

ORIGINATOR: DG TAXUD	ISSUE DATE: 30/05/2011	VERSION: 3.21-EN
<p style="text-align: center;"><b>SUBJECT:</b></p> <p style="text-align: center;"><b>TARIC3-STP</b></p> <p style="text-align: center;"><b>System Test Plan - Part 2</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	§2.1.4, §2.1.5, §2.2.4, §2.3.4 (expected output), §2.3.5, §2.4.4, §2.5.5, §2.6.4
2	00	18/05/2010	Sent for Acceptance.	Update	As requested
2	01	29/10/2010	Sent for Internal Review	Update	2.4.1; 2.4.4
2	10	29/10/2010	Sent for Review to DG TAXUD	-	-
3	00	18/11/2010	Sent for Acceptance to DG TAXUD	-	-

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EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
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
3	21	30/05/2011	Re-submitted for acceptance	Update	TOC

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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:

- Regulation role type;
- Regulation group;
- Export Refund Nomenclature;
- Monetary unit;
- Certificate type;
- Footnote type.

### 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

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

### **1.5. Reference documents**

[TARIC3-FTS]	“TARIC3 - Functional Test Scenarios 2.00”, Ref. TARIC3-FTS
[TARIC3-ITP]	“TARIC3 - Test Plan Introduction 7.10”, Ref. TARIC3-ITP
[TARIC3-STP]	“TARIC3 – System Test Plan - Master”, Ref. TARIC3-STP

### **1.6. Applicable documents**

[ARCH]	“Tariff Application Technical Architecture Framework 6.00”, Ref. TATAF
[TARIC3-FS]	“TARIC3 Functional Specifications 3.00”, Ref. TARIC3-FS
[TARIC3-UI]	“TARIC3-UIS - User Interface Specification 2.00 Ref. TARIC3-UI

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## 2. DATA MAINTENANCE

### 2.1. Regulation role type

#### 2.1.1. Test case dm\_ref\_rt\_insert: Insertion of a Regulation Role Type

**Message:** dm\_ref\_rt\_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\_languages.xml* message should be successfully processed by the system.

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

##### Transaction 1:

- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

##### Transaction 2:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id*, operator = =, constant = 1.

##### Transaction 3:

- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

##### Transaction 4:

- Message 1: Insert an unstable regulation role type with regulation role type id = *Åµ1*, start date = 2008/02:
  - description 1: language id = *EN1*, description =

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*English Description.*

- description 2: language id = *FR2*, description = *French Description.*
- description 3: language id = *NL3*, description = *Dutch Description.*

Transaction 5:

- Message 1: Insert an unstable regulation role type with regulation role type id = 2, start date = 2008-02-01, end 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.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.role.type.ref : VR-RT-1: The regulation role type ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on regulation.role.type.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on stability.flag : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.



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#### Reply to transaction 5:

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

**Message:** dm\_ref\_rt\_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\_languages.xml* message should be successfully processed by the system.

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

#### Transaction 1:

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

#### Transaction 2:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id*, operator = =, constant = 1.

#### Transaction 3:

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

#### Transaction 4:

- Message 1: Insert a stable regulation role type with regulation role type id =  $\hat{\mu}1$ , start date = 2008/02:
  - description 1: language id = EN1, description =

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*English Description.*

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

Transaction 5:

- Message 1: Insert a stable regulation role type with regulation role type id = 2, start date = 2008-02-01, end 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.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on regulation.role.type.ref : VR-RT-1: The regulation role type ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

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

Reply to transaction 5:

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

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date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.

**Message:** **dm\_ref\_rt\_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\_languages.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Insert a stable regulation role type with regulation role type id = 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.

### 2.1.2. Test case dm\_ref\_rt\_di\_insert: Insert of a Regulation Role Type description

**Message:** **dm\_ref\_rt\_di\_insert\_01.xml**

**Precondition**  
: Make sure the dm\_ref\_rt\_insert\_03.xml message has been successfully processed.

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

Transaction 1:

- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:

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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: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *"French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 3:

- Message 1: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:

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

#### Transaction 5:

- Message 1: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
  - description 4: language id = *XX*, description = *Description for nonexistent language XX*.

#### Transaction 6:

- Message 1: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 7:

- Message 1: Insert an unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 8:

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- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg..*
  - 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 regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English kg: Description.*
  - description 2: language id = FR, description = *French kg, Description.*
  - description 3: language id = NL, description = *Dutch Description.*

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

- Message 1, 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

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character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** **dm\_ref\_rt\_di\_insert\_02.xml**

**Precondition** Make sure the *dm\_ref\_rt\_di\_insert\_01.xml* message has been  
:

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

Transaction 1:

- Message 1: Insert a stable regulation role type with regulation role type id = 2, start date = 2008-02-01:

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

#### Transaction 3:

- Message 1: Insert a stable regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Insert a stable regulation role type with regulation role type id = 2, start date = 2008-02-01:



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

#### Transaction 5:

- Message 1: Insert a stable regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
  - description 4: language id = *XX*, description = *Description for nonexistent language XX*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

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

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

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

#### Reply to transaction 6:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab

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character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

### 2.1.3. Test case dm\_ref\_rt\_update: Update of a Regulation Role Type

**Message:** dm\_ref\_rt\_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\_regulation\_role\_type\_setup.xml* message should be successfully processed by the system.

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

Transaction 1:

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REGULATION ROLE TYPE	

- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

**Transaction 2:**

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

**Transaction 3:**

- Message 1: Insert an unstable regulation role type with regulation role type id = 3, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

**Message:**

**dm\_ref\_rt\_update\_01.xml**

**Precondition:**

Make sure the *dm\_ref\_rt\_update\_setup\_01.xml* message has been successfully processed.

**Content:**

The message is composed of the following transactions:

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REGULATION ROLE TYPE	

#### Transaction 1:

- Message 1: Update the unstable regulation role type with regulation role type id = 1, start date = 2008-02-01, end date = 2009-02-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*
  - description 3: language id = NL, description = *Dutch Description updated.*

#### Transaction 2:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id*, operator = =, constant = 1.

#### Transaction 3:

- Message 1: Update the unstable regulation role type with regulation role type id = 4, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

#### Transaction 4:

- Message 1: Update the unstable regulation role type with regulation role type id = 1, start date = 2008-02-01, end date = 2007-08-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

#### Transaction 5:

- Message 1: Update the unstable regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - 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*.

**Expected output:**

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

**Reply to transaction 1:**

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

**Reply to transaction 2:**

- Message 1 : OK.

**Reply to transaction 3:**

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

**Reply to transaction 4:**

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

**Reply to transaction 5:**

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

**Message:**

**dm\_ref\_rt\_update\_02.xml**

**Precondition:**

Make sure the *dm\_ref\_rt\_update\_01.xml* message has been successfully processed.

**Content:**

The message is composed of the following transactions:

**Transaction 1:**

- Message 1: Update the stable regulation role type with regulation role type id = *1*, start date = *2008-02-01*, end 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*.

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#### Transaction 2:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id*, operator = =, constant = 1.

#### Transaction 3:

- Message 1: Update the stable regulation role type with regulation role type id = 4, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Update the stable regulation role type with regulation role type id = 3, start date = 2008-02-01, end date = 2007-08-01:
  - 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 regulation.role.type.ref : OK.

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

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**Message:**            **dm\_ref\_rt\_update\_03.xml**

**Precondition:**    Make sure the *dm\_ref\_rt\_update\_02.xml* message has been successfully processed.

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

**Transaction 1:**

- Message 1: Update the stable regulation role type with regulation role type id = 2, start date = 2008-02-01, end 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 2:**

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id*, operator = =, constant = 2.

**Transaction 3:**

- Message 1: Update the stable regulation role type with regulation role type id = 4, start date = 2008-02-01, end date = 2008-08-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

**Transaction 4:**

- Message 1: Update the stable regulation role type with regulation role type id = 2, start date = 2008-02-01, end date = 2007-08-01:
  - 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.*

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

**Message:**

**dm\_ref\_rt\_update\_04.xml**

**Precondition:**

Make sure the *dm\_ref\_rt\_update\_03.xml* message has been successfully processed.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable regulation role type with regulation role type id = 1:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

Transaction 2:

- Message 1: Update the stable regulation role type with regulation role type id = 2:
  - 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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REGULATION ROLE TYPE	

*Dutch Description.*

Transaction 3:

- Message 1: Update the 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 4:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.Stability flag*, operator = =, constant = 0.

**Expected output:**

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

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1 : OK.

#### 2.1.4. Test case dm\_ref\_rt\_delete: Deletion of a Regulation Role Type

**Message:** dm\_ref\_rt\_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\_regulation\_role\_type\_setup.xml* message should be successfully processed by the system.

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

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REGULATION ROLE TYPE	

#### Transaction 1:

- Message 1: Insert a stable regulation group with regulation group id = *XYZ*, start date = *1999-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 1b:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *1999-01-01*, official journal number = *1*, official journal page = *1*.

#### Transaction 2:

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

#### Transaction 3:

- Message 1: Insert an unstable regulation role type with regulation role type id = *2*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

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

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REGULATION ROLE TYPE	

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

Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-02-01*, community code = *4*, regulation group id = *XYZ*, approved flag = *1*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 1b:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

**Message:**

**dm\_ref\_rt\_delete\_01.xml**

**Precondition:**

Make sure the message *dm\_ref\_rt\_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 regulation role type with regulation role type id = *3*.

Transaction 2:

- Message 1: Delete the regulation role type with regulation role type id = *2*.

Transaction 3:

- Message 1: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role*

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REGULATION ROLE TYPE	

*type id, operator = =, constant = 3.*

- Message 2: Request the regulation role type with query space field = *REGULATION ROLE TYPE.REGULATION ROLE TYPE REF.Regulation role type id, operator = =, constant = 2.*

Transaction 4:

- Message 1: Delete the regulation role type with regulation role type id = 3.

Transaction 5:

- Message 1: Delete the regulation role type with regulation role type id = 2.

Transaction 6:

- Message 1: Delete the regulation role type with regulation role type id = 1.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on regulation.role.type.ref : VR-RT-3: If the regulation role type is used in a role-regulation then it cannot be deleted.

**2.1.5. Test case dm\_ref\_rt\_di\_update: Update of a Regulation Role Type description**

**Message:** dm\_ref\_rt\_di\_update\_setup\_01.xml

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REGULATION ROLE TYPE	

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

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

**Transaction 1:**

- Message 1: Insert an unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

**Transaction 2:**

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

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

**Reply to transaction 1:** Status ok.

**Reply to transaction 2:** Status ok.

**Message:** **dm\_ref\_rt\_di\_update\_01.xml**

**Precondition**  
: Make sure the *dm\_ref\_rt\_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 regulation role type with regulation role type id = 1, start date = 2008-02-01:

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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 unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *"French Description"*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 3:

- Message 1: Update the unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Update the unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:

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

#### Transaction 5:

- Message 1: Update the unstable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
  - description 4: language id = *XX*, description = *Description for nonexistent language XX*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:



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- Message 1: Update the unstable regulation role type with regulation role type id = 1, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg..*
  - description 2: language id = FR, description = *French kg Description.*
  - description 3: language id = NL, description = *Dutch kg; Description.*

#### Transaction 9:

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

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

- Message 1, 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

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REGULATION ROLE TYPE	

character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:**      **dm\_ref\_rt\_di\_update\_02.xml**

**Precondition**      Make sure the *dm\_ref\_rt\_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 regulation role type with regulation role type id = 1, start date = 2008-02-01:

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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 regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *"French Description"*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 3:

- Message 1: Update the stable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Update the stable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:

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

#### Transaction 5:

- Message 1: Update the stable regulation role type with regulation role type id = *1*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
  - description 4: language id = *XX*, description = *Description for nonexistent language XX*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

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

#### Transaction 9:

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

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

- Message 1, 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

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character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:**      **dm\_ref\_rt\_di\_update\_03.xml**

**Precondition**      Make sure the *dm\_ref\_rt\_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 regulation role type with regulation role type id = 2, start date = 2008-02-01:

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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 regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *"French Description"*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 3:

- Message 1: Update the stable regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 4:

- Message 1: Update the stable regulation role type with regulation role type id = 2, start date = 2008-02-01:

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

#### Transaction 5:

- Message 1: Update the stable regulation role type with regulation role type id = 2, start date = 2008-02-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.
  - description 4: language id = *XX*, description = *Description for nonexistent language XX*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:



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

#### Transaction 9:

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

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

- Message 1, on language.id : VR-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

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character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

## 2.2. Regulation group

### 2.2.1. Test case init\_ref\_rg\_setup: Insertion of Regulation group reference data

**Message:** Init\_ref\_regulation\_group\_setup.xml

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

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

Transaction 1:

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

#### Transaction 2:

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

measure type combination = *0*.

#### Transaction 3:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*.

#### Transaction 4:

- 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 of regulation role type with id 1.*
  - description 2: language id = *FR*, description = *French Description of regulation role type with id 1.*
  - description 3: language id = *NL*, description = *Dutch Description of regulation role type with id 1.*

#### **Expected**

The message is composed of transactions replying to the original

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**output:** transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

### 2.2.2. Test case dm\_ref\_rg\_insert: Insertion of a regulation group

**Message:** dm\_ref\_rg\_insert\_01.xml

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

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

#### Transaction 1:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### Transaction 2:

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = *=*, constant = *FUN*.

#### Transaction 3:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.

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- description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### Transaction 4:

- Message 1: Insert an unstable regulation group with regulation group id = *F1*, start date = *2008/01\*01*, end date = *01-01-2009*:
  - description 1: language id = *E*, description = *English description of the Regulation Group*.
  - description 2: language id = *fr*, description = *French description of the Regulation Group*.
  - description 3: language id = *N1*, description = *Dutch description of the Regulation Group*.

#### Transaction 5:

- Message 1: Insert an unstable regulation group with regulation group id = *SUN*, start date = *2009-01-01*, end date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

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ERROR: Invalid format.

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

Reply to transaction 5:

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

**Message:** dm\_ref\_rg\_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\_regulation\_group\_setup.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Insert a stable regulation group with regulation group id = *FUN*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

Transaction 2:

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = *=*, constant = *FUN*.

Transaction 3:

- Message 1: Insert a stable regulation group with regulation group id = *FUN*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.

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- description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = *F1*, start date = *2008/01\*01*:
  - description 1: language id = *E*, description = *English description of the Regulation Group*.
  - description 2: language id = *fr*, description = *French description of the Regulation Group*.
  - description 3: language id = *N1*, description = *Dutch description of the Regulation Group*.

#### Transaction 5:

- Message 1: Insert a stable regulation group with regulation group id = *SUN*, start date = *2009-01-01*, end date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

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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.

**Message:** dm\_ref\_rg\_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\_regulation\_group\_setup.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of FUN*.
  - description 2: language id = *FR*, description = *French description of FUN*.
  - description 3: language id = *NL*, description = *Dutch description of FUN*.

Transaction 2:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of FUN*.
  - description 2: language id = *FR*, description = *French description of FUN*.
  - description 3: language id = *NL*, description = *Dutch description of FUN*.

Transaction 3:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of FUN*.
  - description 2: language id = *FR*, description = *French description of FUN*





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regulation group id = *FUN*, start date = 2008-01-01:

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

#### Transaction 7:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of FUN*.
  - description 2: language id = *FR*, description = *French description of FUN*.
  - description 3: language id = *NL*, description = *Dutch description of FUN*.

#### Transaction 8:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description kg. of FUN*.
  - description 2: language id = *FR*, description = *French description kg of FUN*.
  - description 3: language id = *NL*, description = *Dutch description of kg; FUN*.

#### Transaction 9:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English kg: description of FUN*.
  - description 2: language id = *FR*, description = *French kg, description of FUN*.
  - description 3: language id = *NL*, description = *Dutch description of FUN*.

#### Transaction 10:

- Message 1: Insert an unstable regulation group with regulation group id = *FUN*, start date = 2008-01-01:
  - description 1: language id = *EN*, description =

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*English description of FUN.*

- description 2: language id = *NL*, description = *Dutch description of FUN.*

**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

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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-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 10:

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

**Message:**            **dm\_ref\_rg\_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\_regulation\_group\_setup.xml* message should be successfully processed by the system.

