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DOCUMENT HISTORY

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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
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1	11	01/12/2009	Additional test cases	Update	As requested
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2	00	18/05/2010	Sent for Acceptance.	Update	As requested
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EDI.	REV.	DATE	DESCRIPTION	ACTION	SECTIONS/ PAGES
2	10	29/10/2010	Sent for Review to DG TAXUD	-	-
3	00	18/11/2010	Sent for Acceptance to DG TAXUD	-	-
3	10	18/05/2011	Submitted for Review to Taxation and Customs Union DG.	Update	As Required
3	20	27/05/2011	Implemented comments from DG TAXUD and QAC. Submitted for Acceptance to Taxation and Customs Union DG.	Update	As Required

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1. INTRODUCTION

1.1. Objective of this document

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

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

- Measure type;
- Meursing Table Plan.

1.2. Structure of this document

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

1.3. Intended audience

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

1.4. Abbreviations and acronyms

CDCO	Centrally Developed Centrally Operated
DDS	Data Dissemination System
JDBC	Java DataBase Connectivity
MS	Member State
SQL	Structured Query Language
TARIC	TARif Intégré Communautaire
TIN	Trader Identification Number
UNIX	Unix operation system
VAT	Value-Added Tax
VIES	VAT Information Exchange System
XML	eXtensible Markup Language

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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. Measure type

2.1.1. Test case `init_measure_type_setup`: Insertion of measure type reference data

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

Transaction 2:

- Message 1: Insert a stable country group with country group id = *1000*, start date = *1900-01-01*, country group sid = *1*, area code = *1*:
 - description period 1: start date = *1900-01-01*:
 - description 1: language id = *EN*, description = *English Description of country group*.
 - description 2: language id = *FR*, description = *French Description of country group*.
 - description 3: language id = *NL*, description = *Dutch Description of country group*.

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- Message 2: Insert a stable country group with country group id = 1001, start date = 2008-01-01, country group sid = 2, end date = 2020-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*
- Message 3: Insert a stable country group with country group id = 1003, start date = 2008-01-01, country group sid = 3, end date = 2020-01-01, area code = 1:
 - description period 1: start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of country group.*
 - description 2: language id = FR, description = *French Description of country group.*
 - description 3: language id = NL, description = *Dutch Description of country group.*

Transaction 3:

- Message 1: Insert 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.
- Message 2: Insert a stable measure type series with measure type series id = CC, start date = 2008-01-01, end date = 2009-01-01:
 - description 1: language id = EN, description =

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English Description of M. Type CC.

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

measure type combination = 0.

- Message 3: Insert an unstable measure type series with measure type series id = *SU*, start date = 2008-01-01:

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

measure type combination = 0.

Transaction 4:

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

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

application code = 1.

- Message 2: Insert a stable additional code type with additional code type id = *I*, start date = 2008-01-01, end date = 2010-01-01:

- 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.*

application code = 0.

- Message 3: Insert an unstable additional code type with additional code type id = *B*, start date = 2008-01-01:

- description 1: language id = *EN*, description =

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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 = 0.

Transaction 5:

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

Transaction 6:

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

statistical indicator = 0.

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Transaction 7:

- Message 1: Insert a stable legal regulation with regulation id = *R0801010*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 8:

- 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*.

Transaction 9:

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

Transaction 10:

- Message 1: Insert a stable measure action code with action code = *302*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Action 302*.
 - description 2: language id = *FR*, description = *French Description of Measure Action 302*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Action 302*.

Transaction 11:

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

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English Description of unit qualifier A.

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

Transaction 12:

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

application code = 9.

Transaction 13:

- Message 1: Insert a stable footnote with footnote type id = *ACF*, footnote id = *00700*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English Description of footnote ACF 00700.*
 - description 2: language id = *FR*, description = *French Description of footnote ACF 00700.*
 - description 3: language id = *NL*, description = *Dutch Description of footnote ACF 00700.*

Transaction 14:

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

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

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

Transaction 15:

- Message 1: Insert a stable duty expression with duty expression id = *33*, start date = *1995-01-01*:
 - description 1: language id = *EN*, description = *English Description of duty expression 33*.
 - description 2: language id = *FR*, description = *French Description of duty expression 33*.
 - description 3: language id = *NL*, description = *Dutch Description of duty expression 33*.

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

Transaction 16:

- Message 2: Insert a stable base regulation with regulation id = *R0801010*, regulation role type = *1*, start date = *2008-01-01*, end date = *2020-12-31*, community code = *1*, regulation group id = *GRA*, approved flag = *1*.

Transaction 17:

- Message 1: Insert a stable legal regulation with regulation id = *R0801020*, published date = *2008-01-01*, official journal number = *1*, official journal page = *1*.

Transaction 18:

- Message 2: Insert a stable base regulation with regulation id = *R0801020*, regulation role type = *1*, start date = *2008-01-01*, end date = *2020-12-31*, community code =

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I, regulation group id = *GRA*, approved flag = *I*.

Transaction 19:

- Message 1: Insert a stable duty expression with duty expression id = 34, start date = 1995-01-01:
 - description 1: language id = *EN*, description = *English Description of duty expression 34.*
 - description 2: language id = *FR*, description = *French Description of duty expression 34.*
 - description 3: language id = *NL*, description = *Dutch Description of duty expression 34.*

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

Transaction 20:

- Message 1: Insert a stable duty expression with duty expression id = 35, start date = 1995-01-01:
 - description 1: language id = *EN*, description = *English Description of duty expression 35.*
 - description 2: language id = *FR*, description = *French Description of duty expression 35.*
 - description 3: language id = *NL*, description = *Dutch Description of duty expression 35.*

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

Transaction 21:

- Message 1: Insert a stable duty expression with duty expression id = 36, start date = 1995-01-01:
 - description 1: language id = *EN*, description = *English Description of duty expression 35.*
 - description 2: language id = *FR*, description = *French Description of duty expression 35.*
 - description 3: language id = *NL*, description = *Dutch Description of duty expression 35.*

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

Transaction 22:

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

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= ACF, footnote id = 00701, start date = 2000-01-01:

- description period 1: start date = 2000-01-01:
 - description 1: language id = EN, description = *English Description of footnote ACF 00701.*
 - description 2: language id = FR, description = *French Description of footnote ACF 00701.*
 - description 3: language id = NL, description = *Dutch Description of footnote ACF 00701.*

Transaction 23:

- Message 1: Insert a stable additional code type with additional code type id = C, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of additional code 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 = 3.

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

application code = 4.

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

application code = 0.

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Expected output:

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Reply to transaction 23: Status ok.

2.1.2. Test case dm_mt_insert: Insertion of a measure type

Message: dm_mt_insert_01.xml

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

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processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measure type with measure type id = 700000:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 2:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE REF.Measure type id*, operator = *=*, constant = *700000*.

Transaction 3:

- Message 1: Insert an unstable measure type with measure type id = 700000:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 4:

- Message 1: Insert an unstable measure type with measure type id = 777:
 - description 1: language id = *ENI*, description = *English Description*.
 - description 2: language id = *F*, description =

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French Description.

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

measure type series id = *A*, trade movement code = *I*,
measure explosion level = *t*, measure component
applicable code = *-8*, order number capture code = *Ã§*,
accepted via input bridge = *8*, priority code = *I*.

Transaction 5:

- Message 1: Insert an unstable measure type with measure type id = *701000*, start date = *2009-05-01*, end date = *2008-04-01*:

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

measure type series id = *AA*, trade movement code = *I*,
measure explosion level = *2*, measure component
applicable code = *0*, order number capture code = *2*,
accepted via input bridge = *I*, priority code = *I*.

Transaction 6:

- Message 1: Insert an unstable measure type with measure type id = *701000*:

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

measure type series id = *AA*, trade movement code = *I*,
measure explosion level = *2*, measure component
applicable code = *0*, order number capture code = *2*,
accepted via input bridge = *I*, priority code = *I*.

Transaction 7:

- Message 1: Insert an unstable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

Transaction 8:

- Message 1: Insert an unstable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

measure type series id = *CC*:

- associated additional code type 1: additional code type id = *Z*.

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

Transaction 9:

- Message 1: Insert an unstable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

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

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

Transaction 10:

- Message 1: Insert an unstable measure type with measure

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type id = 701000, start date = 2009-01-01:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, 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 output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.type : VR-MT-1: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on trade.movement.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on measure.explosion.level : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on measure.component.applicable.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on order.number.capture.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

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- Message 1, on accepted.via.input.bridge : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on measure.type : VR-MT-3: The measure type series must exist.

Reply to transaction 8:

- Message 1, on additional.code.type.id : VR-MT-20: The associated additional code type must exist.

Reply to transaction 9:

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

Reply to transaction 10:

- Message 1, on measure.type : VR-MT-1: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

Message: dm_mt_insert_02.xml

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.
- measure type series id = AA, trade movement code = 1,

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

Transaction 2:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE*
REF.Measure type id, operator = =, constant = 700000.

Transaction 3:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 4:

- Message 1: Insert a stable measure type with measure type id = 777:
 - description 1: language id = *ENI*, description = *English Description*.
 - description 2: language id = *F*, description = *French Description*.
 - description 3: language id = *nl*, description = *Dutch Description*.

measure type series id = *A*, trade movement code = 1, measure explosion level = *t*, measure component applicable code = -8, order number capture code = *Å§*, accepted via input bridge = 8, priority code = 1.

Transaction 5:

- Message 1: Insert a stable measure type with measure type id = 701000, start date = 2009-05-01, end date = 2008-04-01:
 - 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.*

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

Transaction 6:

- Message 1: Insert a stable measure type with measure type id = *701000*, start date = *2008-01-01*:

- description 1: language id = *FR*, description = *French Description.*

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

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

Transaction 7:

- Message 1: Insert a stable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

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

Transaction 8:

- Message 1: Insert a stable measure type with measure type id = *701000*, 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 =

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Dutch Description.

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

Transaction 9:

- Message 1: Insert a stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

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

Transaction 10:

- Message 1: Insert a stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated additional code type 1: additional code type id = Z, start date = 2009-01-01.

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

Transaction 11:

- Message 1: Insert a stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, 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*.

Transaction 12:

- Message 1: Insert a stable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *A*, 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*.

Transaction 13:

- Message 1: Insert a stable measure type with measure type id = *701000*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *1*, start date = *2009-01-01*.

trade movement code = *1*, measure explosion level = *2*,

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

Transaction 14:

- Message 1: Insert a stable measure type with measure type id = 700001, start date = 2008-01-01:
 - 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 additional code type 1: additional code type id = E, start date = 2009-01-01.

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

Transaction 15:

- Message 1: Insert a stable measure type with measure type id = 700001, start date = 2008-01-01:
 - 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 additional code type 1: additional code type id = C, start date = 2009-01-01.

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

Transaction 16:

- Message 1: Insert a stable measure type with measure type id = 700001, start date = 2008-01-01:
 - description 1: language id = EN, description =

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English Description.

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

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *D*, start date = *2009-01-01*.

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on measure.type : VR-MT-1: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on language.id : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on trade.movement.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on measure.explosion.level : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on measure.component.applicable.code : GEN-INVALID-FORMAT-ERROR: Invalid format.
- Message 1, on order.number.capture.code : ERROR: cvc-enumeration-valid, cvc-type.3.1.3.
- Message 1, on accepted.via.input.bridge : 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.

