type series with code SB.*
  - description 2: language id = *FR*, description = *French Description for measure type series with code SB.*
  - description 3: language id = *NL*, description = *Dutch Description for measure type series with code SB.*

measure type combination = 0.

Transaction 5:

- Message 1: Insert an unstable measure type with measure type id = *000000*, start date = *2009-01-01*, end date = *2010-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type 000000.*
  - description 2: language id = *FR*, description = *French Description for measure type 000000.*
  - description 3: language id = *NL*, description = *Dutch Description for measure type 000000.*

measure type series id = *SA*, 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 6:

- Message 1: Insert a stable measure type with measure type id = *000001*, start date = *2009-01-01*, end date = *2010-01-01*:
  - description 1: language id = *EN*, description = *English Description for measure type 000001.*
  - description 2: language id = *FR*, description =

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*French Description for measure type 000001.*

- description 3: language id = *NL*, description = *Dutch Description for measure type 000001.*

measure type series id = *SB*, 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*.

**Expected  
output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

**Message:** **dm\_mts\_delete\_01.xml**

**Precondition:** Make sure the message dm\_mts\_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 measure type series with measure type series id = *SC*.

Transaction 2:

- Message 1: Delete the measure type series with measure type series id = *SD*.

Transaction 3:

- Message 1: Request the measure type series with query space field = *MEASURE TYPE SERIES.MEASURE TYPE SERIES REF.Measure type series id*, operator = *IN*, constant = (*SC*, *SD*).

Transaction 4:

- Message 1: Delete the measure type series with measure type series id = *SC*.

Transaction 5:

- Message 1: Delete the measure type series with measure

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type series id = *SD*.

Transaction 6:

- Message 1: Delete the measure type series with measure type series id = *SA*.

Transaction 7:

- Message 1: Delete the measure type series with measure type series id = *SB*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1 : OK.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure.type.series.ref : VR-MTS-5: A measure type series cannot be deleted if it is used in a measure type.

Reply to transaction 7:

- Message 1, on measure.type.series.ref : VR-MTS-5: A measure type series cannot be deleted if it is used in a measure type.

**2.1.5. Test case dm\_mts\_di\_update: Update of a measure type series description**

**Message:** dm\_mts\_di\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_measure\_type\_series\_setup.xml* message should be successfully processed by the system.

**Content:** The message is composed of the following transactions:

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Transaction 1:

- Message 1: Insert an unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

Transaction 2:

- Message 1: Insert a stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type combination = *0*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

**Message:** **dm\_mts\_di\_update\_01.xml**

**Precondition:** Make sure the dm\_mts\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *-*.

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

measure type combination = 0.

Transaction 2:

- Message 1: Update the unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *"*.
  - description 3: language id = *NL*, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 3:

- Message 1: Update the unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *Test with a multilingual text description which contains more than 500 characters: ....*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 4:

- Message 1: Update the unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *FR*, description = *Second French Description.*
  - description 4: language id = *NL*, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 5:

- Message 1: Update the unstable measure type series with

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measure type series id = SA, start date = 2009-01-01:

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

measure type combination = 0.

Transaction 6:

- Message 1: Update the unstable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 7:

- Message 1: Update the unstable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *.*
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 8:

- Message 1: Update the unstable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *l.*
  - description 2: language id = FR, description = *l l test.*

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- description 3: language id = *NL*, description = *l*;

measure type combination = *0*.

Transaction 9:

- Message 1: Update the unstable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *Test kg. update.*
  - description 2: language id = *FR*, description = *kg test.*
  - description 3: language id = *NL*, description = *kg; test.*

measure type combination = *0*.

Transaction 1:

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

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 '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 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: dm\_mts\_di\_update\_02.xml**

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**Precondition:** Make sure the dm\_mts\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:** The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = -.
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 2:

- Message 1: Update the stable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = ".
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 3:

- Message 1: Update the stable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *Test with a multilingual text description which contains more than 500 characters:....*
  - description 3: language id = NL, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 4:

- Message 1: Update the stable measure type series with measure type series id = SA, start date = 2009-01-01:
  - description 1: language id = EN, description =

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*English Description updated.*

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

measure type combination = 0.

Transaction 5:

- Message 1: Update the stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description updated*.
  - description 4: language id = *XX*, description = *XX Description*.

measure type combination = 0.

Transaction 6:

- Message 1: Update the stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description updated*.

measure type combination = 0.

Transaction 7:

- Message 1: Update the stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *.*

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

measure type combination = 0.

Transaction 8:

- Message 1: Update the stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *l.*
  - description 2: language id = *FR*, description = *l l test.*
  - description 3: language id = *NL*, description = *l l;*

measure type combination = 0.