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

Transaction 1:

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

Transaction 2:

- Message 1: Insert a stable regulation group with regulation group id = *SUN*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of SUN*.
  - description 2: language id = *FR*, description =



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- description 1: language id = *EN*, description = *English description of SUN.*
- description 2: language id = *FR*, description = *French description of SUN.*
- description 3: language id = *XX*, description = *Description of SUN in a non existent language.*
- description 4: language id = *NL*, description = *Dutch description of SUN.*

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

- Message 1: Insert a stable regulation group with regulation group id = *SUN*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description kg. of SUN.*
  - description 2: language id = *FR*, description = *French description kg of SUN.*
  - description 3: language id = *NL*, description = *Dutch description of kg; SUN.*

#### Transaction 9:

- Message 1: Insert a stable regulation group with regulation group id = *SUN*, start date = *2008-01-01*:

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

#### Transaction 10:

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

#### Transaction 11:

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

#### **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.

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

Reply to transaction 11:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.



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### 2.2.3. Test case dm\_ref\_rg\_update: Update of a regulation group

**Message:** dm\_ref\_rg\_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\_regulation\_group\_setup.xml* message should be successfully processed by the system.

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

#### Transaction 1:

- Message 1: Insert an unstable regulation group with regulation group id = *PUB*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of the Regulation Group PUB*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group PUB*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group PUB*.

#### Transaction 2:

- Message 1: Insert an unstable regulation group with regulation group id = *BUB*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BUB*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group BUB*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BUB*.

#### Transaction 3:

- Message 1: Insert a stable regulation group with regulation group id = *STA*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of the Regulation Group STA*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*

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STA.

- description 3: language id = *NL*, description = *Dutch description of the Regulation Group STA.*

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

**Message:**

**dm\_ref\_rg\_update\_setup\_02.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_regulation\_group\_setup.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable regulation group with regulation group id = *BAB*, start date = *2008-01-01*, end date = *2020-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BAB.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group BAB.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BAB.*

Transaction 2:

- Message 1: Insert a stable legal regulation with regulation id = *R0514283*, published date = *2000-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 3:

- Message 1: Insert a stable base regulation with regulation id = *R0514283*, regulation role type = *1*, start date = *2008-01-01*, end date = *2020-01-01*, community code = *1*, regulation group id = *BAB*, approved flag = *1*.

**Expected output:**

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

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Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

**Message:** **dm\_ref\_rg\_update\_01.xml**

**Precondition:** Make sure the *dm\_ref\_rg\_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 regulation group with regulation group id = *PUB*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group PUB updated.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group PUB updated.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group PUB updated.*

Transaction 2:

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = *=*, constant = *PUB*.

Transaction 3:

- Message 1: Update the unstable regulation group with regulation group id = *XXX*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Nonexistent Regulation Group XXX.*
  - description 2: language id = *FR*, description = *French description of the Nonexistent Regulation Group XXX.*
  - description 3: language id = *NL*, description = *Dutch description of the Nonexistent Regulation Group XXX.*

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#### Transaction 4:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2009-01-01*, end date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group PUB updated.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group PUB updated.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group PUB updated.*

#### Transaction 5:

- Message 1: Update the unstable regulation group with regulation group id = *STA*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group STA updated from stable to unstable.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group STA updated from stable to unstable.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group STA updated from stable to unstable.*

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

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

**Message:** dm\_ref\_rg\_update\_02.xml

**Precondition:** Make sure the dm\_ref\_rg\_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 regulation group with regulation group id = *PUB*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group PUB updated.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group PUB updated.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group PUB updated.*

**Transaction 2:**

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = *=*, constant = *PUB*.

**Transaction 3:**

- Message 1: Update the stable regulation group with regulation group id = *XXX*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Nonexistent Regulation Group XXX.*
  - description 2: language id = *FR*, description = *French description of the Nonexistent Regulation Group XXX.*
  - description 3: language id = *NL*, description = *Dutch description of the Nonexistent Regulation Group XXX.*

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#### Transaction 4:

- Message 1: Update the stable regulation group with regulation group id = *BUB*, start date = *2009-01-01*, end date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BUB updated.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group BUB updated.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BUB updated.*

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### **Message:**

**dm\_ref\_rg\_update\_03.xml**

#### **Precondition:**

Make sure the dm\_ref\_rg\_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 regulation group with regulation group id = *STA*, start date = *2008-01-01*, end date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group STA updated.*

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- description 2: language id = *FR*, description = *French description of the Regulation Group STA updated.*
- description 3: language id = *NL*, description = *Dutch description of the Regulation Group STA updated.*

Transaction 2:

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = =, constant = *STA*.

Transaction 3:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2009-01-01*, end date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group STA updated.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group STA updated.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group STA updated.*

**Expected output:**

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

Reply to transaction 1:

- Message 1, on regulation.group.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:**

**dm\_ref\_rg\_update\_04.xml**

**Precondition:**

Make sure the database is empty first and that the *dm\_ref\_rg\_update\_setup\_01.xml* message has been successfully processed.

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

**Transaction 1:**

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*.
  - description 3: language id = *NL*, description = *Dutch description of PUB*.

**Transaction 2:**

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*.
  - description 3: language id = *NL*, description = *Dutch description of PUB*.

**Transaction 3:**

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = 2008-01-01:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*



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*description of PUB.*

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

#### Transaction 4:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *FR*, description = *Second French description of PUB.*
  - description 4: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 5:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *XX*, description = *Description of PUB in a non existent language.*
  - description 4: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 6:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English/ description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 7:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description =

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*English description of PUB.*

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

#### Transaction 8:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description kg. of PUB.*
  - description 2: language id = *FR*, description = *French description of kg PUB.*
  - description 3: language id = *NL*, description = *Dutch description of kg; PUB.*

#### Transaction 9:

- Message 1: Update the unstable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of kg: PUB.*
  - description 2: language id = *FR*, description = *French kg, description of PUB.*
  - description 3: language id = *NL*, description = *Dutch description of PUB.*

#### **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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language.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** dm\_ref\_rg\_update\_05.xml

**Precondition:** Make sure the database is empty first and that the dm\_ref\_rg\_update\_setup\_01.xml message has been successfully

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processed.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*.
  - description 3: language id = *NL*, description = *Dutch description of PUB*.

Transaction 2:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*.
  - description 3: language id = *NL*, description = *Dutch description of PUB*.

Transaction 3:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB*.
  - description 2: language id = *FR*, description = *French description of PUB*

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*PUBFrench description of PUBFrench description of PUB.*

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

#### Transaction 4:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *FR*, description = *Second French description of PUB.*
  - description 4: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 5:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *XX*, description = *Description of PUB in a non existent language.*
  - description 4: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 6:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English/ description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 7:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:

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

#### Transaction 8:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description kg. of PUB.*
  - description 2: language id = *FR*, description = *French description of kg PUB.*
  - description 3: language id = *NL*, description = *Dutch description of kg; PUB.*

#### Transaction 9:

- Message 1: Update the stable regulation group with regulation group id = *PUB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of kg: PUB.*
  - description 2: language id = *FR*, description = *French kg, description of PUB.*
  - description 3: language id = *NL*, description = *Dutch description of PUB.*

#### Transaction 10:

- Message 1: Update the stable regulation group with regulation group id = *PUB*:
  - description 1: language id = *EN*, description = *English description of PUB.*
  - description 2: language id = *FR*, description = *French description of PUB.*
  - description 3: language id = *NL*, description = *Dutch description of PUB.*

#### **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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Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- 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.

Reply to transaction 10:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

**Message:** dm\_ref\_rg\_update\_06.xml

**Precondition:** Make sure the database is empty first and that the *dm\_ref\_rg\_update\_setup\_01.xml* and *dm\_ref\_rg\_update\_setup\_02.xml* messages have been successfully processed.

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

Transaction 1:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of STA*.
  - description 2: language id = *FR*, description = *French description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

Transaction 2:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of STA*.
  - description 2: language id = *FR*, description = *French description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

Transaction 3:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:





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

#### Transaction 6:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English/ description of STA*.
  - description 2: language id = *FR*, description = *French description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

#### Transaction 7:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of STA*.
  - description 2: language id = *FR*, description = *French description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

#### Transaction 8:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description kg. of STA*.
  - description 2: language id = *FR*, description = *French description of kg STA*.
  - description 3: language id = *NL*, description = *Dutch description of kg; STA*.

#### Transaction 9:

- Message 1: Update the stable regulation group with regulation group id = *STA*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of kg: STA*.
  - description 2: language id = *FR*, description = *French kg, description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

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#### Transaction 10:

- Message 1: Update the stable regulation group with regulation group id = *STA*:
  - description 1: language id = *EN*, description = *English description of STA*.
  - description 2: language id = *FR*, description = *French description of STA*.
  - description 3: language id = *NL*, description = *Dutch description of STA*.

#### Transaction 11:

- Message 1: Update the stable regulation group with regulation group id = *BAB*, start date = *2000-01-01*, end date = *2010-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BAB*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group BAB*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BAB*.

#### **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

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must exist.

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

Reply to transaction 6:

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

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.

Reply to transaction 11:

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

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changes the base regulation or the regulation group validity periods might undergo.

#### 2.2.4. Test case dm\_ref\_rg\_delete: Deletion of a regulation group

**Message:** dm\_ref\_rg\_delete\_setup\_01.xml

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

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

##### Transaction 1:

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

##### Transaction 2:

- Message 1: Insert an unstable regulation group with regulation group id = *BIB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BIB*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group BIB*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BIB*.

##### Transaction 3:

- Message 1: Insert a stable regulation group with regulation group id = *BOB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BOB*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group BOB*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BOB*.

##### Transaction 4:

- Message 1: Insert a stable regulation group with regulation group id = *BUB*, start date = *2008-01-01*:

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

#### Transaction 5:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, community code = *4*, regulation group id = *BUB*, approved flag = *1*.

#### Transaction 6:

- Message 1: Insert a stable regulation group with regulation group id = *BAB*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group BAB.*
  - description 2: language id = *FR*, description = *French description of the Regulation Group BAB.*
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group BAB.*

#### Transaction 7:

- Message 1: Insert a stable measure type with measure type id = *666*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

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

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

#### **Expected**

The message is composed of transactions replying to the original

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**output:**

transactions:

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

**Message:**

**dm\_ref\_rg\_delete\_01.xml**

**Precondition:**

Make sure the message *dm\_ref\_rg\_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 regulation group with regulation group id = *BIB*.

Transaction 2:

- Message 1: Delete the regulation group with regulation group id = *BOB*.

Transaction 3:

- Message 1: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = =, constant = *BIB*.
- Message 2: Request the regulation group with query space field = *REGULATION GROUP.REGULATION GROUP REF.Regulation group id*, operator = =, constant = *BOB*.

Transaction 4:

- Message 1: Delete the regulation group with regulation group id = *BIB*.

Transaction 5:

- Message 1: Delete the regulation group with regulation group id = *BOB*.

Transaction 6:

- Message 1: Delete the regulation group with regulation

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group id = *BUB*.

Transaction 7:

- Message 1: Delete the regulation group with regulation group id = *BAB*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on regulation.group.ref : VR-RG-4: The regulation group cannot be deleted if it is linked to at least one regulation group link.

Reply to transaction 7:

- Message 1, on regulation.group.ref : VR-RG-5: The regulation group cannot be deleted if it is used in a measure type-regulation group link.

## 2.3. Export Refund Nomenclature

### 2.3.1. Test case `init_ref_export_refund_nomenclature_setup`: Insertion of Export Refund Nomenclature reference data

**Message:** `init_ref_export_refund_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 =



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*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 additional code type with additional code type id = *A*, start date = 2000-01-01:
  - description 1: language id = *EN*, description = *English Description of additional code type A.*
  - description 2: language id = *FR*, description = *French Description of additional code type A.*
  - description 3: language id = *NL*, description = *Dutch Description of additional code type A.*

application code = 0.
- Message 2: Insert an unstable additional code type with additional code type id = *C*, start date = 2000-01-01:
  - description 1: language id = *EN*, description = *English Description of additional code type C.*
  - description 2: language id = *FR*, description = *French Description of additional code type C.*
  - description 3: language id = *NL*, description = *Dutch Description of additional code type C.*

application code = 0.
- Message 3: Insert a stable additional code type with additional code type id = *I*, start date = 2000-01-01:
  - description 1: language id = *EN*, description = *English Description of additional code type I.*
  - description 2: language id = *FR*, description = *French Description of additional code type I.*
  - description 3: language id = *NL*, description = *Dutch Description of additional code type I.*

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application code = 3.

- Message 4: Insert a stable additional code type with additional code type id = B, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of additional code type B.*
  - description 2: language id = FR, description = *French Description of additional code type B.*
  - description 3: language id = NL, description = *Dutch Description of additional code type B.*

application code = 1.

#### Transaction 3:

- Message 1: Insert an unstable footnote type with footnote type id = ACI, 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 = 3.

- Message 2: Insert a stable footnote type with footnote type id = ACO, 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 = 3.

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

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- Message 4: Insert a stable footnote type with footnote type id = *ERN*, 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 = *1*.

- Message 5: Insert a stable footnote type with footnote type id = *LSF*, 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 = *1*.

#### Transaction 4:

- Message 1: Insert an unstable footnote with footnote type id = *ACI*, footnote id = *01500*, 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 2: Insert a stable footnote with footnote type id = *ACO*, footnote id = *02000*, 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*.

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- Message 3: Insert a stable footnote with footnote type id = *LSF*, footnote id = *19700*, start date = *2007-01-01*, end date = *2012-01-01*:
  - 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 4: Insert a stable footnote with footnote type id = *ERN*, footnote id = *19800*, 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 5:

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

statistical indicator = *0*.

- Message 2: Insert a stable goods nomenclature with

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goods nomenclature id = 0101000000, productline suffix = 80, start date = 2008-01-02, goods nomenclature sid = 2:

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

- description 1: language id = EN, description = *English Description of 0101000000*.
- description 2: language id = FR, description = *French Description of 0101000000*.
- description 3: language id = NL, description = *Dutch Description of 0101000000*.

- indent 1: indent sid = 3, start date = 2008-01-02, indent number = 1.

goods nomenclature id = 0100000000,  
productline suffix = 80.

statistical indicator = 0.

- Message 3: Insert an unstable goods nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, start date = 2008-01-01, goods nomenclature sid = 3:

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

- description 1: language id = EN, description = *English Description of 0200000000*.
- description 2: language id = FR, description = *French Description of 0200000000*.
- description 3: language id = NL, description = *Dutch Description of 0200000000*.

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

statistical indicator = 0.

- Message 4: Insert an unstable goods nomenclature with goods nomenclature id = 0201000000, productline suffix

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= 80, start date = 2007-01-01, goods nomenclature sid = 4:

- description period 1: start date = 2007-01-01:
  - description 1: language id = EN, description = *English Description of 0201000000*.
  - description 2: language id = FR, description = *French Description of 0201000000*.
  - description 3: language id = NL, description = *Dutch Description of 0201000000*.
- indent 1: indent sid = 4, start date = 2007-01-01, indent number = 1.

statistical indicator = 0.

#### Transaction 6:

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

#### Transaction 7:

- Message 1: Insert a stable measure type series with measure type series id = AA, start date = 2000-01-01:
  - description 1: language id = EN, description = *English Description of M. Type AA*.
  - description 2: language id = FR, description = *French Description of M. Type AA*.
  - description 3: language id = NL, description = *Dutch Description of M. Type AA*.

measure type combination = 0.

#### Transaction 8:

- Message 1: Insert a stable regulation group with

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regulation group id = *GGA*, start date = *2000-01-01*:

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

#### Transaction 9:

- Message 1: Insert a stable measure type with measure type id = *001000*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GGA*, start date = *2000-01-01*.
- associated additional code type 1: additional code type id = *A*, start date = *2000-01-01*.

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

#### Transaction 10:

- 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 11:

- 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 role regulation 1*.
  - description 2: language id = *FR*, description = *French Description of role regulation 1*.
  - description 3: language id = *NL*, description = *Dutch Description of role regulation 1*.

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Transaction 12:

- Message 1: Insert a stable legal regulation with regulation id = R0801020, published date = 2000-01-01, official journal number = 1, official journal page = 1.