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on measure.type : VR-MT-3: The measure type series must exist.

Reply to transaction 8:

- Message 1, on start.date : VR-MT-18: The validity period of the measure type series must span the validity period of all related measure types.

Reply to transaction 9:

- Message 1, on measure.type.series.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 10:

- Message 1, on additional.code.type.id : VR-MT-20: The associated additional code type must exist.

Reply to transaction 11:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.

Reply to transaction 12:

- Message 1, on associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 13:

- Message 1, on additional.code.type.id : VR-MT-21: The validity period of the additional code type association must be enclosed in validity period of the referenced additional code type.

Reply to transaction 14:

- Message 1, on additional.code.type.id : VR-MT-23: If the measure type is linked to at least one additional code type, whose application code is "Meursing", "Export Refund for Processed Agricultural Goods" or "ERN", then it must define the order number as not permitted.

Reply to transaction 15:

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- Message 1, on additional.code.type.id : VR-MT-23: If the measure type is linked to at least one additional code type, whose application code is "Meursing", "Export Refund for Processed Agricultural Goods" or "ERN", then it must define the order number as not permitted.

Reply to transaction 16:

- Message 1, on additional.code.type.id : VR-MT-23: If the measure type is linked to at least one additional code type, whose application code is "Meursing", "Export Refund for Processed Agricultural Goods" or "ERN", then it must define the order number as not permitted.

Message: dm_mt_insert_03.xml

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = NAG, start date = 2009-01-01.

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

Transaction 2:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *URG*, start date = *2009-01-01*, associated regulation group sid = *1*.

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

Transaction 3:

- Message 1: Insert an unstable measure type with measure type id = *700000*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *URG*, start date = *2009-01-01*, associated regulation group sid = *2*.

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

Expected output:

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

Reply to transaction 1:

- Message 1, on measure.type.ref : *VR-MTGR-3*: The referenced regulation group must exist.

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on measure.type : *VR-MT-1*: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

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Message: **dm_mt_insert_04.xml**

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert a stable measure type with measure type id = 700000:

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

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

Transaction 2:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2009-01-01:

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

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *B*, start date = 2009-01-01.

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

Transaction 3:

- Message 1: Insert a stable measure type with measure

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type id = 700000, start date = 2009-01-01:

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

measure type series id = AA:

- associated additional code type 1: additional code type id = A.

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

Transaction 4:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = *URG*, start date = 2009-01-01, associated regulation group sid = 1.

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

Transaction 5:

- Message 1: Insert a stable measure type with measure type id = 700000, 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 =

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Dutch Description.

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRA*, associated regulation group sid = 2.

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

Transaction 6:

- Message 1: Insert a stable measure type with measure type id = *700000*, start date = *2009-01-01*:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = 3.

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

Transaction 7:

- Message 1: Insert a stable measure type with measure type id = *700000*, start date = *2009-01-01*:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = 4.

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

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code = 1.

Transaction 8:

- Message 1: Insert a stable measure type with measure type id = 800000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = NAG, start date = 2009-01-01, associated regulation group sid = 5.

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

Transaction 9:

- Message 1: Insert a stable measure type with measure type id = 800000, start date = 2005-01-01:
 - 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 = GRA, start date = 2005-01-01, associated regulation group sid = 5.

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

Transaction 10:

- Message 1: Insert a stable measure type with measure type id = 800000, start date = 2009-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description =

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English Description.

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = *6*, end date = *2010-01-01*.

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

Transaction 11:

- Message 1: Insert a stable measure type with measure type id = *800000*, start date = *2009-07-03*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-07-03*, associated regulation group sid = *7*.
- associated regulation group 2: regulation group id = *GRA*, start date = *2009-07-03*, associated regulation group sid = *7*.

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

Expected output:

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

Reply to transaction 1:

- 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:

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- Message 1, on additional.code.type.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 3:

- Message 1, on 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 associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 4:

- Message 1, on associated.regulation.group.ref : VR-MTGR-8: The regulation group must be stable when the measure type-regulation group link is stable.

Reply to transaction 5:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.
- 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 6:

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

Reply to transaction 7:

- Message 1, on measure.type : VR-MT-1: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

Reply to transaction 8:

- Message 1, on measure.type.ref : VR-MTGR-3: The referenced regulation group must exist.

Reply to transaction 9:

- Message 1, on regulation.group.id : VR-MTGR-5: The validity period of the measure type-regulation group link must be enclosed by the validity period of the corresponding regulation group.

Reply to transaction 10:

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

Reply to transaction 11:

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- Message 1, on logical.key : VR-MTGR-1: The combination regulation group + measure type + start date must be unique in the universe of the stable and unstable data.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.
- Message 1, on measure.type.ref : VR-MT-1: The measure type reference (measure type ID) must be unique in the universe of the stable and unstable data.

2.1.3. Test case dm_mt_di_insert: Insertion of a measure type description

Message: dm_mt_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_measure_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 measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of measure type id 700000.*
 - description 2: language id = FR, description = *French Description of measure type id 700000.*
 - description 3: language id = NL, description = *Dutch Description of measure type id 700000.*

measure type series id = AA, 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.

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Transaction 2:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 3:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *Test with a multilingual description which contains more than 1500*
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 4:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000.*
 - description 3: language id = FR, description = *Second French description for measure type id 700000.*
 - description 4: language id = NL, description = *Dutch Description for measure type id 700000.*

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

Transaction 5:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000.*
 - description 3: language id = NL, description = *Dutch Description for measure type id 700000.*
 - description 4: language id = XX, description = *XX Description for measure type id 700000.*

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

Transaction 6:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = */English Description.*
 - description 2: language id = FR, description = *French description/.*
 - description 3: language id = NL, description = *Dutch Description.*

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

Transaction 7:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French description:.*

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

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

Transaction 8:

- Message 1: Insert an unstable measure type with measure type id = *700000*, start date = *2009-01-01*:

- description 1: language id = *EN*, description = *kg.*
- description 2: language id = *FR*, description = *kg.*
- description 3: language id = *NL*, description = *kg.*

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

Transaction 9:

- Message 1: Insert an unstable measure type with measure type id = *700000*, start date = *2009-01-01*:

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

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

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

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

- 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-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

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

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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_mt_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_measure_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 measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of measure type id 700000.*
 - description 2: language id = FR, description = *French Description of measure type id 700000.*
 - description 3: language id = NL, description =

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Dutch Description of measure type id 700000.

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

Transaction 2:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *"French Description"*.
 - description 3: language id = NL, description = *"Dutch Description"*.

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

Transaction 3:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *Test with a multilingual description which contains more than 1500.....*
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 4:

- Message 1: Insert a stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000.*

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- description 3: language id = *FR*, description = *Second French description for measure type id 700000*.
- description 4: language id = *NL*, description = *Dutch Description for measure type id 700000*.

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

Transaction 5:

- Message 1: Insert a stable measure type with measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description for measure type id 700000*.
 - description 2: language id = *FR*, description = *French description for measure type id 700000*.
 - description 3: language id = *NL*, description = *Dutch Description for measure type id 700000*.
 - description 4: language id = *XX*, description = *XX Description for measure type id 700000*.

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

Transaction 6:

- Message 1: Insert a stable measure type with measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = */English Description*.
 - description 2: language id = *FR*, description = *French description/*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 7:

- Message 1: Insert a stable measure type with measure

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type id = 700000, start date = 2009-01-01:

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

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

Transaction 8:

- Message 1: Insert a stable measure type with measure
type id = 700000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *kg*.
 - description 2: language id = *FR*, description = *kg*.
 - description 3: language id = *NL*, description = *kg*.

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

Transaction 9:

- Message 1: Insert a stable measure type with measure
type id = 700000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *kg*.
 - description 2: language id = *FR*, description = *kg*.
 - description 3: language id = *NL*, description = *Dutch description*.

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

Expected output:

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

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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.
- 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-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

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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.

2.1.4. Test case dm_mt_update: Update of a measure type

Message: dm_mt_update_setup_01.xml

Precondition: Make sure the database is empty first. Then, load the testing reference data in the system. For this purpose, *init_ref_measure_type_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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- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 2:

- Message 1: Insert a stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 3:

- Message 1: Insert an unstable measure type with measure type id = 702000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, associated regulation group sid = 3.
- associated additional code type 1: additional

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code type id = A.

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

Transaction 4:

- Message 1: Insert an unstable measure type with measure type id = 703000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, start date = 2009-01-01, associated regulation group sid = 99.
- associated additional code type 1: additional code type id = A.

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

Transaction 5:

- Message 1: Insert an unstable measure with measure type id = 702000, geographical area id = 1001, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, additional code id = 001, start date = 2009-01-01, measure sid = 1, end date = 2010-12-31, regulation id = R0801010, regulation role type = 1, regulation id = R0801020, regulation role type = 1.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = 703000, geographical area id = 1001, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, additional code id = 001, start date = 2009-01-01, measure sid = 2, end date = 2010-12-31, regulation id = R0801010, regulation role type = 1, regulation id = R0801020, regulation role type = 1.

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Transaction 7:

- Message 1: Insert an unstable measure type with measure type id = 704000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 8:

- Message 1: Insert an unstable measure type with measure type id = 705000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 9:

- Message 1: Insert an unstable measure agricultural duty expression rule with measure type id = 704000, geographical area id = 1003, start date = 2009-01-01, measure agricultural duty expression rule sid = 1, end date = 2010-12-31.

Transaction 10:

- Message 1: Insert an unstable measure agricultural duty expression rule with measure type id = 705000, geographical area id = 1003, start date = 2009-01-01, measure agricultural duty expression rule sid = 2, end date = 2010-12-31.

Transaction 11:

- Message 1: Insert an unstable measure type with measure type id = 706000, start date = 2009-01-01:

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2009-01-01*, associated regulation group sid = *16*.

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

Transaction 12:

- Message 1: Insert a stable measure type with measure type id = *707000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2009-01-01*, associated regulation group sid = *12*.

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

Transaction 13:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = *33*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *706000*, reduction type = *N*.

Transaction 14:

- Message 1: Insert a stable agricultural duty expression with duty expression id = *34*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *707000*, reduction type = *N*.

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Transaction 15:

- Message 1: Insert an unstable measure type with measure type id = 708000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 16:

- Message 1: Insert an unstable measure type with measure type id = 709000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 17:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 708000, geographical area id = 1001, start date = 2009-01-01, agricultural measure validation rule sid = 5, maximum value reduction indicator = 9, end date = 2010-12-31.

Transaction 18:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 709000, geographical area id = 1001, start date = 2009-01-01, agricultural measure validation rule sid = 6, maximum value reduction indicator = 9, end date = 2010-12-31.

Transaction 19:

- Message 1: Insert an unstable measure type with measure type id = 710000, start date = 2009-01-01:

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

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

Transaction 20:

- Message 1: Insert an unstable measure type with measure type id = *711000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 21:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *710000*, condition code = *AA*, action code = *302*.

Transaction 23:

- Message 1: Insert an unstable measure type with measure type id = *712000*:
 - 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

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id = *GRA*.