Transaction 9:

- Message 1: Update the stable measure type series with measure type series id = *SA*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *l kg..*
  - description 2: language id = *FR*, description = *l kg test.*
  - description 3: language id = *NL*, description = *l kg;*

measure type combination = 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

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moment, there is at most one description in a given language.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

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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:**            **dm\_mts\_di\_update\_03.xml**

**Precondition:**    Make sure the dm\_mts\_di\_update\_setup\_01.xml message has been successfully processed.

**Content:**            The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *-*.
  - description 3: language id = *NL*, description = *Dutch Description updated.*

measure type combination = *0*.

**Transaction 2:**

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *"*.
  - description 3: language id = *NL*, description = *Dutch Description updated.*

measure type combination = *0*.

**Transaction 3:**

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *Test with a multilingual text description which*

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*contains more than 500 characters: ....*

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

measure type combination = 0.

Transaction 4:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *FR*, description = *Second French Description.*
  - description 4: language id = *NL*, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 5:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*
  - description 4: language id = *XX*, description = *XX Description.*

measure type combination = 0.

Transaction 6:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

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measure type combination = 0.

Transaction 7:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *:*.
  - description 3: language id = *NL*, description = *Dutch Description updated.*

measure type combination = 0.

Transaction 8:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *l.*
  - description 2: language id = *FR*, description = *l l test.*
  - description 3: language id = *NL*, description = *l l;.*

measure type combination = 0.

Transaction 9:

- Message 1: Update the stable measure type series with measure type series id = *SB*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *l kg.*
  - description 2: language id = *FR*, description = *l kg test.*
  - description 3: language id = *NL*, description = *l kg;.*

measure type combination = 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

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MEASURE TYPE SERIES	

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-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:

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- 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.

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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 <sup>1</sup>	n1.n2.n3
ClearCase label <sup>2</sup>	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_nig_unstable_insert	Status
Message id	dm_nig_unstable_insert_01.xml	Status
Transaction id	Status	Comment
1		
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<sup>1</sup> This information must only be filled in for testing of official delivery (e.g. 1.0.0).

<sup>2</sup> This information is only available to the development team and identifies the tested internal version.

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TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

27

28

Message id	dm_nig_unstable_insert_02.xml	Status
Transaction id	Status	Comment
1		
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Test case id	dm_nig_unstable_update	Status
Message id	dm_nig_unstable_update_01.xml	Status
Transaction id	Status	Comment
1		
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15		
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17		
18		

Message id	dm_nig_unstable_update_02.xml	Status
Transaction id	Status	Comment
1		
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4		
5		
6		
7		
8		
9		
10		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29

Test case id	dm_nig_unstable_delete	Status
Message id	dm_nig_unstable_delete_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12

Test case id	dm_nig_stable_insert	Status
Message id	dm_ref_nig_stable_insert_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
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- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 18
- 19
- 20
- 21
- 22
- 23
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- 35
- 36
- 37
- 38

Message id	dm_ref_nig_stable_insert_02.xml	Status
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Transaction id	Status	Comment
1		
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Test case id	dm_nig_unstable_stable_update	Status
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Message id	dm_nig_unstable_stable_update_01.xml	Status
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Transaction id	Status	Comment
1		
2		
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4		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 5
- 6
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- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28

Message id	dm_nig_unstable_stable_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
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29		

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TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 30
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- 34
- 35
- 36
- 37
- 38
- 39
- 40
- 41
- 42
- 43
- 44
- 45
- 46
- 47
- 48

Test case id	dm_nig_stable_update	Status
Message id	dm_nig_stable_update_01.xml	Status
Transaction id	Status	Comment

- 1
- 2
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- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28

Message id	dm_nig_stable_update_02.xml	Status
Transaction id	Status	Comment

- 1
- 2

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 3
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- 10
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- 12
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- 14
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- 40
- 41

Test case id	dm_nig_stable_delete	Status
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Message id	dm_nig_stable_delete_01.xml	Status
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Transaction id	Status	Comment
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- 1
- 2
- 3
- 4
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- 8
- 9
- 10
- 11
- 12

Message id	dm_nig_stable_delete_02.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

- 1
- 2
- 3
- 4
- 5

Test case id	dm_mac_insert	Status
Message id	dm_mac_insert_01.xml	Status

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_mac_insert_02.xml	Status
Transaction id	Status	Comment

1		
2		
3		
4		
5		
6		
7		

Message id	dm_mac_insert_03.xml	Status
Transaction id	Status	Comment

1		
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7		
8		
9		

Message id	dm_mac_insert_04.xml	Status
Transaction id	Status	Comment

1		
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6		
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8		
9		
10		