Transaction 13:

- Message 2: Insert a stable base regulation with regulation id = R0801010, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

Transaction 14:

- Message 2: Insert a stable base regulation with regulation id = R0801020, regulation role type = 1, start date = 2008-01-01, community code = 1, regulation group id = GGA, approved flag = 1.

**Expected output:**

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

Reply to transaction 1: 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.

**2.3.2. Test case dm\_ref\_ern\_insert: Insertion of an Export Refund Nomenclature**

**Message:** dm\_ref\_ern\_insert\_01.xml

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



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*init\_ref\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, 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:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, 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*.

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

#### Transaction 4:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = A100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008/31/01, export refund nomenclature sid = A, end date = 2009/01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN1, description = *English Description*.
    - description 2: language id = FR2, description = *French Description*.
    - description 3: language id = NL3, description = *Dutch Description*.
  - indent 1: indent sid = 4, start date = 2008-01-01, indent number = 1.

#### Transaction 5:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 3, 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*.
  - indent 1: indent sid = 5, start date = 2008-01-01, indent number = 1.

#### Transaction 6:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code

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type id = 1, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- indent 1: indent sid = 6, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-05-01, export refund nomenclature sid = 5, end date = 2009-05-01:
  - description period 1: start date = 2008-05-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 7, start date = 2008-05-01, indent number = 1.

#### Transaction 8:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100009898, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6:
  - 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: indent sid = 8, start date = 2008-01-01,  
indent number = 1.

#### Transaction 9:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 7:
  - 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 = 9, start date = 2008-12-31,  
indent number = 1.

#### Transaction 10:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 8, end date = 2009-01-01:
  - 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: indent sid = 10, start date = 2008-01-

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01, indent number = 1.

#### Transaction 11:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 9, 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*.
  - 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 = 11, start date = 2008-01-01, indent number = 1.

#### Transaction 12:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, 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*.

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- associated footnote 1: footnote type id = *ACG*, footnote id = *00999*, start date = *2008-01-01*, end date = *2008-01-01*.
- indent 1: indent sid = *12*, indent number = *1*.

#### Transaction 13:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, 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*.
  - associated footnote 1: footnote type id = *ERN*, footnote id = *19800*, start date = *2008-01-01*, end date = *2008-01-01*.
  - indent 1: indent sid = *13*, indent number = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-1: The combination of goods nomenclature, ERN extension, product line suffix and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

#### Reply to transaction 4:

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

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- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on export.refund.nomenclature.sid : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-3: The additional code type (defined in the ERN extension) must have the application code = 'ERN additional code type'.

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on goods.nomenclature.id : VR-ERN-5: The referenced goods nomenclature must exist and be a CN product code (a code up to 8 digits having 80 as suffix).

Reply to transaction 9:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 10:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.

Reply to transaction 11:

- Message 1, on start.date : VR-ERN-27: No two associated description periods for the same ERN may have the same start date.

Reply to transaction 12:

- Message 1, on start.date : VR-ERN-8: A nomenclature

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indent having the same start date as the ERN is mandatory.

- Message 1, on footnote.ref : VR-ERN-32: The referenced footnote must exist.

Reply to transaction 13:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on footnote.type.id : VR-ERN-36: The referenced footnote must have a footnote type for which the application type is 'ERN nomenclature'.

**Message:** dm\_ref\_ern\_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\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, 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:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature*



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*sid*, operator = =, constant = 1.

#### Transaction 3:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 3, start date = 2008-01-01, indent number = 1.

#### Transaction 4:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature item id = A1000, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008/31/01, export refund nomenclature sid = A, end date = 2009/01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN1, description = *English Description*.
    - description 2: language id = FR2, description = *French Description*.
    - description 3: language id = NL3, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

statistical indicator = 3.

#### Transaction 5:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 3, end date = 2007-

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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 = 5, start date = 2008-01-01, indent number = 1.

#### Transaction 6:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = 1, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 6, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 010, productline suffix = 80, start date = 2008-05-01, export refund nomenclature sid = 5, end date = 2009-05-01:
  - description period 1: start date = 2008-05-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.

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

- indent 1: indent sid = 7, start date = 2008-05-01,  
indent number = 1.

#### Transaction 8:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0101010000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6:
  - 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 = 8, start date = 2008-01-01,  
indent number = 1.

#### Transaction 9:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 7:
  - 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 = 9, start date = 2008-12-31,  
indent number = 1.

#### Transaction 10:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline

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suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 8:

- description period 1: start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.
- associated footnote 1: footnote type id = ACI, footnote id = 01500, start date = 2008-01-01, associated footnote sid = 1.
- indent 1: indent sid = 10, start date = 2008-01-01, indent number = 1.

#### Transaction 11:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 9, 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*.
  - 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*.

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- indent 1: indent sid = 11, start date = 2008-01-01, indent number = 1.

#### Transaction 12:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 10, 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*.
  - 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 = 12, start date = 2008-01-01, indent number = 1.

#### Transaction 13:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund 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*.

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- associated footnote 1: footnote type id = *ACG*, footnote id = *99900*, start date = *2008-01-01*, associated footnote sid = *2*, end date = *2009-01-01*.
- indent 1: indent sid = *13*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 14:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund 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*.
  - associated footnote 1: footnote type id = *ERN*, footnote id = *19800*, start date = *2008-01-01*, associated footnote sid = *3*, end date = *2009-01-01*.
  - indent 1: indent sid = *14*, start date = *2008-01-01*, indent number = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-1: The combination of goods nomenclature, ERN extension, product line suffix and start date (defined in the validity period) must be unique in the universe of the stable and unstable data.

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#### Reply to transaction 4:

- Message 1, on export.refund.nomenclature : GEN-VALIDATION-ERROR: XML Schema validation error.
- Message 1, on logical.key : GEN-VALIDATION-ERROR: XML Schema validation error.
- Message 1, on start.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on export.refund.nomenclature.sid : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on end.date : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

#### Reply to transaction 5:

- Message 1, on start.date : VR-PERIOD-1: Period end date must be greater than or equal to the start date. The absence of the end date indicates infinity into the future.
- Message 1, on description.period : VR-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

#### Reply to transaction 6:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-3: The additional code type (defined in the ERN extension) must have the application code = 'ERN additional code type'.

#### Reply to transaction 7:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-4: The validity period of the ERN must not overlap any other ERN with the same goods code + ERN code.

#### Reply to transaction 8:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-5: The referenced goods nomenclature must exist and be a CN product code (a code up to 8 digits having 80 as suffix).

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Reply to transaction 9:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 10:

- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.

Reply to transaction 11:

- Message 1, on description.period[2] : VR-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.

Reply to transaction 12:

- Message 1, on start.date : VR-ERN-27: No two associated description periods for the same ERN may have the same start date.

Reply to transaction 13:

- Message 1, on footnote.ref : VR-ERN-32: The referenced footnote must exist.

Reply to transaction 14:

- Message 1, on footnote.type.id : VR-ERN-36: The referenced footnote must have a footnote type for which the application type is 'ERN nomenclature'.

**Message:** dm\_ref\_ern\_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\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, 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 = 2009-01-01:
  - description period 1: start date = 2008-07-03:
    - 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 = *1*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 2:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *010*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, 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: indent sid = *2*, start date = *2008-01-01*,  
indent number = *1*.
  - indent 2: indent sid = *3*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 3:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *010*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *3*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *FR*,  
description = *French Description*.
    - description 2: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = *3*, start date = *2008-01-01*,  
indent number = *1*.

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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.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.

Reply to transaction 2:

- Message 1, on start.date : VR-ERN-9: No two associated indentations may have the same start date.

Reply to transaction 3:

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

**Message:**

**dm\_ref\_ern\_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\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, 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 = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline

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suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 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: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 3:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2007-01-01:
  - description period 1: start date = 2007-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2007-01-01, indent number = 1.

#### Transaction 4:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01:
  - 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*.

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

#### Transaction 5:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01:
  - 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: indent sid = 1, start date = 2008-01-01, indent number = 1.
  - indent 2: indent sid = 2, start date = 2008-01-01, indent number = 1.

#### Transaction 6:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, 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 = 1, indent number = 1.

#### Transaction 7:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, 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: indent sid = 1, start date = 2008-01-01, indent number = 1.
- indent 2: indent sid = 2, start date = 2007-01-01, indent number = 1.

#### Transaction 8:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01:
  - 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: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 9:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = FR, description = *French Description*.
    - description 2: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01,

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indent number = 1.

#### Transaction 10:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, 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*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 11:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 011, 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*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000, start date = 2006-01-01.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 12:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund

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code = 011, 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*.
- associated footnote 1: footnote type id = ACO, footnote id = 02000, start date = 2008-01-01, end date = 2010-01-01.
- associated footnote 2: footnote type id = ACO, footnote id = 02000, start date = 2009-01-01.
- indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on additional.code.type.ref : VR-ERN-14: The additional code type must be stable when the ERN is stable.

**Reply to transaction 2:**

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on description.period : VR-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

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- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-7: The validity period of the associated goods nomenclature must span the validity period of the ERN.

Reply to transaction 4:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.

Reply to transaction 5:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on start.date : VR-ERN-9: No two associated indentations may have the same start date.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.

Reply to transaction 6:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.

Reply to transaction 7:

- Message 1, on indent[2] : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.

Reply to transaction 8:

- Message 1, on description.period.list : VR-ERN-25: A



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description period having the same start date as ERN is mandatory.

- Message 1, on description.period : VR-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.

#### Reply to transaction 9:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on description.list : VR-DI-12: A description version for each of the supported stable languages must exist.

#### Reply to transaction 10:

- Message 1, on logical.key : GUI-3.9.3: When a footnote is provided, an association start date is mandatory.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- 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 11:

- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on associated.footnote : VR-ERN-34: The validity period of the footnote association must be enclosed by the validity period of the footnote.

#### Reply to transaction 12:

- Message 1, on start.date : VR-ERN-35: 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-ERN-35: 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.

- Message 1, on additional.code.type.ref : VR-ERN-15:  
The goods nomenclature must be stable when the ERN is stable.

### 2.3.3. Test case dm\_ref\_ern\_di\_insert: Insert of a Export Refund Nomenclature description

**Message:** dm\_ref\_ern\_di\_insert\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *-French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 2:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2:
  - 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: indent sid = 2, start date = 2008-01-01,  
indent number = 1.

#### Transaction 3:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *FR*,  
description = *Second French Description*.
    - description 4: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = 4, start date = 2008-01-01,  
indent number = 1.

#### Transaction 4:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 5:
  - 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 = *XX*,  
description = *Description in XX language*.
- description 4: language id = *NL*,  
description = *Dutch Description*.

- indent 1: indent sid = 5, start date = 2008-01-01,  
indent number = 1.

#### Transaction 5:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6:
  - 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 = 6, start date = 2008-01-01,  
indent number = 1.

#### Transaction 6:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 7:
  - 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: indent sid = 7, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 8:
  - description period 1: 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.*
  - indent 1: indent sid = 8, start date = 2008-01-01, indent number = 1.

#### Transaction 8:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 9:
  - description period 1: 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.*
  - indent 1: indent sid = 9, start date = 2008-01-01, indent number = 1.

#### **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-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 '|'.
- 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-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank

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

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

**Message:**            **dm\_ref\_ern\_di\_insert\_02.xml**

**Precondition:**    Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *-French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2:
  - 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: indent sid = 2, start date = 2008-01-01,  
indent number = 1.

#### Transaction 3:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *FR*,  
description = *Second French Description*.
    - description 4: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = 4, start date = 2008-01-01,  
indent number = 1.

#### Transaction 4:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 5:
  - 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 = *XX*,  
description = *Description in XX*



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*language.*

- description 4: language id = *NL*,  
description = *Dutch Description.*
- indent 1: indent sid = 5, start date = 2008-01-01,  
indent number = 1.

#### Transaction 5:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6:
  - 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 = 6, start date = 2008-01-01,  
indent number = 1.

#### Transaction 6:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 7:
  - 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 = 7, start date = 2008-01-01,  
indent number = 1.

#### Transaction 7:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-

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01, export refund nomenclature sid = 8:

- description period 1: 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.*
- indent 1: indent sid = 8, start date = 2008-01-01, indent number = 1.

#### Transaction 8:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 9:
  - description period 1: 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.*
  - indent 1: indent sid = 9, start date = 2008-01-01, indent number = 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-7: At a given moment, there is at most one description in a given language.

#### Reply to transaction 4:

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- 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 '|'.
- 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-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

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#### 2.3.4. Test case dm\_ref\_ern\_update: Update of an Export Refund Nomenclature

**Message:** dm\_ref\_ern\_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\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

##### Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, 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,

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description = *Dutch Description*.

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

#### Transaction 3:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 014, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 3, end date = 2010-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 3, start date = 2008-01-01, indent number = 1.

#### Transaction 4:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 015, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4, end date = 2010-01-01:
  - 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 = 4, start date = 2008-01-01, indent number = 1.

#### Transaction 5:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 016, productline suffix = 80, start date = 2010-01-01, export refund

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nomenclature sid = 17:

- 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: indent sid = 17, start date = 2010-01-01, indent number = 1.

#### Transaction 6:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 016, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 5, 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: indent sid = 5, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 017, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL,

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description = *Dutch Description*.

- associated footnote 1: footnote type id = *ACI*, footnote id = *01500*, start date = *2008-01-01*, associated footnote sid = *6*, end date = *2009-01-01*.
- indent 1: indent sid = *6*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 8:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = *0101000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *020*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *7*, end date = *2012-01-01*:
  - 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 = *7*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 9:

- Message 1: Insert an unstable measure with measure type id = *001000*, geographical area id = *DE*, start date = *2008-01-01*, goods nomenclature id = *0101000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *020*, start date = *2008-01-01*, measure sid = *10*, end date = *2010-01-01*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801020*, regulation role type = *1*.

#### Transaction 10:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *021*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *8*, end date = *2012-01-01*:
  - 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: indent sid = 8, start date = 2008-01-01,  
indent number = 1.

#### Transaction 11:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = *DE*, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = *A*, additional code id = 021, start date = 2008-01-01, start date = 2008-01-01, measure sid = 12, end date = 2010-01-01, regulation id = *R0801010*, regulation role type = 1, regulation id = *R0801020*, regulation role type = 1.

#### Transaction 12:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = *A*, export refund code = 027, productline suffix = 80, start date = 2010-01-01, export refund nomenclature sid = 12:
  - 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*.
  - associated footnote 1: footnote type id = *ACI*,  
footnote id = 01500, start date = 2010-01-01,  
associated footnote sid = 12, end date = 2011-01-01.
  - indent 1: indent sid = 12, start date = 2010-01-01, indent number = 1.

#### **Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.



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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.

**Message:** **dm\_ref\_ern\_update\_01.xml**

**Precondition:** Make sure the *dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 1.

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### Transaction 3:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 099, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 99, end date = 2009-01-01:
  - 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: indent sid = 99, start date = 2008-01-01, indent number = 1.

### Transaction 4:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2007-01-01:
  - 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: indent sid = 1, start date = 2008-01-01, indent number = 1.

### Transaction 5:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code

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type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, 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: indent sid = 2, start date = 2008-01-01, indent number = 1.

#### Transaction 6:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 014, productline suffix = 80, start date = 2007-01-01, export refund nomenclature sid = 3, end date = 2011-01-01:
  - 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: indent sid = 3, indent number = 1.

#### Transaction 7:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2011-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*

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*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 = *2009-12-01*,  
indent number = *1*.

#### Transaction 8:

- Message 1: Update the unstable export refund  
nomenclature with goods nomenclature id =  
*0100000000*, productline suffix = *80*, additional code  
type id = *A*, export refund code = *012*, productline suffix  
= *80*, start date = *2008-01-01*, export refund  
nomenclature sid = *1*, end date = *2011-01-01*:
  - 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: indent sid = *1*, start date = *2008-01-01*,  
indent number = *1*.
  - indent 2: indent sid = *20*, start date = *2008-01-01*,  
indent number = *2*.