- associated additional code type 1: additional code type id = *A*.

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

Transaction 24:

- Message 1: Insert a stable measure type with measure type id = *713000*, start date = *2008-01-01*:

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

Transaction 25:

- Message 1: Insert an unstable measure with measure type id = *712000*, geographical area id = *1001*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, start date = *2008-01-01*, measure sid = *3*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 26:

- Message 1: Insert an unstable measure with measure type id = *713000*, geographical area id = *1001*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, start date = *2008-01-01*, measure sid = *4*, regulation id = *R0801010*, regulation role type = *1*.

Transaction 27:

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- Message 1: Insert an unstable measure type with measure type id = 725000, start date = 2009-01-01, end date = 2010-12-31:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated regulation group sid = 5, end date = 2010-12-31.

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

Transaction 28:

- Message 1: Insert a stable measure type with measure type id = 727000, start date = 2009-01-01, end date = 2010-12-31:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, start date = 2009-01-01, associated regulation group sid = 6, end date = 2010-12-31.

- associated additional code type 1: additional code type id = A, start date = 2009-01-01, end date = 2010-12-31.

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

Transaction 29:

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

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= 727000, geographical area id = 1001, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, additional code id = 001, start date = 2009-01-01, measure sid = 29, end date = 2010-12-31, regulation id = R0801010, regulation role type = 1, regulation id = R0801020, regulation role type = 1.

Transaction 30:

- Message 1: Insert an unstable measure type with measure type id = 728000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated regulation group sid = 7.

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

Transaction 31:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 35, start date = 2009-01-01, end date = 2010-12-31, measure type id = 728000, reduction type = N.

Transaction 32:

- Message 1: Insert a stable measure type with measure type id = 729000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated regulation group sid = 8.

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

Transaction 34:

- Message 1: Insert a stable agricultural duty expression with duty expression id = 36, start date = 2009-01-01, end date = 2010-12-31, measure type id = 729000, reduction type = N.

Transaction 35:

- Message 1: Insert a stable measure type with measure type id = 730000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, start date = 2009-01-01, associated regulation group sid = 35.
- associated additional code type 1: additional code type id = A, start date = 2009-01-01.

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

Transaction 36:

- Message 1: Insert a stable measure with measure type id = 730000, geographical area id = 1001, goods nomenclature id = 0100000000, productline suffix = 80, additional code type id = A, additional code id = 001, start date = 2009-01-01, measure sid = 10, end date = 2010-12-31, regulation id = R0801010, regulation role type = 1, regulation id = R0801020, regulation role type = 1.

Transaction 37:

- Message 1: Insert a stable measure type with measure type id = 730001, 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 = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2009-01-01*, associated regulation group sid = *38*.

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

Transaction 38:

- Message 1: Insert a stable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00701*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *730001*, condition code = *AA*, action code = *302*.

Transaction 39:

- Message 1: Insert a stable measure type with measure type id = *730002*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description.*
 - description 2: language id = *FR*, description = *French Description.*
 - description 3: language id = *NL*, description = *Dutch Description.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2009-01-01*, associated regulation group sid = *39*.

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

Transaction 40:

- Message 1: Insert a stable agricultural measure validation rule with measure type id = *730002*, geographical area id = *1001*, start date = *2009-01-01*, agricultural measure validation rule sid = *40*, maximum value reduction indicator = *9*, end date = *2010-12-31*.

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**Expected
output:**

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Reply to transaction 6: Status ok.

Reply to transaction 7: Status ok.

Reply to transaction 8: Status ok.

Reply to transaction 9: Status ok.

Reply to transaction 10: Status ok.

Reply to transaction 11: Status ok.

Reply to transaction 12: Status ok.

Reply to transaction 13: Status ok.

Reply to transaction 14: Status ok.

Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Reply to transaction 23: Status ok.

Reply to transaction 24: Status ok.

Reply to transaction 25: Status ok.

Reply to transaction 26: Status ok.

Reply to transaction 27: Status ok.

Reply to transaction 28: Status ok.

Reply to transaction 29: Status ok.

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Reply to transaction 30: Status ok.

Reply to transaction 31: Status ok.

Reply to transaction 32: Status ok.

Reply to transaction 33: Status ok.

Reply to transaction 34: Status ok.

Reply to transaction 35: Status ok.

Reply to transaction 36: Status ok.

Reply to transaction 37: Status ok.

Reply to transaction 38: Status ok.

Reply to transaction 39: Status ok.

Reply to transaction 40: Status ok.

Message: **dm_mt_update_01.xml**

Precondition: Make sure the *dm_mt_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000 updated.*

measure type series id = AA:

- associated additional code type 1: additional code type id = A.

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.

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Transaction 2:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE*
REF.Measure type id, operator = =, constant = 700000.

Transaction 3:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2008-01-01, end date = 2007-04-01:

- description 1: language id = *EN*, description = *English Description of Measure Type 700000 updated.*
- description 2: language id = *FR*, description = *French Description of Measure Type 700000 updated.*
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000 updated.*

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

Transaction 4:

- Message 1: Update the unstable measure type with measure type id = 702000, start date = 2009-01-01, end date = 2009-12-31:

- description 1: language id = *EN*, description = *English Description of Measure Type 702000 updated.*
- description 2: language id = *FR*, description = *French Description of Measure Type 702000 updated.*
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 702000 updated.*

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, associated regulation group sid = *3*.
- associated additional code type 1: additional code type id = *A*.

trade movement code = *1*, measure explosion level = *2*,

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

Transaction 5:

- Message 1: Update the unstable measure type with measure type id = 704000, start date = 2009-01-01, end date = 2009-12-31:
 - description 1: language id = EN, description = *English Description of Measure Type 704000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 704000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 704000 updated.*

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

Transaction 6:

- Message 1: Update the unstable measure type with measure type id = 706000, start date = 2009-01-01, end date = 2009-12-31:
 - description 1: language id = EN, description = *English Description of Measure Type 706000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 706000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 706000 updated.*

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

Transaction 7:

- Message 1: Update the unstable measure type with measure type id = 708000, start date = 2009-01-01, end date = 2009-12-31:

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- description 1: language id = *EN*, description = *English Description of Measure Type 708000 updated.*
- description 2: language id = *FR*, description = *French Description of Measure Type 708000 updated.*
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 708000 updated.*

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

Transaction 8:

- Message 1: Update the unstable measure type with
measure type id = *710000*, start date = *2009-01-01*, end
date = *2009-12-31*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 710000 updated.*
 - description 2: language id = *FR*, description = *French Description of Measure Type 710000 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 710000 updated.*

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

Transaction 9:

- Message 1: Update the unstable measure type with
measure type id = *700000*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*

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updated.

measure type series id = AA:

- associated additional code type 1: additional code type id = Z.

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

Transaction 10:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000 updated.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA.

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

Transaction 11:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated additional code type 1: additional code type id = A.

trade movement code = 1, measure explosion level = 2, measure component applicable code = 0, order number

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capture code = 2, accepted via input bridge = 1, priority code = 1.

Transaction 12:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated additional code type 1: additional code type id = 1.

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

Transaction 13:

- Message 1: Update the unstable measure type with measure type id = 712000:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Expected output:

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

Reply to transaction 1:

- Message 1, on measure.type.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.

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure.type.ref : VR-MTGR-13: If a regulation group - measure type link had a measure type that is referenced in an agricultural duty expressions it can not be deleted.

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on additional.code.type.id : VR-MT-20: The associated additional code type must exist.

Reply to transaction 10:

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

Reply to transaction 11:

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

Reply to transaction 12:

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

Reply to transaction 13:

- Message 1, on associated.additional.code.type.list : VR-MT-22: The association between a measure type and an additional code type cannot be deleted if there is at least one measure which is related to this measure type and this additional code type (via the measures additional code).

Message: dm_mt_update_02.xml

Precondition: Make sure the *dm_mt_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure

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type id = 700000, start date = 2008-01-01:

- 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 additional code type 1: additional code type id = A, 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.

Transaction 2:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE*
REF.Measure type id, operator = =, constant = 700000.

Transaction 3:

- Message 1: Update the stable measure type with measure type id = 700000, 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*.

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = 702000, 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*.

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = *3*, end date = *2009-12-31*.
- associated additional code type 1: additional code type id = *A*, start date = *2009-01-01*, end date = *2009-12-31*.

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

Transaction 5:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*:
 - 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 additional code type 1: additional code type id = *Z*, 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*.

Transaction 6:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

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- associated regulation group 1: regulation group id = *AGR*, 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*.

Transaction 7:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *A*, 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*.

Transaction 8:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *1*, start date = *2009-01-01*.

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

Transaction 9:

- Message 1: Update the stable measure type with measure

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type id = 712000, start date = 2008-01-01:

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

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

Transaction 10:

- Message 1: Update the stable measure type with measure
type id = 730000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated additional code type 1: additional
code type id = *A*, start date = 2009-01-01.

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

Transaction 11:

- Message 1: Update the stable measure type with measure
type id = 730000, 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*.

measure type series id = *AA*:

- associated regulation group 1: regulation group
id = *GRA*, start date = 2009-01-01, associated

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regulation group sid = 35, end date = 2011-12-31.

- associated additional code type 1: additional code type id = A, start date = 2009-01-01.

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

Transaction 12:

- Message 1: Update the stable measure type with measure type id = 730001, 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*.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated regulation group sid = 38, end date = 2009-12-31.

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

Transaction 13:

- Message 1: Update the stable measure type with measure type id = 730002, 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*.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated

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regulation group sid = 39, end date = 2009-12-31.

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

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on additional.code.type.id : VR-MT-20: The associated additional code type must exist.

Reply to transaction 6:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.

Reply to transaction 7:

- Message 1, on associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 8:

- Message 1, on additional.code.type.id : VR-MT-21: The validity period of the additional code type association must be enclosed in validity period of the referenced additional code type.

Reply to transaction 9:

- Message 1, on associated.additional.code.type.list : VR-MT-22: The association between a measure type and an additional code type cannot be deleted if there is at least one measure which is related to this measure type and this additional code type (via the measures additional code).

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Reply to transaction 10:

- Message 1, on measure.type.ref : VR-MTGR-12: The measure type-regulation group link cannot be deleted if there are still measures referencing its measure type and regulation group and having their validity period spanned by the validity period of the measure type-regulation group link.

Reply to transaction 11:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the “measure type-regulation group” link must be enclosed by the validity period of the measure type.
- Message 1, on start.date : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.
- Message 1, on associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.
- Message 1, on measure.type : VR-MT-17: The validity period of the measure type must span the validity period of the measures, in which it is referenced.

Reply to transaction 12:

- Message 1, on measure.type : VR-MT-14: The validity period of the measure type must span the validity period of the dynamic footnote associations, in which it is referenced.

Reply to transaction 13:

- Message 1, on measure.type : VR-MT-13: The validity period of the measure type must span the validity period of the agricultural measures validation rules, in which it is referenced.

Message: **dm_mt_update_03.xml**

Precondition: Make sure the *dm_mt_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:

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

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *A*, 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*.

Transaction 2:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE*
REF.Measure type id, operator = *=*, constant = *701000*.

Transaction 3:

- Message 1: Update the stable measure type with measure type id = *701000*, 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*.