Test case id	dm_mac_update	Status
Message id	dm_mac_update_setup_01.xml	Status

Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4  
5

Message id	dm_mac_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_mac_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_mac_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_mac_update_04.xml	Status
Transaction id	Status	Comment
1		
2		

Message id	dm_mac_update_05.xml	Status
Transaction id	Status	Comment
1		
2		

Message id	dm_mac_update_06.xml	Status
Transaction id	Status	Comment
1		
2		

Test case id	dm_mac_delete	Status
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Message id	dm_mac_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
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5		
6		
7		

Message id	dm_mac_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4  
5  
6  
7  
8  
9

Test case id	dm_mac_di_update	Status
Message id	dm_mac_di_update_setup_01.xml	Status
Transaction id	Status	Comment
	1	

Message id	dm_mac_di_update_01.xml	Status
Transaction id	Status	Comment
	1	

2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_mac_di_update_02.xml	Status
Transaction id	Status	Comment
	1	

2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_mac_di_update_03.xml	Status
Transaction id	Status	Comment
	1	

2  
3  
4  
5  
6  
7  
8  
9

Test case id	dm_mcc_insert	Status
Message id	dm_mcc_insert_01.xml	Status
Transaction id	Status	Comment
	1	

2  
3  
4  
5  
6  
7

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_mcc_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_mcc_insert_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_mcc_insert_04.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Test case id	dm_mcc_update	Status
Message id	dm_mcc_update_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		

Message id	dm_mcc_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_mcc_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4  
5  
6

Message id	dm_mcc_update_03.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_mcc_update_04.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
1		
2		

Message id	dm_mcc_update_05.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
1		
2		

Message id	dm_mcc_update_06.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
1		
2		

Test case id	dm_mcc_delete	Status
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Message id	dm_mcc_delete_setup_01.xml	Status
------------	----------------------------	--------

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_mcc_delete_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Test case id	dm_mcc_di_update	Status
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Message id	dm_mcc_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		

Message id	dm_mcc_di_update_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4  
5  
6  
7  
8  
9

Message id	dm_mcc_di_update_02.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_mcc_di_update_03.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9

Test case id	dm_mts_insert	Status
Message id	dm_mts_insert_01.xml	Status

Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5  
6  
7

Message id	dm_mts_insert_02.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7

Message id	dm_mts_insert_03.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5  
6  
7  
8  
9

Message id	dm_mts_insert_04.xml	Status
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Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

Test case id	dm_mts_update	Status
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Message id	dm_mts_update_setup_01.xml	Status
------------	----------------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5

Message id	dm_mts_update_01.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5

Message id	dm_mts_update_02.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5

Message id	dm_mts_update_03.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1  
2  
3  
4  
5

Message id	dm_mts_update_04.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1  
2

Message id	dm_mts_update_05.xml	Status
------------	----------------------	--------

Transaction id	Status	Comment
----------------	--------	---------

1

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

2

Message id	dm_mts_update_06.xml	Status
Transaction id	Status	Comment

1

2

Test case id	dm_mts_delete	Status
Message id	dm_mts_delete_setup_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

Message id	dm_mts_delete_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

7

Test case id	dm_mts_di_update	Status
Message id	dm_mts_di_update_setup_01.xml	Status
Transaction id	Status	Comment

1

Message id	dm_mts_di_update_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

7

8

9

Message id	dm_mts_di_update_02.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

7

8

9

Message id	dm_mts_di_update_03.xml	Status
Transaction id	Status	Comment

1

2

3

4

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5  
6  
7  
8  
9

Test case id	dm_ref_ce_insert	Status
Message id	dm_ce_insert_01.xml	Status

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

Message id	dm_ce_insert_02.xml	Status
Transaction id	Status	Comment

1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		

Message id	dm_ce_insert_03.xml	Status
Transaction id	Status	Comment

1		
2		

Message id	dm_ce_di_insert_01.xml	Status
Transaction id	Status	Comment

1		
2		
3		
4		
5		
6		
7		
8		
9		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ce_di_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Test case id	dm_ref_ce_update	Status
Message id	dm_ce_update_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		

Message id	dm_ce_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Message id	dm_ce_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Message id	dm_ce_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		

DG TAXUD – TARIC3-STP – System Test Plan - Part 6	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

4  
5  
6  
7  
8  
9  
10

Message id	dm_ce_update_04.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		

Message id	dm_ce_update_05.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		

Test case id	dm_ref_ce_delete	Status
Message id	dm_ce_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

Message id	dm_ce_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		