#### Transaction 9:

- Message 1: Update the unstable export refund  
nomenclature with goods nomenclature id =  
*0100000000*, productline suffix = *80*, additional code  
type id = *A*, export refund code = *012*, productline suffix  
= *80*, start date = *2008-01-01*, export refund  
nomenclature sid = *1*, end date = *2011-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*  
*updated.*

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- 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 = *1*.
- indent 2: indent sid = *20*, start date = *2015-01-01*, indent number = *2*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 7:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 8:

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- Message 1, on start.date : VR-ERN-9: No two associated indentations may have the same start date.

Reply to transaction 9:

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

**Message:** **dm\_ref\_ern\_update\_02.xml**

**Precondition:** Make sure the *dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 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 = 1.

Transaction 2:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 015, productline suffix = 80, start date = 2008-01-01, export refund

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nomenclature sid = 4, end date = 2007-01-01:

- 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: indent sid = 4, start date = 2008-01-01, indent number = 1.

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 014, productline suffix = 80, start date = 2007-01-01, export refund nomenclature sid = 3, end date = 2011-01-01:
  - 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: indent sid = 3, start date = 2008-01-01, indent number = 1.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 015, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 4, end date = 2011-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN,

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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 = *4*, start date = *2009-12-01*,  
indent number = *1*.

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *015*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *4*, end date = *2011-01-01*:
  - 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: indent sid = *4*, start date = *2008-01-01*,  
indent number = *1*.
  - indent 2: indent sid = *21*, start date = *2008-01-01*,  
indent number = *2*.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *015*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *4*, end date = *2011-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*



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*updated.*

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

- indent 1: indent sid = *4*, start date = *2008-01-01*,  
indent number = *1*.
- indent 2: indent sid = *21*, start date = *2015-01-01*, indent number = *2*.

#### Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0201000000*, productline suffix = *80*, additional code type id = *C*, export refund code = *017*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *6*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - associated footnote 1: footnote type id = *ACI*,  
footnote id = *01500*, start date = *2008-01-01*,  
associated footnote sid = *6*, end date = *2009-01-01*.
  - indent 1: indent sid = *6*, start date = *2008-01-01*,  
indent number = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

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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-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 4:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on export.refund.nomenclature.ref : VR-ERN-7: The validity period of the associated goods nomenclature must span the validity period of the ERN.

Reply to transaction 5:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 6:

- Message 1, on start.date : VR-ERN-9: No two associated indentations may have the same start date.

Reply to transaction 7:

- Message 1, on indent[2] : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.
- Message 1, on additional.code.type.ref : VR-ERN-14: The additional code type must be stable when the ERN is stable.

**Message:**      **dm\_ref\_ern\_update\_03.xml**

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**Precondition:** Make sure the *dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2009-01-01:
  - 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: indent sid = 2, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 2.

Transaction 3:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2007-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description updated.*

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- description 2: language id = *FR*,  
description = *French Description*  
*updated.*
- description 3: language id = *NL*,  
description = *Dutch Description*  
*updated.*
- indent 1: indent sid = 2, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *016*, productline suffix = *80*, start date = *2007-01-01*, export refund nomenclature sid = *5*, end date = *2011-01-01*:
  - description period 1: start date = *2007-01-01*:
    - 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: indent sid = *5*, start date = *2007-01-01*,  
indent number = *1*.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *013*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2011-01-01*:
  - 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*

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*updated.*

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

- indent 1: indent sid = 2, start date = *2008-12-31*,  
indent number = *1*.

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *013*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2011-01-01*:
  - 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: indent sid = 2, start date = *2008-01-01*,  
indent number = *1*.
  - indent 2: indent sid = 22, start date = *2008-01-01*,  
indent number = *2*.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *013*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2011-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.

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- description 3: language id = *NL*,  
description = *Dutch Description*.
- indent 1: indent sid = 2, start date = *2008-01-01*,  
indent number = *1*.
- indent 2: indent sid = 22, start date = *2015-01-01*, indent number = *1*.

#### Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *3*, additional code type id = *A*, export refund code = *021*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *8*, 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: indent sid = *8*, start date = *2008-01-01*,  
indent number = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

- Message 1, on export.refund.nomenclature.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-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

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Reply to transaction 4:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-4: The validity period of the ERN must not overlap any other ERN with the same goods code + ERN code.
- Message 1, on export.refund.nomenclature.ref : VR-ERN-7: The validity period of the associated goods nomenclature must span the validity period of the ERN.

Reply to transaction 5:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.

Reply to transaction 6:

- Message 1, on start.date : VR-ERN-9: No two associated indentations may have the same start date.

Reply to transaction 7:

- Message 1, on indent[2] : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 8:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on export.refund.nomenclature.ref : VR-ERN-18: The validity period of the ERN must always span the validity period of the referencing stable measure.

**Message:** **dm\_ref\_ern\_update\_04.xml**

**Precondition:** Make sure the *dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 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*.
- associated footnote 1: footnote type id = *NEF*,  
footnote id = *127*, start date = *2008-01-01*, end  
date = *2009-01-01*.
- indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 2:

- Message 1: Update the unstable export refund  
nomenclature with goods nomenclature id =  
*0100000000*, productline suffix = *80*, additional code  
type id = *C*, export refund code = *012*, productline suffix  
= *80*, start date = *2008-01-01*, export refund  
nomenclature sid = *1*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 3:

- Message 1: Update the unstable export refund  
nomenclature with goods nomenclature id =  
*0101000000*, productline suffix = *80*, additional code  
type id = *A*, export refund code = *127*, productline suffix  
= *80*, start date = *2008-01-01*, export refund  
nomenclature sid = *1*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 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: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 4:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-07-03:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000, start date = 2008-01-01, associated footnote sid = 10, end date = 2009-01-01.
  - associated footnote 2: footnote type id = ACO,

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footnote id = 02000, start date = 2008-01-01,  
associated footnote sid = 11, end date = 2009-01-01.

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

#### Transaction 6:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 017, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000, start date = 2008-01-01, associated footnote sid = 6, end date = 2009-01-01.
  - indent 1: indent sid = 6, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 017, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL,

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description = *Dutch Description*.

- associated footnote 1: footnote type id = *ACI*, footnote id = *01500*, start date = *2008-06-01*, associated footnote sid = *6*, end date = *2009-01-01*.
- indent 1: indent sid = *6*, start date = *2008-01-01*, indent number = *1*.

**Expected  
output:**

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

Reply to transaction 1:

- Message 1, on footnote.ref : VR-ERN-32: The referenced footnote must exist.

Reply to transaction 2:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.

Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.

Reply to transaction 4:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.

Reply to transaction 5:

- Message 1, on start.date : VR-ERN-35: 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-ERN-35: 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 6:

- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.

Reply to transaction 7:

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- Message 1, on start.date : VR-ERN-40: The start date cannot be updated.

**Message:**            **dm\_ref\_ern\_update\_05.xml**

**Precondition:**    Make sure the *dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0201000000, productline suffix = 80, additional code type id = C, export refund code = 017, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 6, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - associated footnote 1: footnote type id = ACI, footnote id = 01500, start date = 2008-01-01, associated footnote sid = 6, end date = 2009-01-01.
  - indent 1: indent sid = 6, start date = 2008-01-01, indent number = 1.

**Transaction 2:**

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, export refund nomenclature sid = 1:
  - 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: indent sid = *1*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 3:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *C*, export refund code = *012*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0101000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *127*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 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*,

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indent number = 1.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 016, productline suffix = 80, start date = 2008-07-01, export refund nomenclature sid = 17:
  - 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: indent sid = 17, start date = 2008-07-01, indent number = 1.

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-07-03:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund

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nomenclature sid = 1, end date = 2009-01-01:

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

#### Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 012, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 9:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = C, export refund code = 027, productline suffix = 80, start date = 2010-01-01, export refund nomenclature sid = 12:
  - description period 1: start date = 2010-01-01:
    - 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*.
- associated footnote 1: footnote type id = *ACO*,  
footnote id = *02000*, start date = *2010-01-01*,  
associated footnote sid = *12*, end date = *2011-01-01*.
- indent 1: indent sid = *12*, start date = *2010-01-01*, indent number = *1*.

#### Transaction 10:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *012*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*,  
description = *English Description*.
    - description 2: language id = *FR*,  
description = *French Description*.
    - description 3: language id = *NL*,  
description = *Dutch Description*.
  - associated footnote 1: footnote type id = *ACI*,  
footnote id = *01500*, start date = *2008-01-01*, end date = *2009-01-01*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 11:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0200000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *027*, productline suffix = *80*, start date = *2010-01-01*, export refund nomenclature sid = *12*:
  - description period 1: start date = *2010-01-01*:



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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*.
- associated footnote 1: footnote type id = *ACI*,  
footnote id = *01500*, start date = *2009-06-01*,  
associated footnote sid = *12*, end date = *2010-06-01*.
- indent 1: indent sid = *12*, start date = *2010-01-01*, indent number = *1*.

#### Transaction 12:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0200000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *027*, productline suffix = *80*, start date = *2010-01-01*, export refund nomenclature sid = *12*:
  - 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*.
  - associated footnote 1: footnote type id = *LSF*,  
footnote id = *19700*, start date = *2010-01-01*,  
associated footnote sid = *12*.
  - indent 1: indent sid = *12*, start date = *2010-01-01*, indent number = *1*.

#### Transaction 13:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0200000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *027*, productline suffix = *80*, start date = *2010-01-01*, export refund

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nomenclature sid = 12:

- 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*.
- associated footnote 1: footnote type id = LSF, footnote id = 19700, start date = 2010-01-01, associated footnote sid = 12, end date = 2011-01-01.
- associated footnote 2: footnote type id = LSF, footnote id = 19700, start date = 2010-06-01, associated footnote sid = 13, end date = 2010-12-01.
- indent 1: indent sid = 12, start date = 2010-01-01, indent number = 1.

**Expected output:**

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

**Reply to transaction 1:**

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.
- Message 1, on additional.code.type.ref : VR-ERN-14: The additional code type must be stable when the ERN is stable.

**Reply to transaction 2:**

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on description.period : VR-ERN-26: The

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start date of the description period must be enclosed by the validity period of the ERN.

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.
- Message 1, on additional.code.type.ref : VR-ERN-14: The additional code type must be stable when the ERN is stable.

Reply to transaction 4:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.
- Message 1, on export.refund.nomenclature.ref : VR-ERN-7: The validity period of the associated goods nomenclature must span the validity period of the ERN.

Reply to transaction 5:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-4: The validity period of the ERN must not overlap any other ERN with the same goods code + ERN code.

Reply to transaction 6:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.

Reply to transaction 7:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 8:

- Message 1, on logical.key : GUI-3.9.3: When a footnote

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is provided, an association start date is mandatory.

- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- 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 9:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.
- Message 1, on additional.code.type.ref : VR-ERN-14: The additional code type must be stable when the ERN is stable.

#### Reply to transaction 10:

- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.

#### Reply to transaction 11:

- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.

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- Message 1, on start.date : VR-ERN-40: The start date cannot be updated.

Reply to transaction 12:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on associated.footnote : VR-ERN-34: The validity period of the footnote association must be enclosed by the validity period of the footnote.
- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.

Reply to transaction 13:

- Message 1, on start.date : VR-ERN-35: 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-ERN-35: 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 additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.

**Message:** dm\_ref\_ern\_update\_06.xml

**Precondition:** Make sure the dm\_ref\_ern\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:

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- 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.*
- associated footnote 1: footnote type id = *ACI*,  
footnote id = *01500*, start date = *2008-01-01*, end date = *2009-01-01*.
- indent 1: indent sid = *2*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 2:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *013*, productline suffix = *80*, export refund nomenclature sid = *2*:
  - 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: indent sid = *2*, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 3:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *1*, export refund code = *013*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2009-01-01*:
  - description period 1: start date = *2008-01-01*:

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

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0101000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *127*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2009-01-01*:
  - 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: indent sid = 2, start date = *2008-01-01*,  
indent number = *1*.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *016*, productline suffix = *80*, start date = *2010-01-01*, export refund nomenclature sid = *17*:
  - description period 1: start date = *2010-01-01*:
    - 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: indent sid = *17*, start date = *2010-01-01*, indent number = *1*.

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *016*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *5*:
  - 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 = *5*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *013*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *2*, end date = *2009-01-01*:
  - description period 1: start date = *2008-07-03*:
    - 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*.



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

#### Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2009-01-01:
  - 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: indent sid = 2, indent number = 1.

#### Transaction 9:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2009-01-01:
  - 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.*
  - associated footnote 1: footnote type id = LSF, footnote id = 19700.

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

#### Transaction 10:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 027, productline suffix = 80, start date = 2010-01-01, export refund nomenclature sid = 12:
  - 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*.
  - associated footnote 1: footnote type id = LSF, footnote id = 19700, start date = 2010-01-01, associated footnote sid = 12, end date = 2011-01-01.
  - indent 1: indent sid = 12, start date = 2010-01-01, indent number = 1.

#### Transaction 11:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 027, productline suffix = 80, start date = 2010-01-01, export refund nomenclature sid = 12:
  - 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*.
  - associated footnote 1: footnote type id = ACO, footnote id = 02000, start date = 2010-06-01, associated footnote sid = 12, end date = 2011-01-01.

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- indent 1: indent sid = 12, start date = 2010-01-01, indent number = 1.

#### Transaction 12:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0200000000, productline suffix = 80, additional code type id = A, export refund code = 027, productline suffix = 80, start date = 2010-01-01, export refund nomenclature sid = 12:
  - 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*.
  - associated footnote 1: footnote type id = LSF, footnote id = 19700, start date = 2010-01-01, associated footnote sid = 12, end date = 2011-01-01.
  - associated footnote 2: footnote type id = LSF, footnote id = 19700, start date = 2010-06-01, associated footnote sid = 13, end date = 2011-06-01.
  - indent 1: indent sid = 12, start date = 2010-01-01, indent number = 1.

#### Transaction 13:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 013, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, end date = 2009-01-01:
  - 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*.

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- description 3: language id = *NL*,  
description = *Dutch Description updated*.
- associated footnote 1: footnote type id = *LSF*,  
footnote id = *19700*, start date = *2006-01-01*.
- indent 1: indent sid = *2*, start date = *2008-01-01*,  
indent number = *1*.

**Expected  
output:**

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

Reply to transaction 1:

- Message 1, on footnote.ref : VR-ERN-16: The associated footnotes must be stable when the ERN is stable.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.
- Message 1, on description.period : VR-ERN-26: The start date of the description period must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 3:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.

Reply to transaction 4:

- Message 1, on export.refund.nomenclature.ref : VR-ERN-2: The goods nomenclature, the ERN extension and the product line suffix cannot be updated.

Reply to transaction 5:

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

Reply to transaction 6:

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- Message 1, on export.refund.nomenclature.ref : VR-ERN-4: The validity period of the ERN must not overlap any other ERN with the same goods code + ERN code.

Reply to transaction 7:

- Message 1, on description.period.list : VR-ERN-25: A description period having the same start date as ERN is mandatory.

Reply to transaction 8:

- Message 1, on start.date : VR-ERN-8: A nomenclature indent having the same start date as the ERN is mandatory.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.
- Message 1, on indent : VR-ERN-10: The start date of the nomenclature indent must be enclosed by the validity period of the ERN.

Reply to transaction 9:

- Message 1, on logical.key : GUI-3.9.3: When a footnote is provided, an association start date is mandatory.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 10:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on logical.key : VR-ERN-39: The footnote

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code cannot be updated.

Reply to transaction 11:

- Message 1, on additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.

Reply to transaction 12:

- Message 1, on start.date : VR-ERN-35: 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-ERN-35: 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 additional.code.type.ref : VR-ERN-15: The goods nomenclature must be stable when the ERN is stable.
- Message 1, on logical.key : VR-ERN-39: The footnote code cannot be updated.

Reply to transaction 13:

- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on start.date : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on logical.key : VR-ERN-33: The validity period of the footnote association must be enclosed by the validity period of the ERN.
- Message 1, on associated.footnote : VR-ERN-34: The validity period of the footnote association must be enclosed by the validity period of the footnote.

### 2.3.5. Test case dm\_ref\_ern\_delete: Deletion of an Export Refund Nomenclature

**Message:** dm\_ref\_ern\_delete\_setup\_01.xml

**Precondition:** Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_setup\_01.xml* and *init\_ref\_setup\_02.xml* messages

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should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 017, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1, end date = 2009-01-01:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 018, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 2, 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: indent sid = 2, start date = 2008-01-01, indent number = 1.