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = *703000*, 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 =

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Dutch Description.

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = *99*.
- associated additional code type 1: additional code type id = *A*, start date = *2009-01-01*, end date = *2009-12-31*.

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

Transaction 5:

- Message 1: Update the stable measure type with measure type id = *705000*, 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*.

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

Transaction 6:

- Message 1: Update the stable measure type with measure type id = *707000*, 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*.

measure type series id = AA:

- associated regulation group 1: regulation group id = *AGR*, start date = *2009-01-01*, associated regulation group sid = *12*.

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

Transaction 7:

- Message 1: Update the stable measure type with measure type id = 709000, 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*.

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

Transaction 8:

- Message 1: Update the stable measure type with measure type id = 711000, 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*.

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

Transaction 9:

- Message 1: Update the stable measure type with measure type id = 701000, 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 =

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Dutch Description.

measure type series id = AA:

- associated additional code type 1: additional code type id = Z, start date = 2009-01-01.

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

Transaction 10:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, 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.

Transaction 11:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated additional code type 1: additional code type id = A, 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.

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Transaction 12:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

measure type series id = AA:

- associated additional code type 1: additional code type id = 1, start date = 2009-01-01.

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

Transaction 13:

- Message 1: Update the stable measure type with measure type id = 713000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French Description.*
 - description 3: language id = NL, description = *Dutch Description.*

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

Expected output:

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

Reply to transaction 1:

- Message 1, on measure.type.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.

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Reply to transaction 4:

- Message 1, on start.date : VR-MTGR-6: The validity period of the 'measure type-regulation group' link must be enclosed by the validity period of the measure type.
- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the 'measure type-regulation group' link must be enclosed by the validity period of the measure type.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on start.date : VR-MTGR-6: The validity period of the 'measure type-regulation group' link must be enclosed by the validity period of the measure type.
- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the 'measure type-regulation group' link must be enclosed by the validity period of the measure type.
- Message 1, on measure.type : VR-MT-12: The validity period of the measure type must span the validity period of the agricultural duty expressions, in which it is referenced.

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on additional.code.type.id : VR-MT-20: The associated additional code type must exist.

Reply to transaction 10:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the 'measure type-regulation group' link must be enclosed by the validity period of the measure type.

Reply to transaction 11:

- Message 1, on associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 12:

- Message 1, on additional.code.type.id : VR-MT-21: The

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validity period of the additional code type association must be enclosed in validity period of the referenced additional code type.

Reply to transaction 13:

- Message 1, on measure.type.ref : VR-MTGR-12: The measure type-regulation group link cannot be deleted if there are still measures referencing its measure type and regulation group and having their validity period spanned by the validity period of the measure type-regulation group link.
- Message 1, on associated.additional.code.type.list : VR-MT-22: The association between a measure type and an additional code type cannot be deleted if there is at least one measure which is related to this measure type and this additional code type (via the measures additional code).

Message: dm_mt_update_04.xml

Precondition: Make sure the *dm_mt_update_setup_01.xml* message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure type with measure type id = 777000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000 updated.*

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

Transaction 2:

- Message 1: Update the unstable measure type with measure type id = 701000, start date = 2009-01-01:

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- description 1: language id = *EN*, description = *English Description of Measure Type 701000 updated.*
- description 2: language id = *FR*, description = *French Description of Measure Type 701000 updated.*
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 701000 updated.*

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

Transaction 3:

- Message 1: Update the unstable measure type with
measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000 updated.*

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

Transaction 4:

- Message 1: Update the unstable measure type with
measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000 updated.*

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measure type series id = AA:

- associated additional code type 1: additional code type id = B, start date = 2009-01-01.
- associated additional code type 2: additional code type id = B, start date = 2009-01-01.

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

Transaction 5:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000 updated.*

measure type series id = AA:

- associated regulation group 1: regulation group id = NRG.

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

Transaction 6:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000 updated.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000 updated.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000 updated.*

measure type series id = AA:

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- associated regulation group 1: regulation group id = *URG*, start date = *2008-01-01*.
- associated regulation group 2: regulation group id = *URG*, 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*.

Transaction 7:

- Message 1: Update the unstable measure type with measure type id = *725000*, start date = *2009-01-01*, end date = *2010-12-31*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *UGR*, start date = *2009-01-01*, associated regulation group sid = *5*, end date = *2009-06-30*.

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

Transaction 8:

- Message 1: Update the unstable measure type with measure type id = *728000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*, 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:

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

Reply to transaction 2:

- 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 3:

- Message 1, on measure.type : VR-MT-3: The measure type series must exist.

Reply to transaction 4:

- Message 1, on logical.key : VR-VI-5: The status detail indicates that at a given moment, there can only be a single version of a given data in the system.

Reply to transaction 5:

- Message 1, on measure.type.ref : VR-MTGR-3: The referenced regulation group must exist.

Reply to transaction 6:

- Message 1, on logical.key : VR-VI-5: The status detail indicates that at a given moment, there can only be a single version of a given data in the system.

Reply to transaction 7:

- Message 1, on measure.type.ref : VR-MTGR-2: The attributes regulation group cannot be modified.

Reply to transaction 8:

- Message 1, on measure.type.ref : VR-MTGR-13: If a regulation group - measure type link had a measure type that is referenced in an agricultural duty expressions it can not be deleted.

Message:

dm_mt_update_05.xml

Precondition:

Make sure the *dm_mt_update_setup_01.xml* message has been successfully processed.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure type id = 777000, start date = 2008-01-01:

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- description 1: language id = *EN*, description = *English Description of Measure Type 777000*.
- description 2: language id = *FR*, description = *French Description of Measure Type 777000*.
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 777000*.

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

Transaction 2:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

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

Transaction 3:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = *700000*:

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- description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
- description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
- description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

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

Transaction 5:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*, end date = *2010-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

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

Transaction 6:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

measure type series id = *AA*:

- associated additional code type 1: additional code type id = *B*, 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*.

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Transaction 7:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000.*
- measure type series id = AA:
- associated additional code type 1: additional code type id = A.
- trade movement code = 1, measure explosion level = 2, measure component applicable code = 0, order number capture code = 2, accepted via input bridge = 1.

Transaction 8:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000.*
- measure type series id = AA:
- associated regulation group 1: regulation group id = NRE, 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.

Transaction 9:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000.*
 - description 3: language id = NL, description =

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Dutch Description of Measure Type 700000.

measure type series id = AA:

- associated regulation group 1: regulation group id = *URG*, 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*.

Transaction 10:

- Message 1: Update the stable measure type with measure type id = *700000*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English Description of Measure Type 700000*.
 - description 2: language id = *FR*, description = *French Description of Measure Type 700000*.
 - description 3: language id = *NL*, description = *Dutch Description of Measure Type 700000*.

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRA*, associated regulation group sid = *20*.

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

Transaction 11:

- Message 1: Update the stable measure type with measure type id = *725000*, start date = *2009-01-01*, end date = *2010-12-31*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = *GRR*, start date = *2009-06-01*, associated regulation group sid = *5*, end date = *2010-10-31*.

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

Transaction 12:

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- Message 1: Update the stable measure type with measure type id = 725000, start date = 2007-01-01, end date = 2010-12-31:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2007-01-01, associated regulation group sid = 5, end date = 2010-12-31.

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

Transaction 13:

- Message 1: Update the stable measure type with measure type id = 725000, start date = 2009-01-01:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2008-01-01, associated regulation group sid = 5.

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

Transaction 14:

- Message 1: Insert a stable measure type with measure type id = 725001, start date = 2011-01-01:

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2011-01-01*, associated regulation group sid = *14*.

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

Transaction 15:

- Message 1: Update the stable measure type with measure type id = *725001*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*, associated regulation group sid = *14*.

- associated regulation group 2: regulation group id = *GRA*, start date = *2009-01-01*.

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

Transaction 16:

- Message 1: Update the stable measure type with measure type id = *706000*, start date = *2010-01-01*, end date = *2010-12-31*:

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

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *AGR*, start date = *2010-01-01*, associated

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regulation group sid = 16, end date = 2010-12-31.

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

Transaction 17:

- Message 1: Update the stable measure type with measure type id = 728000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on measure.type.series.ref : VR-MT-3: The measure type series must exist.

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on measure.type.ref : VR-MT-18: The validity period of the measure type series must span the validity period of all related measure types.

Reply to transaction 6:

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- Message 1, on additional.code.type.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 7:

- Message 1, on start.date : VR-VI-7: When the publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.
- Message 1, on associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 8:

- Message 1, on regulation.group.ref : VR-MTGR-3: The referenced regulation group must exist.

Reply to transaction 9:

- Message 1, on regulation.group.ref : VR-MTGR-8: The regulation group must be stable when the measure type-regulation group link is stable.

Reply to transaction 10:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.
- 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 associated.regulation.group.ref : VR-MTGR-2: The attributes regulation group cannot be modified.

Reply to transaction 12:

- Message 1, on regulation.group.ref : VR-MTGR-5: The validity period of the measure type-regulation group link must be enclosed by the validity period of the corresponding regulation group.

Reply to transaction 13:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.

Reply to transaction 14:

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

Reply to transaction 15:

- Message 1, on logical.key : VR-MTGR-1: The combination regulation group + measure type + start date must be unique in the universe of the stable and unstable data.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.

Reply to transaction 16:

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

Reply to transaction 17:

- Message 1, on associated.regulation.group.list : VR-MTGR-13: If a regulation group - measure type link has a measure type that is referenced in an agricultural duty expressions it can not be deleted.

Message: dm_mt_update_06.xml

Precondition: Make sure the dm_mt_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = SU, trade movement code = 1, measure explosion level = 2, measure component applicable code = 0, order number capture code = 2,

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accepted via input bridge = 1.

Transaction 2:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

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

Transaction 3:

- Message 1: Update the stable measure type with measure type id = 701000:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01, end date = 2010-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = CC, trade movement code = 1, measure explosion level = 2, measure component

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applicable code = 0, order number capture code = 2,
accepted via input bridge = 1.

Transaction 5:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = AA:

- associated additional code type 1: additional code type id = B, 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.

Transaction 6:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = AA:

- associated additional code type 1: additional code type id = A.

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

Transaction 7:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2008-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*

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- description 3: language id = *NL*, description = *Dutch Description of Measure Type 701000*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *NRE*, 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*.

Transaction 8:

- Message 1: Update the stable measure type with measure type id = *701000*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description of Measure Type 701000*.

- description 2: language id = *FR*, description = *French Description of Measure Type 701000*.

- description 3: language id = *NL*, description = *Dutch Description of Measure Type 701000*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *URG*, 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*.

Transaction 9:

- Message 1: Update the stable measure type with measure type id = *701000*, start date = *2008-01-01*:

- description 1: language id = *EN*, description = *English Description of Measure Type 701000*.

- description 2: language id = *FR*, description = *French Description of Measure Type 701000*.

- description 3: language id = *NL*, description = *Dutch Description of Measure Type 701000*.

measure type series id = *AA*:

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

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

Transaction 10:

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- Message 1: Update the stable measure type with measure type id = 701000, start date = 2007-01-01:

- description 1: language id = EN, description = *English Description of Measure Type 701000.*
- description 2: language id = FR, description = *French Description of Measure Type 701000.*
- description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, start date = 2007-01-01.

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

Transaction 11:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:

- description 1: language id = EN, description = *English Description of Measure Type 701000.*
- description 2: language id = FR, description = *French Description of Measure Type 701000.*
- description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, 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.

Transaction 12:

- Message 1: Update the stable measure type with measure type id = 727000, start date = 2009-01-01, end date = 2010-12-31:

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

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measure type series id = AA:

- associated regulation group 1: regulation group id = RAA, start date = 2009-06-01, associated regulation group sid = 6, end date = 2010-12-31.

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

Transaction 13:

- Message 1: Update the stable measure type with measure type id = 727000, start date = 2008-01-01, end date = 2009-01-01:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = GRA, start date = 2008-01-01, associated regulation group sid = 6, end date = 2009-01-01.
- associated additional code type 1: additional code type id = A, start date = 2008-01-01, end date = 2009-01-01.

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

Transaction 14:

- Message 1: Update the stable measure type with measure type id = 729000, start date = 2009-01-01, end date = 2009-06-01:

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

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01, associated

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regulation group sid = 8, end date = 2009-01-01.

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

Transaction 15:

- Message 1: Update the stable measure type with measure type id = 727000, start date = 2009-01-01, end date = 2010-12-31:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated additional code type 1: additional code type id = A, start date = 2009-01-01, end date = 2010-12-31.

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

Transaction 16:

- Message 1: Update the stable measure type with measure type id = 729000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 17:

- Message 1: Insert a stable measure type with measure type id = 727001, start date = 2012-01-01:
 - 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*.

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2012-01-01*, associated regulation group sid = *17*.

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

Transaction 18:

- Message 1: Update the stable measure type with measure type id = *727001*, start date = *2009-01-01*:

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

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

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, start date = *2009-01-01*.

- associated regulation group 2: regulation group id = *GRA*, start date = *2009-01-01*.

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

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

- Message 1, on measure.type.series.ref : VR-MT-3: The measure type series must exist.

Reply to transaction 3:

- Message 1, on start.date : VR-VI-7: When the

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publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

Reply to transaction 4:

- Message 1, on measure.type.ref : VR-MT-18: The validity period of the measure type series must span the validity period of all related measure types.

Reply to transaction 5:

- Message 1, on additional.code.type.id : VR-VI-6: When the publication status of data is set to stable, all foreign key reference data must exist as stable.

Reply to transaction 6:

- 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 associated.additional.code.type : VR-MT-15: The validity period of the measure type must span the validity period of the additional code type association, in which it is referenced.

Reply to transaction 7:

- Message 1, on regulation.group.ref : VR-MTGR-3: The referenced regulation group must exist.

Reply to transaction 8:

- Message 1, on regulation.group.ref : VR-MTGR-8: The regulation group must be stable when the measure type-regulation group link is stable.

Reply to transaction 9:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation group" link must be enclosed by the validity period of the measure type.
- 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 regulation.group.ref : VR-MTGR-5: The validity period of the measure type-regulation group link must be enclosed by the validity period of the corresponding regulation group.

Reply to transaction 11:

- Message 1, on associated.regulation.group : VR-MTGR-6: The validity period of the "measure type-regulation

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group" link must be enclosed by the validity period of the measure type.

Reply to transaction 12:

- Message 1, on associated.regulation.group.ref : VR-MTGR-2: The attributes regulation group cannot be modified.
- Message 1, on associated.additional.code.type.list : VR-MT-22: The association between a measure type and an additional code type cannot be deleted if there is at least one measure which is related to this measure type and this additional code type (via the measures additional code).

Reply to transaction 13:

- Message 1, on measure.type.ref : VR-MT-17: The validity period of the measure type must span the validity period of the measures, in which it is referenced.
- Message 1, on associated.regulation.group.ref : VR-MTGR-10: The validity period of a measure type-regulation group link must span the validity period of all measures with the same measure type and the same regulation group (regulation group of the generating base regulation or of the base regulation of the generating modification regulation), which have their start date within the validity period of this measure type-regulation group link.

Reply to transaction 14:

- Message 1, on measure.type.ref : VR-MT-12: The validity period of the measure type must span the validity period of the agricultural duty expressions, in which it is referenced.
- Message 1, on associated.regulation.group.ref : VR-MTGR-11: The validity period of the regulation group - measure type link must span the validity period of the agricultural duty expressions with the same measure type and regulation group "AGR".

Reply to transaction 15:

- Message 1, on associated.regulation.group.list : VR-MTGR-12: The measure type-regulation group link cannot be deleted if there are still measures referencing its measure type and regulation group and having their validity period spanned by the validity period of the measure type-regulation group link.

Reply to transaction 16:

- Message 1, on associated.regulation.group.list : VR-MTGR-13: If a regulation group - measure type link has

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a measure type that is referenced in an agricultural duty expressions it can not be deleted.

Reply to transaction 17:

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

Reply to transaction 18:

- Message 1, on logical.key : VR-MTGR-1: The combination regulation group + measure type + start date must be unique in the universe of the stable and unstable data.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.
- Message 1, on start.date : VR-MTGR-7: The validity period of a measure type-regulation group link can not overlap the validity period of another measure type-regulation group link with the same regulation group and the same measure type.

2.1.5. Test case dm_mt_delete: Deletion of a measure type

Message: dm_mt_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_measure_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 measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA, 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.

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Transaction 2:

- Message 1: Insert an unstable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 3:

- Message 1: Insert an unstable measure type with measure type id = 702000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

 - associated regulation group 1: regulation group id = GRA, associated regulation group sid = 3.
 - associated additional code type 1: additional code type id = A.

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

Transaction 4:

- Message 1: Insert an unstable measure type with measure type id = 703000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.

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

measure type series id = *AA*:

- associated regulation group 1: regulation group id = *GRA*, associated regulation group sid = *4*.
- associated additional code type 1: additional code type id = *A*.

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

Transaction 5:

- Message 1: Insert an unstable measure with measure type id = *702000*, geographical area id = *1001*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, start date = *2009-01-01*, measure sid = *1*, end date = *2010-12-31*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801020*, regulation role type = *1*.

Transaction 6:

- Message 1: Insert an unstable measure with measure type id = *703000*, geographical area id = *1001*, goods nomenclature id = *0100000000*, productline suffix = *80*, additional code type id = *A*, additional code id = *001*, start date = *2009-01-01*, measure sid = *2*, end date = *2010-12-31*, regulation id = *R0801010*, regulation role type = *1*, regulation id = *R0801020*, regulation role type = *1*.

Transaction 7:

- Message 1: Insert an unstable measure type with measure type id = *704000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

measure type series id = *AA*, 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*.

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Transaction 8:

- Message 1: Insert an unstable measure type with measure type id = 705000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 9:

- Message 1: Insert an unstable measure agricultural duty expression rule with measure type id = 704000, geographical area id = 1003, start date = 2009-01-01, measure agricultural duty expression rule sid = 1, end date = 2010-12-31.

Transaction 10:

- Message 1: Insert an unstable measure agricultural duty expression rule with measure type id = 705000, geographical area id = 1003, start date = 2009-01-01, measure agricultural duty expression rule sid = 2, end date = 2010-12-31.

Transaction 11:

- Message 1: Insert an unstable measure type with measure type id = 706000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

 - associated regulation group 1: regulation group id = AGR, start date = 2009-01-01.

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.

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Transaction 12:

- Message 1: Insert an unstable measure type with measure type id = 707000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

measure type series id = AA:

- associated regulation group 1: regulation group id = AGR, start date = 2009-01-01.

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

Transaction 13:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 33, start date = 2009-01-01, end date = 2010-12-31, measure type id = 706000, reduction type = N.

Transaction 14:

- Message 1: Insert an unstable agricultural duty expression with duty expression id = 34, start date = 2009-01-01, end date = 2010-12-31, measure type id = 707000, reduction type = N.

Transaction 15:

- Message 1: Insert an unstable measure type with measure type id = 708000:
 - description 1: language id = EN, description = *English Description*.
 - description 2: language id = FR, description = *French Description*.
 - description 3: language id = NL, description = *Dutch Description*.

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

Transaction 16:

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- Message 1: Insert an unstable measure type with measure type id = 709000:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 17:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 708000, geographical area id = 1001, start date = 2009-01-01, agricultural measure validation rule sid = 5, maximum value reduction indicator = 9, end date = 2010-12-31.

Transaction 18:

- Message 1: Insert an unstable agricultural measure validation rule with measure type id = 709000, geographical area id = 1001, start date = 2009-01-01, agricultural measure validation rule sid = 6, maximum value reduction indicator = 9, end date = 2010-12-31.

Transaction 19:

- Message 1: Insert an unstable measure type with measure type id = 710000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

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

Transaction 20:

- Message 1: Insert an unstable measure type with measure type id = 711000, 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 = *NL*, description = *Dutch Description*.

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

Transaction 21:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00700*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *710000*, condition code = *AA*, action code = *302*.

Transaction 22:

- Message 1: Insert an unstable dynamic footnote association rule with footnote type id = *ACF*, footnote id = *00701*, start date = *2009-01-01*, end date = *2010-12-31*, measure type id = *711000*, condition code = *AA*, action code = *302*.

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.

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Reply to transaction 15: Status ok.

Reply to transaction 16: Status ok.

Reply to transaction 17: Status ok.

Reply to transaction 18: Status ok.

Reply to transaction 19: Status ok.

Reply to transaction 20: Status ok.

Reply to transaction 21: Status ok.

Reply to transaction 22: Status ok.

Message: **dm_mt_delete_01.xml**

Precondition: Make sure the *message dm_mt_delete_setup_01.xml* has been correctly processed by the system.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Delete the measure type with measure type id = 700000.

Transaction 2:

- Message 1: Delete the measure type with measure type id = 701000.

Transaction 3:

- Message 1: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE REF.Measure type id*, operator = =, constant = 700000.
- Message 2: Request the measure type with query space field = *MEASURE TYPE.MEASURE TYPE REF.Measure type id*, operator = =, constant = 701000.

Transaction 4:

- Message 1: Delete the measure type with measure type id = 700000.

Transaction 5:

- Message 1: Delete the measure type with measure type id = 701000.

Transaction 6:

- Message 1: Delete the measure type with measure type id = 702000.

Transaction 7:

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- Message 1: Delete the measure type with measure type id = 703000.

Transaction 8:

- Message 1: Delete the measure type with measure type id = 704000.

Transaction 9:

- Message 1: Delete the measure type with measure type id = 705000.

Transaction 10:

- Message 1: Delete the measure type with measure type id = 706000.

Transaction 11:

- Message 1: Delete the measure type with measure type id = 707000.

Transaction 12:

- Message 1: Delete the measure type with measure type id = 708000.

Transaction 13:

- Message 1: Delete the measure type with measure type id = 709000.

Transaction 14:

- Message 1: Delete the measure type with measure type id = 710000.

Transaction 15:

- Message 1: Delete the measure type with measure type id = 711000.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on measure.type.id : VR-MT-4: The measure type cannot be deleted if it is used in a measure.

Reply to transaction 7:

- Message 1, on measure.type.id : VR-MT-4: The measure type cannot be deleted if it is used in a measure.