Transaction 3:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 019, productline suffix = 80, start date = 2008-01-

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01, export refund nomenclature sid = 3:

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

Transaction 4:

- Message 1: Insert a stable measure with measure type id = 001000, geographical area id = DE, start date = 2008-01-01, goods nomenclature id = 0100000000, productline suffix = 80, start date = 2008-01-01, additional code type id = A, additional code id = 019, start date = 2008-01-01, start date = 2008-01-01, measure sid = 12, end date = 2010-01-01, regulation id = R0801010, regulation role type = 1, regulation id = R0801020, regulation role type = 1.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

**Message:**

**dm\_ref\_ern\_delete\_01.xml**

**Precondition:**

Make sure the message *dm\_ref\_ern\_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 export refund nomenclature with export refund nomenclature sid = 1.

Transaction 2:

- Message 1: Delete the export refund nomenclature with export refund nomenclature sid = 2.



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#### Transaction 3:

- Message 1: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 1.
- Message 2: Request the export refund nomenclature with query space field = *EXPORT REFUND NOMENCLATURE.EXPORT REFUND NOMENCLATURE REF.Export refund nomenclature sid*, operator = =, constant = 2.

#### Transaction 4:

- Message 1: Delete the export refund nomenclature with export refund nomenclature sid = 1.

#### Transaction 5:

- Message 1: Delete the export refund nomenclature with export refund nomenclature sid = 2.

#### Transaction 6:

- Message 1: Delete the export refund nomenclature with export refund nomenclature sid = 3.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

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

#### Reply to transaction 4:

- Message 1, on export.refund.nomenclature.sid : VR\_VI\_3: Data to be deleted must exist.

#### Reply to transaction 5:

- Message 1, on export.refund.nomenclature.sid : VR\_VI\_3: Data to be deleted must exist.

#### Reply to transaction 6:

- Message 1, on export.refund.nomenclature.sid : VR-ERN-22: An ERN cannot be deleted if the ERN is used in an ERN measure.

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### 2.3.6. Test case dm\_ref\_ern\_di\_update: Update of a Export Refund Nomenclature description

**Message:** dm\_ref\_ern\_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\_export\_refund\_nomenclature\_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 export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 2:

- Message 1: Insert a stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01,

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indent number = 1.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

**Message:**

**dm\_ref\_ern\_di\_update\_01.xml**

**Precondition**  
:

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm\_ref\_ern\_di\_update\_setup\_01.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

Transaction 2:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.

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

#### Transaction 3:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *FR - Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 4:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - 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 = *FR*, description = *Second French Description*.
- description 4: language id = *NL*, description = *Dutch Description*.
- indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 5:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *XX*, description = *Description in XX language*.
    - description 4: language id = *NL*, description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 6:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent

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number = 1.

#### Transaction 7:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description:.*
    - description 3: language id = NL, description = *Dutch Description.*
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 8:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: 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.*
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 9:

- Message 1: Update the unstable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English kg; Description.*

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- description 2: language id = *FR*, description = *French kg, Description*.
- description 3: language id = *NL*, description = *Dutch Description*.
- indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *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 export.refund.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 ' '.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ' '.

Reply to transaction 7:

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

Reply to transaction 8:

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

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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.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space "|".
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

**Message:**      **dm\_ref\_ern\_di\_update\_02.xml**

**Precondition**      Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *dm\_ref\_ern\_di\_update\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = -



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*French Description.*

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

#### Transaction 2:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description.*
    - description 2: language id = *FR*, description = *"French Description.*
    - description 3: language id = *NL*, description = *Dutch Description.*
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 3:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description.*
    - description 2: language id = *FR*, description = *FR - Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz*

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*zTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*

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

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *FR*, description = *Second French Description*.
    - description 4: language id = *NL*, description = *Dutch Description*.
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *XX*, description = *Description in XX language*.
    - description 4: language id = *NL*, description = *Dutch Description*.

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

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 1, start date = 2008-01-01, indent number = 1.

#### Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, goods nomenclature sid = 1, additional code type id = A, export refund code = 011, productline suffix = 80, start date = 2008-01-01, export refund nomenclature sid = 1:
  - description period 1: start date = 2008-01-01:
    - description 1: language id = EN, description =

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*English kg. Description.*

- description 2: language id = *FR*, description = *French kg Description.*
- description 3: language id = *NL*, description = *Dutch kg; Description.*
- indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *1*.

#### Transaction 9:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = *0100000000*, productline suffix = *80*, goods nomenclature sid = *1*, additional code type id = *A*, export refund code = *011*, productline suffix = *80*, start date = *2008-01-01*, export refund nomenclature sid = *1*:
  - description period 1: 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.*
  - indent 1: indent sid = *1*, start date = *2008-01-01*, indent number = *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 export.refund.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:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

**Message:**      **dm\_ref\_ern\_di\_update\_03.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, *dm\_ref\_ern\_di\_update\_setup\_01.xml* message should be successfully processed by the system.

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

**Transaction 1:**

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

**Transaction 2:**

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

**Transaction 3:**

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01,

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export refund nomenclature sid = 2:

- description period 1: start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *FR - Test with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = NL, description = *Dutch Description.*
- indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

#### Transaction 4:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description.*
    - description 2: language id = FR, description = *French Description.*
    - description 3: language id = FR, description = *Second French Description.*
    - description 4: language id = NL, description = *Dutch Description.*
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

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#### Transaction 5:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = XX, description = *Description in XX language*.
    - description 4: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

#### Transaction 6:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

#### Transaction 7:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - 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*.
- indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

Transaction 8:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = *EN*, description = *English kg. Description*.
    - description 2: language id = *FR*, description = *French kg Description*.
    - description 3: language id = *NL*, description = *Dutch kg; Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

Transaction 9:

- Message 1: Update the stable export refund nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, goods nomenclature sid = 2, additional code type id = A, export refund code = 020, productline suffix = 80, start date = 2008-02-01, export refund nomenclature sid = 2:
  - description period 1: start date = 2008-02-01:
    - description 1: language id = *EN*, description = *English kg: Description*.
    - description 2: language id = *FR*, description = *French kg, Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.
  - indent 1: indent sid = 2, start date = 2008-02-01, indent number = 1.

**Expected output:**

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

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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. Monetary unit

### 2.4.1. Test case init\_ref\_mou\_setup: Insertion of Monetary unit reference data

**Message:** init\_ref\_monetary\_unit.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 with country id = *SV*,

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start date = 2000-01-01, end date = 2060-01-01, area code = 0:

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

#### Transaction 3:

- Message 1: Insert a stable country with country id = ST, start date = 2000-01-01, end date = 2060-01-01, area code = 0:
  - description period 1: start date = 2000-01-01:
    - description 1: language id = EN, description = *English Description of SF*.
    - description 2: language id = FR, description = *French Description of SF*.
    - description 3: language id = NL, description = *Dutch Description of SF*.

#### Transaction 4:

- Message 1: Insert a stable country with country id = SG, start date = 2000-01-01, end date = 2060-01-01, area code = 0:
  - description period 1: start date = 2000-01-01:
    - description 1: language id = EN, description = *English Description of SF*.
    - description 2: language id = FR, description = *French Description of SF*.
    - description 3: language id = NL, description = *Dutch Description of SF*.

#### Transaction 5:

- Message 1: Insert a stable legal regulation with regulation id = R0801010, published date = 2008-01-01, official journal number = 123, official journal page = 123.

#### Transaction 6:

- Message 1: Insert a stable legal regulation with regulation id = R0801011, published date = 2008-01-01,

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official journal number = 123, official journal page = 123.

#### Transaction 7:

- Message 1: Insert a stable regulation group with regulation group id = *GGA*, start date = *2000-01-01*, end date = *2049-01-01*:
  - description 1: language id = *EN*, description = *English description of the Regulation Group*.
  - description 2: language id = *FR*, description = *French description of the Regulation Group*.
  - description 3: language id = *NL*, description = *Dutch description of the Regulation Group*.

#### Transaction 8:

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

#### Transaction 9:

- Message 1: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2000-01-01*, end date = *2049-01-01*, community code = *1*, regulation group id = *GGA*, approved flag = *1*.

#### Transaction 10:

- Message 1: Insert a stable measure type series with measure type series id = *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*.

measure type combination = *0*.

#### Transaction 11:

- Message 1: Insert a stable additional code type with additional code type id = *A*, start date = *2000-01-01*, end

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date = 2049-01-01:

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

application code = 0.

#### Transaction 12:

- Message 1: Insert a stable measure type with measure type id = 223, start date = 2000-01-01, end date = 2050-01-01:
  - 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 = 1:

- associated regulation group 1: regulation group id = *GGA*, start date = 2000-01-01, end date = 2049-01-01.
- associated additional code type 1: additional code type id = *A*, start date = 2000-01-01, end date = 2049-01-01.

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

#### Transaction 13:

- Message 1: Insert a stable measure type with measure type id = 222, start date = 2000-01-01, end date = 2050-01-01:
  - 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.*

measure type series id = 1:

- associated regulation group 1: regulation group id = GGA, start date = 2000-01-01, end date = 2049-01-01.
- associated additional code type 1: additional code type id = A, start date = 2000-01-01, end date = 2049-01-01.

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

Transaction 14:

- Message 1: Insert a stable goods nomenclature with goods nomenclature id = 0100000000, productline suffix = 80, start date = 1999-12-29:
  - description period 1: start date = 1999-12-29:
    - 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 = 1999-12-29, indent number = 1.

statistical indicator = 1.

- Message 2: Insert a stable goods nomenclature with goods nomenclature id = 0101000000, productline suffix = 80, start date = 1999-12-30:
  - description period 1: start date = 1999-12-30:
    - 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 = 1999-12-30,

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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 = 1999-12-31:
  - description period 1: start date = 1999-12-31:
    - description 1: language id = EN, description = *English Description*.
    - description 2: language id = FR, description = *French Description*.
    - description 3: language id = NL, description = *Dutch Description*.
  - indent 1: indent sid = 3, start date = 1999-12-31, indent number = 1.

goods nomenclature id = 0101000000,  
productline suffix = 80.

statistical indicator = 1.

- Message 4: Insert a stable goods nomenclature with goods nomenclature id = 0101010100, 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 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 = 2000-01-01, indent number = 1.



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goods nomenclature id = 0101010000,  
productline suffix = 80.

statistical indicator = 0.

#### Transaction 15:

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

duty amount applicability code = 0, measurement unit applicability code = 2, monetary unit applicability code = 1.

#### Transaction 16:

- Message 1: Insert a stable measurement unit with measurement unit code = KGR, 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*.

qualifier required = 0.

#### 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.

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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 0: Status ok.

#### 2.4.2. Test case **dm\_ref\_mou\_insert**: Insertion of a monetary unit

**Message:** **dm\_ref\_mou\_insert\_01.xml**

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_ref\_monetary\_unit.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 monetary unit with monetary unit code = *LOL*:
  - 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:

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- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *LOL*.

#### Transaction 3:

- Message 1: Insert an unstable monetary unit with monetary unit code = *LOL*:
  - 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 monetary unit with monetary unit code = *LOL*, start date = *2008/48*, end date = *14-\**:
  - description 1: language id = *en*, description = *English Description*.
  - description 2: language id = *F@*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 5:

- Message 1: Insert an unstable monetary unit with monetary unit code = *FUN*, start date = *2009-01-01*, end 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 : OK.

#### Reply to transaction 2:

- Message 1 : OK.

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Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

**Message:** **dm\_ref\_mou\_insert\_02.xml**

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_ref\_monetary\_unit.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 monetary unit with monetary unit code = *LOL*, start date = *2008-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 2:

- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT REF.Monetary unit code*, operator = *=*, constant = *LOL*.

Transaction 3:

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

Transaction 4:

- Message 1: Insert a stable monetary unit with monetary unit code = *LOL*, start date = *2008/48*, end date = *14-\**:
  - description 1: language id = *Ã\$zÃ©*, description = *English Description*.
  - description 2: language id = *2@*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, start date = *2009-01-01*, end 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 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on monetary.unit.ref : VR-MOU-1:  
The monetary unit must be unique in the

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universe of the stable and unstable data.

Reply to transaction 4:

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

Reply to transaction 5:

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

**Message:** dm\_ref\_mou\_insert\_03.xml

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_ref\_monetary\_unit.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 monetary unit with monetary unit code = *FUN*:
  - 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 monetary unit with monetary unit code = *FUN*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *"French" Description*.



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*French Description.*

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

Transaction 6:

- Message 1: Insert an unstable monetary unit with monetary unit code = *FUN*:
  - 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 monetary unit with monetary unit code = *FUN*:
  - 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 monetary unit with monetary unit code = *FUN*:
  - 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 monetary unit with monetary unit code = *FUN*:
  - description 1: language id = *EN*, description = *English kg: Description.*
  - description 2: language id = *FR*, description =



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*French kg, Description.*

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

#### Transaction 10:

- Message 1: Insert an unstable monetary unit with monetary unit code = *FUN*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *NL*, description = *Dutch Description*.

#### **Expected output:**

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

#### Reply to transaction 1:

- 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 ':|'.

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Reply to transaction 8:

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

Reply to transaction 9:

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

Reply to transaction 10:

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

**Message:** dm\_ref\_mou\_insert\_04.xml

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_ref\_monetary\_unit.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 monetary unit with monetary unit code = *FUN*, 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 =



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

#### Transaction 5:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, 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 = *XX*, description = *Description for a non existing language*.
  - description 4: language id = *NL*, description = *Dutch Description*.

#### Transaction 6:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, 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 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, 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 monetary unit with monetary unit code = *FUN*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English kg. Description*.
  - description 2: language id = *FR*, description = *French kg Description*.

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

#### Transaction 9:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, start date = *2000-01-01*:
  - 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 monetary unit with monetary unit code = *FUN*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *NL*, description = *Dutch Description.*

#### Transaction 11:

- Message 1: Insert a stable monetary unit with monetary unit code = *FUN*, start date = *2000-01-01*:

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

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

Reply to transaction 11:

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

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### 2.4.3. Test case dm\_ref\_mou\_update: Update of a monetary unit

**Message:** dm\_ref\_mou\_update\_setup\_01.xml

**Precondition:** Make sure the database is empty.

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

#### Transaction 1:

- Message 1: Insert a stable monetary unit with monetary unit code = *DUN*, 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 2:

- Message 1: Insert a stable monetary exchange with monetary unit code = *DUN*, start date = *2008-01-01*, monetary exchange sid = *1*, end date = *2010-01-01*.

#### Transaction 3:

- Message 1: Insert a stable monetary unit with monetary unit code = *RAK*, 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 monetary exchange with monetary unit code = *RAK*, start date = *2008-01-01*, monetary exchange sid = *2*, end date = *2010-01-01*.

#### Transaction 5:

- Message 1: Insert an unstable monetary unit with monetary unit code = *SUN*, start date = *2000-01-01*:
  - 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 6:

- Message 1: Insert a stable monetary unit with monetary unit code = *MEU*, 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 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *MES*, 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 measure with measure type id = 222, geographical area id = *SG*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-31*, measure sid = *1*, regulation id = *R0801010*, regulation role type = *1*:
  - measure component 1: duty expression id = *11*, monetary unit code = *MEU*, duty amount = *13*.

#### Transaction 9:

- Message 1: Insert a stable measure with measure type id = 223, geographical area id = *SG*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-31*, measure sid = *2*, regulation id = *R0801010*, regulation role type = *1*:
  - measure component 1: duty expression id = *11*, monetary unit code = *MES*.

#### **Expected output:**

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

Reply to transaction 1: Status ok.



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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\_ref\_mou\_update\_01.xml

**Precondition:** Make sure the dm\_ref\_mou\_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 monetary unit with monetary unit code = *DUN*, 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 2:

- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *DUN*.

Transaction 3:

- Message 1: Update the unstable monetary unit with monetary unit code = *XXX*, 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:

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- Message 1: Update the unstable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*, end date = *1999-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 5:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2009-01-01*, end date = *2009-12-31*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 6:

- Message 1: Update the unstable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

#### **Expected output:**

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

#### Reply to transaction 1:

- Message 1 : OK.

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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- 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 monetary.unit.ref : VR-MOU-3: The validity period of the monetary unit must span the validity period of all related stable Monetary Exchanges.

Reply to transaction 6:

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

**Message:** **dm\_ref\_mou\_update\_02.xml**

**Precondition:** Make sure the *dm\_ref\_mou\_update\_01.xml* message has been successfully processed.

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

Transaction 1:

- Message 1: Update the stable monetary unit with monetary unit code = *SUN*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *French Description updated.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

Transaction 2:

- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *SUN*.

Transaction 3:

- Message 1: Update the stable monetary unit with monetary unit code = *XXX*, 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 =

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*Dutch Description.*

Transaction 4:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*, end date = *1999-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 5:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2009-01-01*, end date = *2011-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 6:

- Message 1: Update the stable monetary unit with monetary unit code = *MEU*, start date = *2007-12-31*, end date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

**Expected output:**

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

Reply to transaction 1:

- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on monetary.unit.ref : VR-MOU-3: The validity period of the monetary unit must span the validity period of all related stable Monetary Exchanges.

Reply to transaction 6:

- Message 1, on monetary.unit.ref : VR-MOU-4: The validity period of the monetary unit must span the validity period of all related stable Measures.

**Message:** **dm\_ref\_mou\_update\_03.xml**

**Precondition:** Make sure the *dm\_ref\_mou\_update\_02.xml* message has been successfully processed.

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

Transaction 1:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 2:

- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *RAK*.

Transaction 3:

- Message 1: Update the stable monetary unit with monetary unit code = *XXX*, start date = *2000-01-01*:
  - 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 4:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*, end date = *1999-01-01*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 5:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 6:

- Message 1: Update the stable monetary unit with monetary unit code = *MES*, start date = *2000-01-01*, end 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 : OK.

Reply to transaction 2:

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- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on monetary.unit.ref : VR-MOU-3: The validity period of the monetary unit must span the validity period of all related stable Monetary Exchanges.

Reply to transaction 6:

- Message 1, on monetary.unit.ref : VR-MOU-4: The validity period of the monetary unit must span the validity period of all related stable Measures.

**Message:**

**dm\_ref\_mou\_update\_04.xml**

**Precondition:**

Make sure the *dm\_ref\_mou\_update\_03.xml* message has been successfully processed.

**Content:**

The message is composed of the following transactions:

**T Transaction 1:**

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 2:**

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 =





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*French Description.*

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

Transaction 6:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 7:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*:
  - 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: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English kg: Description.*
  - description 2: language id = *FR*, description =

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*French kg, Description.*

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

**Expected output:**

**Reply to transaction 1:**

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

**Reply to transaction 2:**

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

**Reply to transaction 3:**

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

**Reply to transaction 4:**

- 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.

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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.

Reply to transaction 9:

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

**Message:**            **dm\_ref\_mou\_update\_05.xml**

**Precondition:**    Make sure the *dm\_ref\_mou\_update\_04.xml* message has been successfully processed.

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

Transaction 1:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 2:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 3:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description =



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#### Transaction 6:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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 7:

- Message 1: Update the stable monetary unit with monetary unit code = *DUN*, 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: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*:
  - 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: Update the stable monetary unit with monetary unit code = *DUN*, start date = *2000-01-01*:
  - 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:**

#### Reply to transaction 1:

- Message 1, on description : VR-DI-3: Description text

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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.

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\_ref\_mou\_update\_06.xml**

**Precondition:**    Make sure the *dm\_ref\_mou\_update\_05.xml* message has been successfully processed.

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

**Transaction 1:**

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 2:**

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 3:**

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench*

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Description.*

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

#### Transaction 4:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 = *FR*, description = *Second French Description.*
  - description 4: language id = *NL*, description = *Dutch Description.*

#### Transaction 5:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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 = *XX*, description = *Description for a non existing language.*
  - description 4: language id = *NL*, description = *Dutch Description.*

#### Transaction 6:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*:
  - 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*.

#### Transaction 7:

- Message 1: Update the stable monetary unit with monetary unit code = *RAK*, 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: Update the stable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*:
  - 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: Update the stable monetary unit with monetary unit code = *RAK*, start date = *2000-01-01*:
  - 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:**

##### 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:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

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#### 2.4.4. Test case dm\_ref\_mou\_delete: Deletion of a monetary unit

**Message:** dm\_ref\_mou\_delete\_setup\_01.xml

**Precondition:** Make sure the database is empty.

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

##### Transaction 0:

- Message 1: Insert a stable measure condition code with condition code = 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 1:

- Message 1: Insert an unstable monetary unit with monetary unit code = UNS, 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 2:

- Message 1: Insert a stable monetary unit with monetary unit code = STA, 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 3:

- Message 1: Insert a stable monetary unit with monetary unit code = MUE, start date = 2000-01-01:
  - 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*.

#### Transaction 4:

- Message 1: Insert a stable monetary exchange with monetary unit code = *MUE*, start date = *2008-01-01*, monetary exchange sid = *1*, end date = *2009-01-01*.

#### Transaction 5:

- Message 1: Insert a stable monetary unit with monetary unit code = *COM*, 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 6:

- Message 1: Insert an unstable measure with measure type id = *222*, geographical area id = *ST*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *1*, regulation id = *R0801010*, regulation role type = *1*:
  - measure component 1: duty expression id = *11*, monetary unit code = *COM*, duty amount = *13*.

#### Transaction 7:

- Message 1: Insert a stable monetary unit with monetary unit code = *CON*, 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 an unstable measure with measure type id = *222*, geographical area id = *SV*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *2*, regulation id = *R0801010*, regulation role type = *1*:

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- measure condition 1: condition code = *I*, sequence number = *I*, monetary unit code = *COC*, action code = *900*.

#### Transaction 9:

- Message 1: Insert a stable monetary unit with monetary unit code = *COC*, 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 10:

- Message 1: Insert an unstable measure with measure type id = *222*, geographical area id = *SG*, goods nomenclature id = *0101010100*, productline suffix = *80*, start date = *2008-01-01*, measure sid = *3*, regulation id = *R0801010*, regulation role type = *1*:
  - measure condition 1: condition code = *I*, sequence number = *I*, action code = *900*:
    - measure component 1: duty expression id = *11*, monetary unit code = *COC*, duty amount = *12*.

#### **Expected output:**

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

Reply to transaction 0: Status ok.

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.

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**Message:**            **dm\_ref\_mou\_delete\_01.xml**

**Precondition:**    Make sure the message *dm\_ref\_mou\_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 monetary unit with monetary unit code = *UNS*.

Transaction 2:

- Message 1: Delete the monetary unit with monetary unit code = *STA*.

Transaction 3:

- Message 1: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *UNS*.
- Message 2: Request the monetary unit with query space field = *MONETARY UNIT.MONETARY UNIT*  
*REF.Monetary unit code*, operator = =, constant = *STA*.

Transaction 4:

- Message 1: Delete the monetary unit with monetary unit code = *UNS*.

Transaction 5:

- Message 1: Delete the monetary unit with monetary unit code = *STA*.

Transaction 6:

- Message 1: Delete the monetary unit with monetary unit code = *MUE*.

Transaction 7:

- Message 1: Delete the monetary unit with monetary unit code = *COM*.

Transaction 8:

- Message 1: Delete the monetary unit with monetary unit code = *CON*.

Transaction 9:

- Message 1: Delete the monetary unit with monetary unit code = *COC*.

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

Reply to transaction 1:

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- Message 1 : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on monetary.unit.ref : VR-MOU-9: A monetary unit cannot be deleted if it is used in a monetary exchange.

Reply to transaction 7:

- Message 1, on monetary.unit.ref : VR-MOU-6: The monetary unit cannot be deleted if it is used in a measure component.

Reply to transaction 8:

- Message 1, on monetary.unit.ref : VR-MOU-7: A monetary unit cannot be deleted if it is used in a measure condition.

Reply to transaction 9:

- Message 1, on monetary.unit.ref : VR-MOU-8: A monetary unit cannot be deleted if it is used in a measure condition component.

## 2.5. Certificate type

### 2.5.1. Test case `init_certificate_type_setup`: Insertion of Certificate Type reference data

**Message:** `init_certificate_type_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 =

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*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.

## 2.5.2. Test case dm\_ref\_cet\_insert: Insertion of a Certificate Type

**Message:** dm\_ref\_cet\_insert\_01.xml

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_certificate\_type\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

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

Transaction 2:

- Message 1: Request the certificate type with query space field = *CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code*, operator = *=*, constant = *Z*.

Transaction 3:

- Message 1: Insert an unstable certificate type with



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certificate type code = Z:

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

Transaction 4:

- Message 1: Insert an unstable certificate type with certificate type code = 12:
  - description 1: language id = *en*, description = *English Description*.
  - description 2: language id = *fra*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 5:

- Message 1: Insert an unstable certificate type with certificate type code = *Y*, start date = 2009-05-01, end date = 2008-04-01:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

Transaction 6:

- Message 1: Insert an unstable certificate type with certificate type code = *Y*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on certificate.type.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 5:

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

Reply to transaction 6:

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

**Message:** dm\_ref\_cet\_insert\_02.xml

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_certificate\_type\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Insert a stable certificate type with certificate type code = Z, 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 2:

- Message 1: Request the certificate type with query space

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field = *CERTIFICATE TYPE.CERTIFICATE TYPE*  
*REF.Certificate type code*, operator = =, constant = Z.

#### Transaction 3:

- Message 1: Insert a stable certificate type with certificate type code = Z, 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 4:

- Message 1: Insert a stable certificate type with certificate type code = 12, start date = 2009-05-01:
  - description 1: language id = en, description = *English Description.*
  - description 2: language id = fra, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

#### Transaction 5:

- Message 1: Insert a stable certificate type with certificate type code = Y, start date = 2009-05-01, end date = 2008-04-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

#### Transaction 6:

- Message 1: Insert a stable certificate type with certificate type code = Y, start date = 2009-05-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*

#### **Expected output:**

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

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Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on certificate.type.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 5:

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

Reply to transaction 6:

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

**Message:** dm\_ref\_cet\_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\_type\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

- Message 1: Insert a stable certificate type with certificate type code = Z:
  - 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.*

**Expected output:**

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

Reply to transaction 1:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

### 2.5.3. Test case dm\_ref\_cet\_di\_insert: Insert of a Certificate Type description

**Message:** dm\_ref\_cet\_di\_insert\_01.xml

**Precondition** : Make sure the *init\_certificate\_type\_setup\_01.xml* message has been successfully processed.

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

Transaction 1:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*
  - description 2: language id = FR, description = *French Description CET Z.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

Transaction 2:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*
  - description 2: language id = FR, description = *"French Description CET Z.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

Transaction 3:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description =

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*English Description CET Z.*

- description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
- description 3: language id = *NL*, description = *Dutch Description CET Z.*

Transaction 4:

- Message 1: Insert an unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description CET Z.*
  - description 2: language id = *FR*, description = *French description CET Z.*
  - description 3: language id = *FR*, description = *Second French CET Z.*
  - description 4: language id = *NL*, description = *Dutch Description for CET Z.*

Transaction 5:

- Message 1: Insert an unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description CET Z.*
  - description 2: language id = *FR*, description = *French description CET Z.*
  - description 3: language id = *NL*, description = *Dutch Description CET Z.*
  - description 4: language id = *XX*, description = *Description for nonexistent language.*

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#### Transaction 6:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*
  - description 2: language id = FR, description = *French description CET Z.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

#### Transaction 7:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*
  - description 2: language id = FR, description = *French description CET Z:.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

#### Transaction 8:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg. for CET Z.*
  - description 2: language id = FR, description = *French description kg for CET Z.*
  - description 3: language id = NL, description = *Dutch Description kg; for CET Z.*

#### Transaction 9:

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg: for CET Z.*
  - description 2: language id = FR, description = *French description kg, for CET Z.*
  - description 3: language id = NL, description = *Dutch Description for CET Z.*

#### **Expected output:**

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

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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 may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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



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not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

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

**Message:**        **dm\_ref\_cet\_di\_insert\_02.xml**

**Precondition**    Make sure the *dm\_ref\_cet\_di\_insert\_01.xml* message has been  
:  
successfully processed.

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

Transaction 1:

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

Transaction 2:

- Message 1: Insert a stable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*
  - description 2: language id = FR, description = *"French Description CET Z.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

Transaction 3:

- Message 1: Insert a stable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description CET Z.*

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- description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
- description 3: language id = *NL*, description = *Dutch Description CET Z.*

#### Transaction 4:

- Message 1: Insert a stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description CET Z.*
  - description 2: language id = *FR*, description = *French description CET Z.*
  - description 3: language id = *FR*, description = *Second French description for CET Z.*
  - description 4: language id = *NL*, description = *Dutch Description CET Z.*

#### Transaction 5:

- Message 1: Insert a stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description CET Z.*
  - description 2: language id = *FR*, description = *French description CET Z.*
  - description 3: language id = *XX*, description = *Description for nonexistent language.*
  - description 4: language id = *NL*, description = *Dutch Description.*

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

- Message 1: Insert a stable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg. CET Z.*
  - description 2: language id = FR, description = *French description kg CET Z.*
  - description 3: language id = NL, description = *Dutch Description kg; CET Z.*

#### Transaction 9:

- Message 1: Insert a stable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description kg: CET Z.*
  - description 2: language id = FR, description = *French description kg, CET Z.*
  - description 3: language id = NL, description = *Dutch Description CET Z.*

#### **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 ' '.
- 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

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

Reply to transaction 9:

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

#### 2.5.4. Test case **dm\_ref\_cet\_update**: Update of a Certificate Type

**Message:** **dm\_ref\_cet\_update\_setup\_01.xml**

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_certificate\_type\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

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

Transaction 2:

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

Transaction 3:

- Message 1: Insert an unstable certificate type with certificate type code = U:
  - 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.*

Transaction 4:

- Message 1: Insert an unstable certificate with certificate type code = *U*, certificate code = *CEU*, start date = *2008-01-01*:
  - description period 1: start date = *2008-01-01*:
    - description 1: language id = *EN*, description = *English Description.*
    - description 2: language id = *FR*, description = *French Description.*
    - description 3: language id = *NL*, description = *Dutch Description.*

Transaction 6:

- Message 1: Insert a stable certificate type with certificate type code = *O*, 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 certificate with certificate type code = *O*, certificate code = *CEO*, 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.*

**Expected output:**

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

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Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

**Message:** dm\_ref\_cet\_update\_01.xml

**Precondition:** Make sure the *dm\_ref\_cet\_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 type with certificate type code = Z, 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.*

Transaction 2:

- Message 1: Request the certificate type with query space field = *CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code*, operator = =, constant = Z.

Transaction 3:

- Message 1: Update the unstable certificate type with certificate type code = X:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

Transaction 4:

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

#### Transaction 6:

- Message 1: Update the unstable certificate type with certificate type code = Y:
  - 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.type.ref : OK.

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 6:

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

#### **Message:**

**dm\_ref\_cet\_update\_02.xml**



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**Precondition:** Make sure the *dm\_ref\_cet\_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 type with certificate type code = Z, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 2:

- Message 1: Request the certificate type with query space field = *CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code*, operator = =, constant = Z.

Transaction 3:

- Message 1: Update the stable certificate type with certificate type code = X, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description*.
  - description 2: language id = FR, description = *French Description*.
  - description 3: language id = NL, description = *Dutch Description*.

Transaction 4:

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

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

**Message:** dm\_ref\_cet\_update\_03.xml

**Precondition:** Make sure the dm\_ref\_cet\_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 type with certificate type code = Y, start date = 2008-01-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*
  - description 3: language id = NL, description = *Dutch Description updated.*

Transaction 2:

- Message 1: Request the certificate type with query space field = CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code, operator = =, constant = Y.

Transaction 3:

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

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#### Transaction 4:

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

#### Transaction 6:

- Message 1: Update the stable certificate type with certificate type code = *O*, start date = *2008-01-01*, end 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*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 6:

- Message 1, on certificate.type.ref : VR-CET-3: The validity period of the certificate type must span the validity period of all related stable certificates.