Reply to transaction 8:

- Message 1, on measure.type.id : VR-MT-7: A measure type cannot be deleted if it is used in a measure-agricultural duty expression rule.

Reply to transaction 9:

- Message 1, on measure.type.id : VR-MT-7: A measure type cannot be deleted if it is used in a measure-agricultural duty expression rule.

Reply to transaction 10:

- Message 1, on measure.type.id : VR-MT-8: A measure type cannot be deleted if it is used in an agricultural duty expression.

Reply to transaction 11:

- Message 1, on measure.type.id : VR-MT-8: A measure type cannot be deleted if it is used in an agricultural duty expression.

Reply to transaction 12:

- Message 1, on measure.type.id : VR-MT-9: A measure type cannot be deleted if it is used in an agricultural measure validation rule.

Reply to transaction 13:

- Message 1, on measure.type.id : VR-MT-9: A measure type cannot be deleted if it is used in an agricultural measure validation rule.

Reply to transaction 14:

- Message 1, on measure.type.id : VR-MT-10: A measure type cannot be deleted if used in a dynamic footnote association.

Reply to transaction 15:

- Message 1, on measure.type.id : VR-MT-10: A measure type cannot be deleted if used in a dynamic footnote association.

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2.1.6. Test case dm_mt_di_update: Update of a measure type description

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

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 700000.*
 - description 2: language id = FR, description = *French Description of Measure Type 700000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 700000.*

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

Transaction 2:

- Message 1: Insert an unstable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of Measure Type 701000.*
 - description 2: language id = FR, description = *French Description of Measure Type 701000.*
 - description 3: language id = NL, description = *Dutch Description of Measure Type 701000.*

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

Expected output:

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

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Message: **dm_mt_di_update_01.xml**

Precondition: Make sure the dm_mt_di_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description of measure type id 700000.*
 - description 2: language id = FR, description = *French Description of measure type id 700000.*
 - description 3: language id = NL, description = *Dutch Description of measure type id 700000.*

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

Transaction 2:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description".*
 - description 2: language id = FR, description = *"French Description".*
 - description 3: language id = NL, description = *"Dutch Description.*

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

Transaction 3:

- Message 1: Update the unstable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *Test with a multilingual description which contains more than 1500 characters:*

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

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

Transaction 4:

- Message 1: Update the unstable measure type with
measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description for measure type id 700000*.
 - description 2: language id = *FR*, description = *French description for measure type id 700000*.
 - description 3: language id = *FR*, description = *Second French description for measure type id 700000*.
 - description 4: language id = *NL*, description = *Dutch Description for measure type id 700000*.

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

Transaction 5:

- Message 1: Update the unstable measure type with
measure type id = *700000*, start date = *2009-01-01*:
 - description 1: language id = *EN*, description = *English Description for measure type id 700000*.
 - description 2: language id = *FR*, description = *French description for measure type id 700000*.
 - description 3: language id = *NL*, description = *Dutch Description for measure type id 700000*.
 - description 4: language id = *XX*, description = *XX Description for measure type id 700000*.

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

Transaction 6:

- Message 1: Update the unstable measure type with

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measure type id = 700000, start date = 2009-01-01:

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

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

Transaction 7:

- Message 1: Update the unstable measure type with
measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *English Description:.*
 - description 2: language id = *FR*, description = *French description:.*
 - description 3: language id = *NL*, description = *Dutch Description.*

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

Transaction 8:

- Message 1: Update the unstable measure type with
measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = *EN*, description = *kg:.*
 - description 2: language id = *FR*, description = *kg.*
 - description 3: language id = *NL*, description = *kg:.*

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

Transaction 9:

- Message 1: Update the unstable measure type with

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measure type id = 700000, start date = 2009-01-01:

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

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on language.id : VR-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

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cannot start or end with white space: no blank or tab character or (mark-up for) hard space '|'.

Reply to transaction 7:

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

Reply to transaction 8:

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

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

Message: **dm_mt_di_update_02.xml**

Precondition: Make sure the dm_mt_di_update_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French Description for measure type id 700000.*
 - description 3: language id = NL, description = *Dutch Description for measure type id 700000.*

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

Transaction 2:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *"English Description for measure type id 700000.*
 - description 2: language id = FR, description = *"Description for measure type id 700000".*
 - description 3: language id = NL, description = *Dutch Description for measure type id 700000".*

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

Transaction 3:

- Message 1: Update the stable measure type with measure

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type id = 700000, start date = 2009-01-01:

- description 1: language id = EN, description = *English Description.*
- description 2: language id = FR, description = *Test with a multilingual description which contains more than 1500.....*
- description 3: language id = NL, description = *Dutch Description.*

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000.*
 - description 3: language id = FR, description = *Second French description for measure type id 700000.*
 - description 4: language id = NL, description = *Dutch Description for measure type id 700000.*

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

Transaction 5:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000.*
 - description 3: language id = NL, description = *Dutch Description for measure type id 700000.*
 - description 4: language id = XX, description = *XX Description non existent language.*

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

Transaction 6:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = */English Description for measure type id 700000.*
 - description 2: language id = FR, description = *French description for measure type id 700000/.*
 - description 3: language id = NL, description = *Dutch Description for measure type id 700000.*

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

Transaction 7:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description.*
 - description 2: language id = FR, description = *French description for MT:.*
 - description 3: language id = NL, description = *Dutch Description.*

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

Transaction 8:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = *l.*
 - description 2: language id = FR, description = *l.*
 - description 3: language id = NL, description = *l;.*

measure type series id = AA, trade movement code = 1,
measure explosion level = 2, measure component

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applicable code = 0, order number capture code = 2,
accepted via input bridge = 1, priority code = 1.

Transaction 9:

- Message 1: Update the stable measure type with measure type id = 700000, start date = 2009-01-01:
 - description 1: language id = EN, description = l:.
 - description 2: language id = FR, description = l,.
 - description 3: language id = NL, description = Dutch description.

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on language.id : VR-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

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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_mt_di_update_03.xml**

Precondition: Make sure the dm_mt_di_update_02.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type 701000.*
 - description 2: language id = FR, description = - *Description for measure type 701000.*
 - description 3: language id = NL, description = *Dutch Description for measure type 701000.*

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

Transaction 2:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *"English Description for measure type 701000.*
 - description 2: language id = FR, description = *"for measure type 701000".*
 - description 3: language id = NL, description = *Dutch Description".*

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

Transaction 3:

- Message 1: Update the stable measure type with measure

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type id = 701000, start date = 2009-01-01:

- description 1: language id = EN, description = *English Description for measure type 701000.*
- description 2: language id = FR, description = *Test with a multilingual description which contains more than 1500 ...*
- description 3: language id = NL, description = *Dutch Description for measure type 701000.*

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

Transaction 4:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type 701000.*
 - description 2: language id = FR, description = *French description for measure type 701000.*
 - description 3: language id = FR, description = *Second French description for measure type 701000.*
 - description 4: language id = NL, description = *Dutch Description for measure type 701000.*

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

Transaction 5:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type 701000.*
 - description 2: language id = FR, description = *French description for measure type 701000.*
 - description 3: language id = NL, description = *Dutch Description for measure type 701000.*
 - description 4: language id = XX, description = *XX Description for measure type 701000 for*

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nonexistent language.

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

Transaction 6:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type 701000.*
 - description 2: language id = FR, description = *French description for measure type 701000.*
 - description 3: language id = NL, description = *Dutch Description for measure type 701000.*

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

Transaction 7:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *English Description for measure type 701000.*
 - description 2: language id = FR, description = *French description for measure type 701000:.*
 - description 3: language id = NL, description = *Dutch Description for measure type 701000.*

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

Transaction 8:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = *l.*
 - description 2: language id = FR, description = *l.*
 - description 3: language id = NL, description = *l;.*

measure type series id = AA, trade movement code = 1,
measure explosion level = 2, measure component

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applicable code = 0, order number capture code = 2,
accepted via input bridge = 1, priority code = 1.

Transaction 9:

- Message 1: Update the stable measure type with measure type id = 701000, start date = 2009-01-01:
 - description 1: language id = EN, description = l:.
 - description 2: language id = FR, description = l,.
 - description 3: language id = NL, description = Dutch description.

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

- Message 1, on language.id : VR-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

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

2.2.1. Test case init_ref_meursing_setup: Insertion of Meursing reference data

Message: init_ref_meursing_setup.xml

Precondition: First, make sure the database is empty.

Content: The message is composed of the following transactions:

Transaction 1:

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

Transaction 2:

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

application code = 8.
- Message 2: Insert a stable footnote type with footnote

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type id = *MUK*, start date = *1980-01-01*:

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

application code = 8.

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

application code = 9.

Transaction 3:

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

application code = 8.

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

application code = 8.

- Message 3: Insert an unstable footnote type with footnote type id = *FTE*, start date = *1980-01-01*:

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

application code = 9.

- Message 4: Insert a stable footnote type with footnote type id = *CI*, start date = *1980-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.

application code = 8.

Transaction 4:

- Message 1: Insert a stable footnote with footnote type id = *ACE*, footnote id = *01000*, 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 = *MUK*, footnote id = *19100*, start date = *2007-01-01*:
 - description period 1: start date = *2007-01-01*:
 - description 1: language id = *EN*, description = *English Description*.
 - description 2: language id = *FR*, description = *French Description*.
 - description 3: language id = *NL*, description = *Dutch Description*.
- Message 3: Insert a stable footnote with footnote type id = *MUK*, footnote id = *19200*, start date = *2007-01-01*:

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- description period 1: start date = 2007-01-01:
 - description 1: language id = *EN*,
description = *English Description*.
 - 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 = *FTU*, footnote id = *19000*, 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 footnote with footnote type id = *ACD*, footnote id = *01000*, start date = 2000-01-01:
 - description period 1: start date = 2000-01-01:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.
- Message 2: Insert a stable footnote with footnote type id = *MUR*, footnote id = *19100*, start date = 2010-01-01:
 - 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*.
- Message 3: Insert a stable footnote with footnote type id

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= *MUR*, footnote id = *19200*, start date = *2000-01-01*:

- description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.
- Message 4: Insert an unstable footnote with footnote type id = *FTE*, footnote id = *19000*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.
- Message 5: Insert a stable footnote with footnote type id = *ACD*, footnote id = *10000*, start date = *2000-01-01*:
 - description period 1: start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English Description*.
 - description 2: language id = *FR*,
description = *French Description*.
 - description 3: language id = *NL*,
description = *Dutch Description*.
- Message 6: Insert an unstable footnote with footnote type id = *CI*, footnote id = *015*, start date = *2010-01-01*:
 - 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*.
- Message 7: Insert an unstable footnote with footnote type

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id = *MUK*, footnote id = *01500*, start date = *2000-01-01*:

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

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.

2.2.2. Test case dm_me_insert: Insertion of a Meursing table plan

Message: dm_me_insert_01.xml

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with meursing table plan id = *01*.

Transaction 2:

- Message 1: Request the meursing table plan with query space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = *=*, constant = *1*.

Transaction 3:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *01*.

Transaction 4:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *01*, start date = *2000-01-01*.

Transaction 5:

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- Message 1: Insert an unstable meursing table plan with meursing table plan id = *01a*.