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**Message:**            **dm\_ref\_cet\_update\_04.xml**

**Precondition:**    Make sure the *dm\_ref\_cet\_update\_03.xml* message has been successfully processed.

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

**Transaction 1:**

- Message 1: Update the stable certificate type with certificate type code = Z:
  - description 1: language id = *EN*, description = *English Description updated for CET Z*.
  - description 2: language id = *FR*, description = *French Description updated for CET Z*.
  - description 3: language id = *NL*, description = *Dutch Description updated for CET Z*.

**Transaction 2:**

- Message 1: Update the stable certificate type with certificate type code = Y:
  - description 1: language id = *EN*, description = *English Description updated for CET Y*.
  - description 2: language id = *FR*, description = *French Description updated for CET Y*.
  - description 3: language id = *NL*, description = *Dutch Description updated for CET Y*.

**Transaction 3:**

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

**Transaction 4:**

- Message 1: Request the certificate type with query space field = *CERTIFICATE TYPE.Stability flag*, operator = =, constant = 0.

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

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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.

Reply to transaction 2:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1 : OK.

#### 2.5.5. Test case dm\_ref\_cet\_delete: Deletion of a Certificate Type

**Message:** dm\_ref\_cet\_delete\_setup\_01.xml

**Precondition:** First, make sure the database is empty. Then, load the testing reference data in the system. For this purpose, *init\_certificate\_type\_setup\_01.xml* message should be successfully processed by the system.

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

Transaction 1:

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

Transaction 2:

- Message 1: Insert a stable certificate type with certificate type code = W, 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 3:

- Message 1: Insert an unstable certificate type with certificate type code = *V*, 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 4:

- Message 1: Insert an unstable certificate with certificate type code = *V*, certificate code = *457*, 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.*

Transaction 5:

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

Transaction 6:

- Message 1: Insert a stable certificate with certificate type code = *R*, certificate code = *CER*, 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*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

**Message:**

**dm\_ref\_cet\_delete\_01.xml**

**Precondition:**

Make sure the message *dm\_ref\_cet\_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 certificate type with certificate type code = *X*.

Transaction 2:

- Message 1: Delete the certificate type with certificate type code = *W*.

Transaction 3:

- Message 1: Request the certificate type with query space field = *CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code*, operator = *=*, constant = *X*.
- Message 2: Request the certificate type with query space field = *CERTIFICATE TYPE.CERTIFICATE TYPE REF.Certificate type code*, operator = *=*, constant = *W*.

Transaction 4:

- Message 1: Delete the certificate type with certificate type code = *X*.

Transaction 5:

- Message 1: Delete the certificate type with certificate

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type code = W.

Transaction 6:

- Message 1: Delete the certificate type with certificate type code = V.

Transaction 7:

- Message 1: Delete the certificate type with certificate type code = R.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on certificate.type.ref : VR-CET-5: The certificate type cannot be deleted if it is associated with a certificate.

Reply to transaction 7:

- Message 1, on certificate.type.ref : VR-CET-5: The certificate type cannot be deleted if it is associated with a certificate.

**2.5.6. Test case dm\_ref\_cet\_di\_update: Update of a Certificate Type description**

**Message:** dm\_ref\_cet\_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\_type\_setup\_01.xml* message should be successfully processed by the system.



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

**Transaction 1:**

- Message 1: Insert an unstable certificate type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French Description.*
  - description 3: language id = NL, description = *Dutch Description.*

**Transaction 2:**

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

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

**Reply to transaction 1:** Status ok.

**Reply to transaction 2:** Status ok.

**Message:** dm\_ref\_cet\_di\_update\_01.xml

**Precondition** : Make sure the dm\_ref\_cet\_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 type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = *French Description updated.*

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

#### Transaction 2:

- Message 1: Update the unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *"French Description updated.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### Transaction 3:

- Message 1: Update the unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### Transaction 4:

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

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

#### Transaction 5:

- Message 1: Update the unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French description updated*.
  - description 3: language id = *NL*, description = *Dutch Description updated*.
  - description 4: language id = *XX*, description = *Description for nonexistent language*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

- Message 1: Update the unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg. updated*.

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

#### Transaction 9:

- Message 1: Update the unstable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg: updated.*
  - description 2: language id = *FR*, description = *French description kg, updated.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### **Expected output:**

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

#### Reply to transaction 1:

- Message 1, on 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 '|'.

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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 '|'.

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** **dm\_ref\_cet\_di\_update\_02.xml**

**Precondition** : Make sure the *dm\_ref\_cet\_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 type with certificate type code = Z, start date = 2008-02-01:
  - description 1: language id = EN, description = *English Description updated.*
  - description 2: language id = FR, description = - *French Description updated.*

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

#### Transaction 2:

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

#### Transaction 3:

- Message 1: Update the stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### Transaction 4:

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

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

#### Transaction 5:

- Message 1: Update the stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French description updated*.
  - description 3: language id = *XX*, description = *Description for nonexistent language*.
  - description 4: language id = *NL*, description = *Dutch Description updated*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

- Message 1: Update the stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg. updated*.

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

#### Transaction 9:

- Message 1: Update the stable certificate type with certificate type code = *Z*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg: updated.*
  - description 2: language id = *FR*, description = *French description kg, updated.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### **Expected output:**

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

#### Reply to transaction 1:

- Message 1, on 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 '|'.



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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 '|'.

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

**Message:** **dm\_ref\_cet\_di\_update\_03.xml**

**Precondition** : Make sure the *dm\_ref\_cet\_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 type with certificate type code = *W*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *- French Description updated*.

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

#### Transaction 2:

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

#### Transaction 3:

- Message 1: Update the stable certificate type with certificate type code = *W*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *Test with a multilingual description for FR which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a multilingual description which contains more than 500 characters:0123456789abcdefghijklmnopqrstuvwxyz.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### Transaction 4:

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

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

#### Transaction 5:

- Message 1: Update the stable certificate type with certificate type code = *W*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French description updated*.
  - description 3: language id = *NL*, description = *Dutch Description updated*.
  - description 4: language id = *XX*, description = *Description for nonexistent language*.

#### Transaction 6:

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

#### Transaction 7:

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

#### Transaction 8:

- Message 1: Update the stable certificate type with certificate type code = *W*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg. updated*.

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

#### Transaction 9:

- Message 1: Update the stable certificate type with certificate type code = *W*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description kg: updated.*
  - description 2: language id = *FR*, description = *French description kg, updated.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

#### **Expected output:**

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

#### Reply to transaction 1:

- Message 1, on 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 ' '.

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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 '|'.

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

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

## 2.6. Footnote type

### 2.6.1. Test case `init_ref_footnote_type_setup`: Insertion of Footnote type reference data

**Message:** `init_ref_footnote_type_setup.xml`

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

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

Transaction 1:

- Message 1: Insert a stable language with language id = *EN*, start date = *2000-01-01*:

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- 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.

## 2.6.2. Test case dm\_ref\_fot\_insert: Insertion of a footnote type

**Message:** dm\_ref\_fot\_insert\_01.xml

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

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

Transaction 1:

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

application code = *1*.

Transaction 2:

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

Transaction 3:

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

application code = *1*.

#### Transaction 4:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*, start date = *2009-12/01*, end date = *2009/41*:
  - description 1: language id = *@*, description = *English description*.
  - description 2: language id = *Ã©!*, description = *French description*.
  - description 3: language id = *NL*, description = *Dutch description*.

application code = *1*.

#### Transaction 5:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*, start date = *2009-05-01*, end date = *2008-04-01*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French Description*.
  - description 3: language id = *NL*, description = *Dutch Description*.

application code = *1*.

#### Transaction 6:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - description 1: language id = *FR*, description = *French description*.
  - description 2: language id = *NL*, description =

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*Dutch description.*

application code = 1.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

**Message:**

**dm\_ref\_fot\_insert\_02.xml**

**Precondition:**

Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init\_ref\_footnote\_type\_setup.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable footnote type with footnote



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type id = VVV, 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.*

application code = 1.

#### Transaction 2:

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

#### Transaction 3:

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

application code = 2.

#### Transaction 4:

- Message 1: Insert a stable footnote type with footnote type id = VVQ, start date = 2009/125, end date = 147x:
  - description 1: language id = EN, description = *English description.*
  - description 2: language id = Ã©!, description = *French description.*
  - description 3: language id = NL, description = *Dutch description.*

application code = 1.

#### Transaction 5:

- Message 1: Insert a stable footnote type with footnote type id = VVQ, start date = 2009-05-01, end date = 2008-04-01:
  - 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*.

application code = *1*.

#### Transaction 6:

- Message 1: Insert a stable footnote type with footnote type id = *VVQ*, start date = *2009-05-01*:

- description 1: language id = *FR*, description = *French description*.

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

application code = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

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

#### Reply to transaction 6:

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

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**Message:**            **dm\_ref\_fot\_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\_footnote\_type\_setup.xml* message should be successfully processed by the system.

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

**Transaction 1:**

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

application code = *1*.

**Transaction 2:**

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

application code = *1*.

**Transaction 3:**

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - description 1: language id = *EN*, description = *English Description*.
  - description 2: language id = *FR*, description = *French DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench*

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*DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
DescriptionFrench DescriptionFrench  
Description.*

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

application code = *1*.

#### Transaction 4:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - 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.*

application code = *1*.

#### Transaction 5:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - description 1: language id = *EN*, description = *English Description.*
  - description 2: language id = *FR*, description = *French Description.*
  - description 3: language id = *XX*, description = *Description for a non existing language.*
  - description 4: language id = *NL*, description = *Dutch Description.*

application code = *1*.

#### Transaction 6:

- Message 1: Insert an unstable footnote type with footnote

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type id = *RRQ*:

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

application code = *1*.

Transaction 7:

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

application code = *1*.

Transaction 8:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - 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.*

application code = *1*.

Transaction 9:

- Message 1: Insert an unstable footnote type with footnote type id = *RRQ*:
  - 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.*

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**Expected  
output:**

application code = 1.

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.

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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.

Reply to transaction 9:

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

**Message:** dm\_ref\_fot\_insert\_04.xml

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

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

Transaction 1:

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

application code = *1*.

Transaction 2:

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

application code = *1*.

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### Transaction 3:

- Message 1: Insert a stable footnote type with footnote type id = VVQ, start date = 2009-01-01:
  - description 1: language id = EN, description = *English Description.*
  - description 2: language id = FR, description = *French DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench DescriptionFrench Description.*
  - description 3: language id = NL, description = *Dutch Description.*

application code = 1.

### Transaction 4:

- Message 1: Insert a stable footnote type with footnote type id = VVQ, 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 = FR, description = *Second French Description.*
  - description 4: language id = NL, description = *Dutch Description.*

application code = 1.

### Transaction 5:

- Message 1: Insert a stable footnote type with footnote type id = VVQ, start date = 2009-01-01:
  - description 1: language id = EN, description =



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*English Description.*

- description 2: language id = *FR*, description = *French Description.*
- description 3: language id = *XX*, description = *Description for a non existing language.*
- description 4: language id = *NL*, description = *Dutch Description.*

application code = *1*.

Transaction 6:

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

application code = *1*.

Transaction 7:

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

application code = *1*.

Transaction 8:

- Message 1: Insert a stable footnote type with footnote type id = *VVQ*, start date = *2009-01-01*:
  - 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.*

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application code = 1.

#### Transaction 9:

- Message 1: Insert a stable footnote type with footnote type id = *VVQ*, start date = *2009-01-01*:
  - description 1: language id = *EN*, description = *English D kg: escription.*
  - description 2: language id = *FR*, description = *French kg, Description.*
  - description 3: language id = *NL*, description = *Dutch Description.*

application code = 1.

#### Transaction 10:

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

#### **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:

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- 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.

### 2.6.3. Test case dm\_ref\_fot\_update: Update of a footnote type

**Message:** dm\_ref\_fot\_update\_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\_footnote\_type\_setup.xml* message should be successfully processed by the system.

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

**Transaction 1:**

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

application code = *1*.

**Transaction 2:**

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

application code = *1*.

**Transaction 3:**

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

application code = *1*.

**Transaction 4:**

- Message 1: Insert a stable footnote type with footnote

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type id = *BBC*, start date = *2008-01-01*:

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

application code = > *1*.

#### Transaction 5:

- Message 1: Insert a stable footnote with footnote type id = *BBC*, footnote id = *00007*, start date = *2008-02-10*, end date = *2009-01-10*:
  - description period 1: start date = *2008-02-10*:
    - description 1: language id = *EN*, description = *English Description*.
    - description 2: language id = *FR*, description = *French Description*.
    - description 3: language id = *NL*, description = *Dutch Description*.

#### Transaction 6:

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

application code = *1*.

#### Transaction 7:

- Message 1: Insert a stable footnote with footnote type id = *SOS*, footnote id = *00008*, start date = *2008-02-10*, end date = *2009-01-10*:
  - description period 1: start date = *2008-02-10*:
    - 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*.

**Expected output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

**Message:**

**dm\_ref\_fot\_update\_01.xml**

**Precondition:**

Make sure the *dm\_ref\_fot\_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 footnote type with footnote type id = *VDV*:
  - description 1: language id = *EN*, description = *English Description updated*.
  - description 2: language id = *FR*, description = *French Description updated*.
  - description 3: language id = *NL*, description = *Dutch Description updated*.

application code = *1*.

Transaction 2:

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

Transaction 3:

- Message 1: Update the unstable footnote type with footnote type id = *HFD*:
  - description 1: language id = *EN*, description =

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*English Description updated.*

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

application code = *1*.

Transaction 4:

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

application code = *1*.

Transaction 5:

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

application code = *1*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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- 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 footnote.type.ref : VR-VI-11: The publication status of data can only be unstable if the information is new in the system or the previous version of the information also has publication status unstable.

**Message:** dm\_ref\_fot\_update\_02.xml

**Precondition:** Make sure the *dm\_ref\_fot\_update\_01.xml* message has been successfully processed.

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

Transaction 1:

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

application code = 1.

Transaction 2:

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

Transaction 3:

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

application code = 1.



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#### Transaction 4:

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

#### Transaction 5:

- Message 1: Update the stable footnote type with footnote type id = *BBC*, start date = *2008-02-10*, end date = *2008-08-01*:
    - 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*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

- Message 1, on footnote.type.ref : VR-FOT-4: The validity period of the footnote type must span the validity

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period of all related stable footnotes.

**Message:** **dm\_ref\_fot\_update\_03.xml**

**Precondition:** Make sure the *dm\_ref\_fot\_update\_02.xml* message has been successfully processed.

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

**Transaction 1:**

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

application code = *1*.

**Transaction 2:**

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

**Transaction 3:**

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

application code = *1*.

**Transaction 4:**

- Message 1: Update the stable footnote type with footnote type id = *DVD*, start date = *2008-01-01*, end date = *2007-04-01*:
  - description 1: language id = *EN*, description = *English Description updated*.

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

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

application code = *1*.

#### Transaction 5:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*, end date = *2008-08-01*:

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

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

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

application code = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

- Message 1 : OK.

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

- Message 1, on footnote.type.ref : VR-FOT-4: The validity period of the footnote type must span the validity period of all related stable footnotes.

### **2.6.4. Test case dm\_ref\_fot\_delete: Deletion of a footnote type**

**Message:** **dm\_ref\_fot\_delete\_setup\_01.xml**

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

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*init\_ref\_footnote\_type\_setup.xml* message should be successfully processed by the system.

**Content:**

The message is composed of the following transactions:

Transaction 1:

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

application code = *1*.

Transaction 2:

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

application code = *1*.

Transaction 3:

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

application code = *1*.

Transaction 4:

- Message 1: Insert a stable footnote with footnote type id = *BBC*, footnote id = *00007*, start date = *2008-02-10*, end

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date = 2009-01-01:

- description period 1: start date = 2008-02-10:
  - description 1: language id = *EN*,  
description = *English description*.
  - description 2: language id = *FR*,  
description = *French description*.
  - description 3: language id = *NL*,  
description = *Dutch description*.

**Expected  
output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

**Message:**

**dm\_ref\_fot\_delete\_01.xml**

**Precondition:**

Make sure the message dm\_ref\_fot\_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 footnote type with footnote type id = *VDV*.

Transaction 2:

- Message 1: Delete the footnote type with footnote type id = *DVD*.