Transaction 6:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *11*, start date = *2009-05-01*, end date = *2008-04-01*.

Transaction 7:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *11*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - subheading 1: sequence number = *0001*, start date = *2000-01-01*, description = *subheading description*.
 - subheading 2: sequence number = *0002*, start date = *2000-01-01*, description = *subheading description*.
 - heading 2: meursing heading number = *002*, row column 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 8:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *12*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2000-01-01*:
 - description 1: language id = *EN*, description = *English description*.

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- description 2: language id = *FR*.

Transaction 9:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.

Transaction 10:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *13*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - subheading 1: sequence number = *0001*, start date = *2008-01-01*, description = *subheading*.

Transaction 11:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *14*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id =

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ACD, footnote id = *01000*, start date = *2008-01-01*.

Transaction 12:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *15*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id = *FTA*, footnote id = *00001*.

Transaction 13:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *16*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id = *MUR*, footnote id = *19100*, start date = *2009-01-01*.

Transaction 14:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *17*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - 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*.
- associated footnote 1: footnote type id = *MUR*, footnote id = *19200*, start date = *2009-01-01*.
- associated footnote 2: footnote type id = *MUR*, footnote id = *19200*, start date = *2009-01-01*.

Transaction 15:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = *18*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id = *FTE*, footnote id = *19000*.
 - associated footnote 2: footnote type id = *MUR*, footnote id = *19100*.

Expected output:

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on meursing.table.plan.ref : VR-ME-1: The Meursing table plan ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : VR-ME-1: The Meursing table plan ID must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on meursing.table.plan.id : GEN-INVALID-

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FORMAT-ERROR: Invalid format.

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 10:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 11:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 12:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Reply to transaction 13:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 14:

- 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 15:

- Message 1, on meursing.table.plan.ref : VR-ME-25: The referenced footnote must have a footnote type with application type = 'Meursing table plan footnotes'.

Message: dm_me_insert_02.xml

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with

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meursing table plan id = 01, start date = 2000-01-01.

Transaction 2:

- Message 1: Request the meursing table plan with query space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = =, constant = 1.

Transaction 3:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2000-01-01.

Transaction 4:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01.

Transaction 5:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01a.

Transaction 6:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 11, start date = 2009-05-01, end date = 2008-04-01.

Transaction 7:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 11, start date = 2000-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - subheading 1: sequence number = 0001, start date = 2000-01-01, description = *description*.
 - subheading 2: sequence number = 0002, start date = 2000-01-01, description = *description*.
 - heading 2: meursing heading number = 002, row column code = 1, 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 8:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2000-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2000-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French Description*.

Transaction 9:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2008-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 10:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - subheading 1: sequence number = *0001*,
start date = *2008-01-01*, description = *subheading*.

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Transaction 11:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - associated footnote 1: footnote type id = ACE, footnote id = 01000, start date = 2008-01-01.

Transaction 12:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - associated footnote 1: footnote type id = FTA, footnote id = 00001, start date = 2009-01-01.

Transaction 13:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL,

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description = *Dutch description*.

- associated footnote 1: footnote type id = *CI*, footnote id = *015*, start date = *2009-01-01*.

Transaction 14:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2006-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2006-01-01*:
 - description 1: language id = *EN*, description = *English description*.
 - description 2: language id = *FR*, description = *French description*.
 - description 3: language id = *NL*, description = *Dutch description*.
 - associated footnote 1: footnote type id = *MUK*, footnote id = *19100*, start date = *2006-01-01*.

Transaction 15:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id = *MUK*, footnote id = *19200*, start date = *2009-01-01*.
 - associated footnote 2: footnote type id = *MUK*, footnote id = *19200*, start date = *2009-01-01*.

Transaction 16:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row

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column code = 0, 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*.
- associated footnote 1: footnote type id = *FTU*, footnote id = *19000*, start date = *2009-01-01*.

**Expected
output:**

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

- Message 1, on meursing.table.plan.ref : VR-ME-1: The Meursing table plan ID must be unique in the universe of the stable and unstable data.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : VR-ME-1: The Meursing table plan ID must be unique in the universe of the stable and unstable data.

Reply to transaction 5:

- Message 1, on meursing.table.plan.id : GEN-INVALID-FORMAT-ERROR: Invalid format.

Reply to transaction 6:

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

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on heading : VR-ME-9: The validity period of the heading must be within (inclusively) the validity

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period of the plan.

Reply to transaction 10:

- Message 1, on subheading : VR-ME-14: The validity period of the subheading must be within (inclusively) the validity period of the heading.

Reply to transaction 11:

- Message 1, on associated.footnote.ref : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.

Reply to transaction 12:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Reply to transaction 13:

- Message 1, on meursing.table.plan.ref : VR-ME-6: The referenced associated footnotes must be stable when the Meursing table plan is stable.
- Message 1, on meursing.table.plan.ref : VR-ME-23: The period of the association with a footnote must be within (inclusive) the validity period of the footnote.

Reply to transaction 14:

- Message 1, on meursing.table.plan.ref : VR-ME-23: The period of the association with a footnote must be within (inclusive) the validity period of the footnote.

Reply to transaction 15:

- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same heading then there may be no overlap in their association periods.
- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same heading then there may be no 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 16:

- Message 1, on meursing.table.plan.ref : VR-ME-25: The referenced footnote must have a footnote type with application type = 'Meursing table plan footnotes'.

Message: **dm_me_insert_03.xml**

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

Content: The message is composed of the following transactions:

Transaction 1: Transaction 1:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - associated footnote 1: footnote type id = NNN, footnote id = 10000, start date = 2009-01-01.

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Message: **dm_me_insert_04.xml**

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.

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- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.
- associated footnote 1: footnote type id = *MUK*, footnote id = *01500*, start date = *2009-01-01*.

Transaction 2:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *01*.

Transaction 3:

- Message 1: Insert a stable meursing table plan with meursing table plan id = *12*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - associated footnote 1: footnote type id = *MUK*, footnote id = *19100*.

Expected output:

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : VR-ME-6: The referenced associated footnotes must be stable when the Meursing table plan 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.

Reply to transaction 3:

- Message 1, on associated.footnote.ref : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.
- Message 1, on start.date : VR-VI-7: When the

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publication status of data is set to "stable", all information tagged as mandatory in the data elements has to be provided.

2.2.3. Test case dm_me_di_insert: Insertion of a Meursing heading description

Message: dm_me_di_insert_01.xml

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *-French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *"French description"*.
 - description 3: language id = NL, description = *"Dutch description"*.

Transaction 3:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row

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column code = 0, start date = 2009-01-01:

- description 1: language id = EN,
description = *English description*.
- description 2: language id = FR,
description = *French description is this text with a multilingual description which contains more than 500 characters:*
- description 3: language id = NL,
description = *Dutch description*.

Transaction 4:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.

Transaction 5:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, 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 = XX,
description = *description for a nonexistent language*.
 - description 4: language id = NL,
description = *Dutch description*.

Transaction 6:

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- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English / description*.
 - description 2: language id = FR, description = *French description/*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 7:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description:*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 8:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.

Transaction 9:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN,

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description = *English kg: description*.

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

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

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

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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_me_di_insert_02.xml**

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *-French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Insert a stable meursing table plan with

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meursing table plan id = 01, start date = 2009-01-01:

- heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *"French description"*.
 - description 3: language id = NL, description = *"Dutch description"*.

Transaction 3:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description is this text with a multilingual description which contains more than 500 characters:*
 - description 3: language id = NL, description = *Dutch description*.

Transaction 4:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.

Transaction 5:

- Message 1: Insert a stable meursing table plan with

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meursing table plan id = 01, start date = 2009-01-01:

- heading 1: meursing heading number = 001, row column code = 0, 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 = XX, description = *description for a nonexistent language*.
 - description 4: language id = NL, description = *Dutch description*.

Transaction 6:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English / description*.
 - description 2: language id = FR, description = *French description/*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 7:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description:*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 8:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row

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column code = 0, 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.*

Transaction 9:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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 description.*

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

2.2.4. Test case dm_me_update: Update of a Meursing table plan

Message: dm_me_update_setup_01.xml

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

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Content:

Transaction 1:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 01, start date = 2009-01-01.

Transaction 2:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01.

Transaction 3:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01.

Transaction 4:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 13, start date = 2009-01-01.

Transaction 5:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 14, start date = 2009-01-01.

Expected output:

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Reply to transaction 3: Status ok.

Reply to transaction 4: Status ok.

Reply to transaction 5: Status ok.

Message:

dm_me_update_01.xml

Precondition:

Make sure the *dm_me_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 meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR,

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description = *French description*.

- description 3: language id = *NL*,
description = *Dutch description*.
- subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.
- subheading 2: sequence number = *0020*,
start date = *2009-01-01*, description =
subheading.
- heading 2: meursing heading number = *001*, row
column code = *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*.
 - subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.
 - subheading 2: sequence number = *0020*,
start date = *2009-01-01*, description =
subheading.
- Message 2: Insert an unstable meursing additional code
with meursing additional code id = *001*:
 - meursing table cell component 1: meursing table
plan id = *01*, meursing heading number = *001*,
row column code = *0*, sequence number = *0010*.
 - meursing table cell component 2: meursing table
plan id = *01*, meursing heading number = *001*,
row column code = *1*, sequence number = *0010*.
 - meursing table cell component 3: meursing table
plan id = *01*, meursing heading number = *001*,
row column code = *0*, sequence number = *0020*.
 - meursing table cell component 4: meursing table
plan id = *01*, meursing heading number = *001*,
row column code = *1*, sequence number = *0020*.

Transaction 2:

- Message 1: Request the meursing table plan with query
space field = *MEURSING TABLE PLAN.MEURSING*

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*TABLE PLAN REF.Meursing table plan id, operator = =,
constant = 1.*

Transaction 3:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 01, start date = 2009-05-01, end date = 2008-04-01.

Transaction 4:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2008-01-01:

Transaction 5:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0001, start date = 2008-01-01, description = *subheading*.

Transaction 6:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *ACD*, footnote id = 1000, start date = 2008-01-01.

Transaction 7a:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 010, row column code = 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description =

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subheading.

- heading 2: meursing heading number = 010, row column code = 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.*
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading.*
- heading 3: meursing heading number = 020, row column code = 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.*
 - subheading 1: sequence number = 0070, start date = 2009-01-01, description = *subheading.*
- heading 4: meursing heading number = 020, row column code = 0, 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.*
 - subheading 1: sequence number = 0070, start date = 2009-01-01, description = *subheading.*

Transaction 7b:

- Message 1: Insert an unstable meursing additional code with meursing additional code id = 002, start date = 2009-01-01:

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- meursing table cell component 1: meursing table plan id = 12, meursing heading number = 010, row column code = 0, sequence number = 0010, start date = 2009-01-01.
- meursing table cell component 2: meursing table plan id = 12, meursing heading number = 010, row column code = 1, sequence number = 0010, start date = 2009-01-01.
- meursing table cell component 3: meursing table plan id = 12, meursing heading number = 020, row column code = 0, sequence number = 0070, start date = 2009-01-01.
- meursing table cell component 4: meursing table plan id = 12, meursing heading number = 020, row column code = 1, sequence number = 0070, start date = 2009-01-01.