Transaction 3:

- Message 1: Request the footnote type with query space field = *FOOTNOTE TYPE.FOOTNOTE TYPE REF.Footnote type id*, operator = =, constant = *VDV*.
- Message 2: Request the footnote type with query space field = *FOOTNOTE TYPE.FOOTNOTE TYPE REF.Footnote type id*, operator = =, constant = *DVD*.

Transaction 4:

- Message 1: Delete the footnote type with footnote type id = *VDV*.

Transaction 5:

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- Message 1: Delete the footnote type with footnote type id = *DVD*.

Transaction 6:

- Message 1: Delete the footnote type with footnote type id = *BBC*.

**Expected output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on footnote.type.ref : VR-FOT-2: The footnote type cannot be deleted if it is used on a footnote or a dynamic footnote.

## 2.6.5. Test case dm\_ref\_fot\_di\_update: Update of a footnote type description

**Message:** dm\_ref\_fot\_di\_update\_setup\_01.xml

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

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

Transaction 1:

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

application code = *1*.

Transaction 2:

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

application code = *1*.

**Expected output:**

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

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

**Message:**

**dm\_ref\_fot\_di\_update\_01.xml**

**Precondition**  
:

Make sure the *dm\_ref\_fot\_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 footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English Description updated.*
  - description 2: language id = *FR*, description = *- french description with dash.*
  - description 3: language id = *NL*, description = *Dutch Description updated.*

application code = *1*.

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#### Transaction 2:

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

application code = *1*.

#### Transaction 3:

- Message 1: Update the unstable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description updated.*
  - description 2: language id = *FR*, description = *Test with a fnt description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy zTest with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxy Test with a description which contains more than 1500*



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*characters:0123456789abcdefghijklmnopqrstuvwxyz  
Test with a description which contains more than  
1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz  
Test with a description which contains more than  
1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz  
Test with a description which contains more than  
1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz  
Test with a description which contains more than  
1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz  
Test with a description which contains more than  
1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz.*

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

application code = *1*.

#### Transaction 4:

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

application code = *1*.

#### Transaction 5:

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

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*description for nonexistent language.*

application code = 1.

Transaction 6:

- Message 1: Update the unstable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = */ description contains wrong character.*
  - description 2: language id = *FR*, description = *description starts with blank character.*
  - description 3: language id = *NL*, description = *description ends with blank character.*

application code = 1.

Transaction 7:

- Message 1: Update the unstable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description updated.*
  - description 2: language id = *FR*, description = *French description starting with two points:.*
  - description 3: language id = *NL*, description = *Dutch description updated.*

application code = 1.

Transaction 8:

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

application code = 1.

Transaction 9:

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

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*description.*

application code = 1.

**Expected  
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ' '.
- Message 1, on description : VR-DI-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-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-10: Description text cannot end with double point '!'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

**Message:**      **dm\_ref\_fot\_di\_update\_02.xml**

**Precondition**      Make sure the *dm\_ref\_fot\_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 footnote type with footnote type id = *DVD*, start date = *2008-02-01*:



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DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz

Test with a description which contains more than

1500

characters:0123456789abcdefghijklmnopqrstuvwxyz.

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

application code = *1*.

#### Transaction 4:

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

application code = *1*.

#### Transaction 5:

- Message 1: Update the stable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

- description 1: language id = *EN*, description = *English description updated.*
- description 2: language id = *FR*, description = *French description updated.*
- description 3: language id = *NL*, description = *Dutch description updated.*
- description 4: language id = *XX*, description = *XXX description for nonexistent language.*

application code = *1*.

#### Transaction 6:

- Message 1: Update the stable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = */ not allowed description.*
  - description 2: language id = *FR*, description = *starts with blank character.*
  - description 3: language id = *NL*, description = *ends with blank character.*

application code = *1*.

#### Transaction 7:

- Message 1: Update the stable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description updated.*
  - description 2: language id = *FR*, description = *French description ending with double point:.*
  - description 3: language id = *NL*, description = *Dutch description updated.*

application code = *1*.

#### Transaction 8:

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

application code = *1*.

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DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

#### Transaction 9:

- Message 1: Update the stable footnote type with footnote type id = *DVD*, start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *l*.
    - description 2: language id = *FR*, description = *l*.
    - description 3: language id = *NL*, description = *dutch description updated*.
- application code = *1*.

#### **Expected output:**

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

#### Reply to transaction 1:

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

#### Reply to transaction 2:

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

#### Reply to transaction 3:

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

#### Reply to transaction 4:

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

#### Reply to transaction 5:

- Message 1, on language.id : VR-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



DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

cannot end with double point ':

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ':
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ':
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ':
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ':
- Message 1, on description : VR-DI-10: Description text cannot end with double point ':
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space ':
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

**Message:**

**dm\_ref\_fot\_di\_update\_03.xml**

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DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

**Precondition** : Make sure the *dm\_ref\_fot\_di\_update\_02.xml* message has been successfully processed.

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

**Transaction 1:**

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *English description updated.*
    - description 2: language id = *FR*, description = *- description starting with dash.*
    - description 3: language id = *NL*, description = *Dutch description updated.*
- application code = *1*.

**Transaction 2:**

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
    - description 1: language id = *EN*, description = *English description updated.*
    - description 2: language id = *FR*, description = *"description inside double quote.*
    - description 3: language id = *NL*, description = *Dutch description updated.*
- application code = *1*.

**Transaction 3:**

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description.*
  - description 2: language id = *FR*, description = *Test with a fnt description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a description which contains more than 1500 characters:0123456789abcdefghijklmnopqrstuvwxyzTest with a description which contains more than*

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

1500

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz*

*Test with a description which contains more than*

*1500*

*characters:0123456789abcdefghijklmnopqrstuvwxyz.*

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

application code = *1*.

#### Transaction 4:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description.*
  - description 2: language id = *FR*, description = *French description.*
  - description 3: language id = *FR*, description =

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

*Second French description.*

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

application code = *1*.

Transaction 5:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description.*
  - description 2: language id = *FR*, description = *French description.*
  - description 3: language id = *NL*, description = *Dutch description.*
  - description 4: language id = *XX*, description = *XXX description for nonexistent language.*

application code = *1*.

Transaction 6:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = */ description.*
  - description 2: language id = *FR*, description = *starts with blank character.*
  - description 3: language id = *NL*, description = *ends with blank character.*

application code = *1*.

Transaction 7:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *English description.*
  - description 2: language id = *FR*, description = *French description ends in double point:.*
  - description 3: language id = *NL*, description = *Dutch description.*

application code = *1*.

Transaction 8:

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

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

Transaction 9:

- Message 1: Update the stable footnote type with footnote type id = *SOS*, start date = *2008-02-01*:
  - description 1: language id = *EN*, description = *l.*
  - description 2: language id = *FR*, description = *l.*
  - description 3: language id = *NL*, description = *dutch description.*
 application code = *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 '*'*'.

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.

Reply to transaction 9:

- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.
- Message 1, on description : VR-DI-10: Description text cannot end with double point ':|'.
- Message 1, on description : VR-DI-9: Description text cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

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DATA MAINTENANCE	Ref: TARIC3-STP
FOOTNOTE TYPE	

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

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
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_ref_rt_insert	Status
Message id	dm_ref_rt_insert_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
Message id	dm_ref_rt_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
Message id	dm_ref_rt_insert_03.xml	Status
Transaction id	Status	Comment
1		
Message id	dm_ref_rt_di_insert_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		

<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.



DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Message id	dm_ref_rt_di_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
Test case id	dm_ref_rt_update	Status
Message id	dm_ref_rt_update_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
Message id	dm_ref_rt_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
Message id	dm_ref_rt_update_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
Message id	dm_ref_rt_update_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
Message id	dm_ref_rt_update_04.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
Message id	dm_ref_rt_di_update_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
Message id	dm_ref_rt_di_update_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6

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8

9

Message id	dm_ref_rt_di_update_02.xml	Status
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Transaction id	Status	Comment
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1

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Message id	dm_ref_rt_di_update_03.xml	Status
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Transaction id	Status	Comment
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1

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Test case id	dm_ref_rt_delete	Status
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Message id	dm_ref_rt_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

Message id	dm_ref_rt_delete_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

5

6

Test case id	dm_ref_rg_insert	Status
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Message id	dm_ref_rg_insert_01.xml	Status
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Transaction id	Status	Comment
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1

2

3

4

5

6

Message id	dm_ref_rg_insert_02.xml	Status
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Transaction id	Status	Comment
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1

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

2  
3  
4  
5  
6

Message id	dm_ref_rg_insert_03.xml	Status
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Transaction id	Status	Comment
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1  
2  
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Message id	dm_ref_rg_insert_04.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
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10  
11

Test case id	dm_ref_rg_update	Status
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Message id	dm_ref_rg_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3

Message id	dm_ref_rg_update_setup_02.xml	Status
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Transaction id	Status	Comment
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1  
2  
3

Message id	dm_ref_rg_update_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5

Message id	dm_ref_rg_update_02.xml	Status
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Transaction id	Status	Comment
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1  
2  
3

DG TAXUD – TARIC3-STP – System Test Plan - Part 2		
TEST REPORT FORM		Ref: TARIC3-STP
TEST CASE EXECUTION		

4

Message id	dm_ref_rg_update_03.xml	Status
Transaction id	Status	Comment

1

2

3

4

Message id	dm_ref_rg_update_04.xml	Status
Transaction id	Status	Comment

1

2

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4

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9

Message id	dm_ref_rg_update_05.xml	Status
Transaction id	Status	Comment

1

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4

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7

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9

10

Message id	dm_ref_rg_update_06.xml	Status
Transaction id	Status	Comment

1

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11

Test case id	dm_ref_rg_delete	Status
Message id	dm_ref_rg_delete_setup_01.xml	Status

Transaction id	Status	Comment
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1

2

3

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Message id	dm_ref_rg_delete_01.xml	Status
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DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Transaction id	Status	Comment
1		
2		
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5		
6		
7		

Test case id	dm_ref_ern_insert	Status
Message id	init_ref_export_refund_nomenclature_setup.xml	Status

Transaction id	Status	Comment
1		
2		
3		
4		
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6		
7		
8		
9		
10		

Message id	dm_ref_ern_insert_01.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		

Message id	dm_ref_ern_insert_02.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
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10		
11		
12		
13		
14		

Message id	dm_ref_ern_insert_03.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

1  
2  
3

Message id	dm_ref_ern_insert_04.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

Message id	dm_ref_ern_di_insert_01.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_ref_ern_di_insert_02.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9

Test case id	dm_ref_ern_update	Status
Message id	dm_ref_ern_update_setup_01.xml	Status

Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8  
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10  
11  
12

Message id	dm_ref_ern_update_01.xml	Status
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DG TAXUD – TARIC3-STP – System Test Plan - Part 2		
TEST REPORT FORM		Ref: TARIC3-STP
TEST CASE EXECUTION		

Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Message id	dm_ref_ern_update_02.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Message id	dm_ref_ern_update_03.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Message id	dm_ref_ern_update_04.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		

Message id	dm_ref_ern_update_05.xml	Status
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Transaction id	Status	Comment
1		
2		
3		
4		

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

5  
6  
7  
8  
9  
10  
11  
12  
13

Message id	dm_ref_ern_update_06.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13

Message id	dm_ref_ern_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1  
2

Message id	dm_ref_ern_di_update_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_ref_ern_di_update_02.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_ref_ern_di_update_03.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5



DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6

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Test case id	dm_ref_ern_delete	Status
Message id	dm_ref_ern_delete_setup_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

Message id	dm_ref_ern_delete_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

Test case id	dm_ref_mou_insert	Status
Message id	dm_ref_mou_insert_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

Message id	dm_ref_mou_insert_02.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

Message id	dm_ref_mou_insert_03.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

7

8

9

10

Message id	dm_ref_mou_insert_04.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6  
7  
8  
9  
10

Test case id	dm_ref_mou_update	Status
Message id	dm_ref_mou_update_setup_01.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8

Message id	dm_ref_mou_update_01.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6

Message id	dm_ref_mou_update_02.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6

Message id	dm_ref_mou_update_03.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6

Message id	dm_ref_mou_update_04.xml	Status
Transaction id	Status	Comment

1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_ref_mou_update_05.xml	Status
Transaction id	Status	Comment

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

1  
2  
3  
4  
5  
6  
7  
8  
9

Message id	dm_ref_mou_update_06.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8  
9

Test case id	dm_ref_mou_delete	Status
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Message id	dm_ref_mou_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
7  
8

Message id	dm_ref_mou_delete_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5  
6  
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8  
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Test case id	dm_ref_cet_insert	Status
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Message id	init_certificate_type_setup_01.xml	Status
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Transaction id	Status	Comment
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1

Message id	dm_ref_cet_insert_01.xml	Status
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Transaction id	Status	Comment
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1  
2  
3  
4  
5

DG TAXUD – TARIC3-STP – System Test Plan - Part 2		
TEST REPORT FORM		Ref: TARIC3-STP
TEST CASE EXECUTION		

6

Message id	dm_ref_cet_insert_02.xml	Status
Transaction id	Status	Comment

1

2

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6

Message id	dm_ref_cet_insert_03.xml	Status
Transaction id	Status	Comment

1

Message id	dm_ref_cet_di_insert_01.xml	Status
Transaction id	Status	Comment

1

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9

Message id	dm_ref_cet_di_insert_02.xml	Status
Transaction id	Status	Comment

1

2

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4

5

6

7

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9

Test case id	dm_ref_cet_update	Status
Message id	dm_ref_cet_update_setup_01.xml	Status

Transaction id	Status	Comment
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1

2

Message id	dm_ref_cet_update_01.xml	Status
Transaction id	Status	Comment

1

2

3

4

5

6

Message id	dm_ref_cet_update_02.xml	Status
Transaction id	Status	Comment

1

2

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4

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_ref_cet_update_03.xml	Status
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Transaction id	Status	Comment
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1

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Message id	dm_ref_cet_update_04.xml	Status
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Transaction id	Status	Comment
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1

2

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4

Message id	dm_ref_cet_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1

2

Message id	dm_ref_cet_di_update_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_ref_cet_di_update_02.xml	Status
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Transaction id	Status	Comment
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Message id	dm_ref_cet_di_update_03.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

Test case id	dm_ref_cet_delete	Status
Message id	dm_ref_cet_delete_setup_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
Message id	dm_ref_cet_delete_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
7		
Test case id	dm_ref_fot_insert	Status
Message id	dm_ref_fot_insert_01.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
Message id	dm_ref_fot_insert_02.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
Message id	dm_ref_fot_insert_03.xml	Status
Transaction id	Status	Comment
1		
2		
3		
4		
5		
6		
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8		
9		
Message id	dm_ref_fot_insert_04.xml	Status
Transaction id	Status	Comment
1		
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4		
5		

DG TAXUD – TARIC3-STP – System Test Plan - Part 2	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Test case id	dm_ref_fot_update	Status
Message id	dm_ref_fot_update_setup_01.xml	Status
Transaction id	Status	Comment

1  
2  
3  
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Message id	dm_ref_fot_update_01.xml	Status
Transaction id	Status	Comment

1  
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3  
4  
5  
6

Message id	dm_ref_fot_update_02.xml	Status
Transaction id	Status	Comment

1  
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4  
5  
6

Message id	dm_ref_fot_update_03.xml	Status
Transaction id	Status	Comment

1  
2  
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6

Test case id	dm_ref_fot_delete	Status
Message id	dm_ref_fot_delete_setup_01.xml	Status
Transaction id	Status	Comment

1  
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Message id	dm_ref_fot_delete_01.xml	Status
Transaction id	Status	Comment

1  
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DG TAXUD – TARIC3-STP – System Test Plan - Part 2		
TEST REPORT FORM		Ref: TARIC3-STP
TEST CASE EXECUTION		

6

Test case id	dm_ref_fot_di_update	Status
Message id	dm_ref_fot_di_update_setup_01.xml	Status
Transaction id	Status	Comment

1

2

Message id	dm_ref_fot_di_update_01.xml	Status
Transaction id	Status	Comment

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Message id	dm_ref_fot_di_update_02.xml	Status
Transaction id	Status	Comment

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Message id	dm_ref_fot_di_update_03.xml	Status
Transaction id	Status	Comment

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