Transaction 7c:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 010, row column code = 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2010-01-01, description = *subheading*.
 - heading 2: meursing heading number = 010, row column code = 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description =

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subheading.

- heading 3: meursing heading number = 020, row column code = 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.*
 - subheading 1: sequence number = 0070, start date = 2009-01-01, description = *subheading.*
- heading 4: meursing heading number = 020, row column code = 0, 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.*
 - subheading 1: sequence number = 0070, start date = 2009-01-01, description = *subheading.*

Transaction 8:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 14, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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.*
 - associated footnote 1: footnote type id = FTA, footnote id = 0001.

Transaction 9:

- Message 1: Update the unstable meursing table plan with

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meursing table plan id = 14, start date = 2009-01-01:

- heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = MUR, footnote id = 19100, start date = 2009-01-01.

Transaction 10:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 14, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = MUR, footnote id = 19200, start date = 2009-01-01.
 - associated footnote 2: footnote type id = MUR, footnote id = 19200, start date = 2009-01-01.

Transaction 11:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 14, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = FTE, footnote id = 19000.

Expected output:

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 5:

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- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 6:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 7a:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 7b:

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

Reply to transaction 7c:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 8:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Reply to transaction 9:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 10:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 11:

- Message 1, on meursing.table.plan.ref : VR-ME-25: The referenced footnote must have a footnote type with application type = 'Meursing table plan footnotes'.

Message: dm_me_update_02.xml

Precondition: Make sure the *dm_me_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 meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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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- subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- heading 2: meursing heading number = 002, row column code = 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = 001, start date = 2009-01-01:
 - meursing table cell component 1: meursing table plan id = 01, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2009-01-01.
 - meursing table cell component 2: meursing table plan id = 01, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01.
 - meursing table cell component 3: meursing table plan id = 01, meursing heading number = 002, row column code = 1, sequence number = 0010, start date = 2009-01-01.
 - meursing table cell component 4: meursing table plan id = 01, meursing heading number = 002, row column code = 1, sequence number = 0020, start date = 2009-01-01.

Transaction 2:

- Message 1: Request the meursing table plan with query

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space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-05-01, end date = 2008-04-01.

Transaction 4:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2008-01-01:

Transaction 5:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0001, start date = 2008-01-01, description = *subheading*.

Transaction 6:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *ACE*, footnote id = 01000, start date = 2008-01-01.

Transaction 7:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0001, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0002, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 001, row

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column code = 1, start date = 2009-01-01:

- subheading 1: sequence number = 0001, start date = 2009-01-01, description = *subheading*.
- subheading 2: sequence number = 0002, start date = 2009-01-01, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = 002, start date = 2009-01-01:
 - meursing table cell component 1: meursing table plan id = 12, meursing heading number = 001, row column code = 0, sequence number = 0001, start date = 2009-01-01.
 - meursing table cell component 2: meursing table plan id = 12, meursing heading number = 001, row column code = 0, sequence number = 0002, start date = 2009-01-01.
 - meursing table cell component 3: meursing table plan id = 12, meursing heading number = 001, row column code = 1, sequence number = 0001, start date = 2009-01-01.
 - meursing table cell component 4: meursing table plan id = 12, meursing heading number = 001, row column code = 1, sequence number = 0002, start date = 2009-01-01.
- Message 3: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0001, start date = 2010-01-01, description = *subheading*.
 - subheading 2: sequence number = 0002, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 001, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0001, start date = 2009-01-01, description = *subheading*.

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- subheading 2: sequence number = 0002, start date = 2009-01-01, description = *subheading*.

Transaction 8:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *FTA*, footnote id = 00001, start date = 2009-01-01.

Transaction 9:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *MUR*, footnote id = 19100, start date = 2009-01-01.

Transaction 10:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *MUK*, footnote id = 19100, start date = 2009-01-01.
 - associated footnote 2: footnote type id = *MUK*, footnote id = 19100, start date = 2009-01-01.

Transaction 11:

- Message 1: Update the stable meursing table plan with meursing table plan id = 12, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = *FTU*, footnote id = 19000, start date = 2009-01-01.

Transaction 12:

- Message 1: Update the stable meursing table plan with

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meursing table plan id = 12, start date = 2010-01-01:

- heading 1: meursing heading number = 001, row column code = 0, start date = 2010-01-01:
 - associated footnote 1: footnote type id = CI, footnote id = 015, start date = 2010-01-01.

**Expected
output:**

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on start.date : VR-ME-9: The validity period of the heading must be within (inclusively) the validity period of the plan.

Reply to transaction 5:

- Message 1, on start.date : VR-ME-14: The validity period of the subheading must be within (inclusively) the validity period of the heading.

Reply to transaction 6:

- Message 1, on start.date : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.
- Message 3, on meursing.subheading.ref : VR-ME-19: The validity period of the subheading must span the validity period of the Meursing table cell component.

Reply to transaction 8:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Reply to transaction 9:

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- Message 1, on meursing.table.plan.ref : VR-ME-23: The period of the association with a footnote must be within (inclusive) the validity period of the footnote.

Reply to transaction 10:

- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same heading then there may be no overlap in their association periods.
- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same heading then there may be no 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 11:

- Message 1, on meursing.table.plan.ref : VR-ME-25: The referenced footnote must have a footnote type with application type = 'Meursing table plan footnotes'.

Reply to transaction 12:

- Message 1, on meursing.table.plan.ref : VR-ME-6: The referenced associated footnotes must be stable when the Meursing table plan is stable.

Message: dm_me_update_03.xml

Precondition: Make sure the *dm_me_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 meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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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- subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = 001, start date = 2009-01-01:
 - meursing table cell component 1: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2009-01-01.
 - meursing table cell component 2: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01.
 - meursing table cell component 3: meursing table plan id = 11, meursing heading number = 002, row column code = 1, sequence number = 0010, start date = 2009-01-01.
 - meursing table cell component 4: meursing table plan id = 11, meursing heading number = 002, row column code = 1, sequence number = 0020, start date = 2009-01-01.

Transaction 2:

- Message 1: Request the meursing table plan with query space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = =, constant = 1.

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-05-01, end date = 2008-04-01.

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Transaction 4:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2008-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 5:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2008-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 6:

- Message 1: Update the stable meursing table plan with

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meursing table plan id = 11, start date = 2009-01-01:

- heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - associated footnote 1: footnote type id = ACE, footnote id = 01000, start date = 2008-01-01.
- heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 7:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:

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- subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- Message 2: Insert a stable meursing additional code with meursing additional code id = 002, start date = 2010-01-01:
 - meursing table cell component 1: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2010-01-01.
 - meursing table cell component 2: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2010-01-01.
 - meursing table cell component 3: meursing table plan id = 11, meursing heading number = 002, row column code = 1, sequence number = 0010, start date = 2010-01-01.
 - meursing table cell component 4: meursing table plan id = 11, meursing heading number = 002, row column code = 1, sequence number = 0020, start date = 2010-01-01.
- Message 3: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = n, 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2011-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

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- heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 8:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - associated footnote 1: footnote type id = FTA, footnote id = 01000, start date = 2009-01-01.
 - heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 9:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

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subheading.

- associated footnote 1: footnote type id = *MUR*, footnote id = *19100*, start date = *2009-01-01*.
- heading 2: meursing heading number = *002*, row column code = *1*, start date = *2009-01-01*:
 - subheading 1: sequence number = *0010*, start date = *2009-01-01*, description = *subheading.*
 - subheading 2: sequence number = *0020*, start date = *2009-01-01*, description = *subheading.*

Transaction 10:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - subheading 1: sequence number = *0010*, start date = *2009-01-01*, description = *subheading.*
 - subheading 2: sequence number = *0020*, start date = *2009-01-01*, description = *subheading.*
 - associated footnote 1: footnote type id = *MUR*, footnote id = *19200*, start date = *2009-01-01*.
 - associated footnote 2: footnote type id = *MUR*, footnote id = *19200*, start date = *2009-01-01*.
 - heading 2: meursing heading number = *002*, row column code = *1*, start date = *2009-01-01*:
 - subheading 1: sequence number = *0010*, start date = *2009-01-01*, description = *subheading.*
 - subheading 2: sequence number = *0020*, start date = *2009-01-01*, description = *subheading.*

Transaction 11:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:

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- heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - associated footnote 1: footnote type id = *FTU*, footnote id = 19000, start date = 2009-01-01.
- heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 12:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - associated footnote 1: footnote type id = *MUK*, footnote id = 01500, start date = 2009-01-01.
 - heading 2: meursing heading number = 002, row column code = 1, start date = 2009-01-01:
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description =

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subheading.

**Expected
output:**

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.

Reply to transaction 2:

- Message 1 : OK.

Reply to transaction 3:

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

Reply to transaction 4:

- Message 1, on heading[1] : VR-ME-9: The validity period of the heading must be within (inclusively) the validity period of the plan.

Reply to transaction 5:

- Message 1, on subheading[1] : VR-ME-14: The validity period of the subheading must be within (inclusively) the validity period of the heading.

Reply to transaction 6:

- Message 1, on associated.footnote.ref : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.

Reply to transaction 7:

- Message 1, on meursing.table.plan.ref : OK.
- Message 2, on meursing.additional.code.ref : OK.
- Message 3, on meursing.subheading.ref : VR-ME-19: The validity period of the subheading must span the validity period of the Meursing table cell component.

Reply to transaction 8:

- Message 1, on meursing.table.plan.ref : VR-ME-21: The referenced footnotes must exist.

Reply to transaction 9:

- Message 1, on meursing.table.plan.ref : VR-ME-23: The period of the association with a footnote must be within (inclusive) the validity period of the footnote.

Reply to transaction 10:

- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same

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heading then there may be no overlap in their association periods.

- Message 1, on start.date : VR-ME-24: When the same footnote is associated more than once with the same heading then there may be no 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 11:

- Message 1, on meursing.table.plan.ref : VR-ME-25: The referenced footnote must have a footnote type with application type = 'Meursing table plan footnotes'.

Reply to transaction 12:

- Message 1, on meursing.table.plan.ref : VR-ME-6: The referenced associated footnotes must be stable when the Meursing table plan is stable.

Message: **dm_me_update_04.xml**

Precondition: Make sure the *dm_me_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 meursing table plan with meursing table plan id = 99, start date = 2009-05-01.

Transaction 2:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = MUK, footnote id = 19100, start date = 2009-01-01.

Transaction 3:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN,

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description = *English description*.

- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.
- subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.
- heading 2: meursing heading number = *001*, row
column code = *0*, 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*.
 - subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.

Transaction 4:

- Message 1: Update the unstable meursing table plan with
meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row
column code = *0*, 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*.
 - subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.
 - subheading 2: sequence number = *0020*,
start date = *2009-01-01*, description =
subheading.
 - heading 2: meursing heading number = *001*, row
column code = *1*, start date = *2009-01-01*:

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- description 1: language id = *EN*,
description = *English description*.
- description 2: language id = *FR*,
description = *French description*.
- description 3: language id = *NL*,
description = *Dutch description*.
- subheading 1: sequence number = *0010*,
start date = *2009-01-01*, description =
subheading.
- subheading 2: sequence number = *0020*,
start date = *2009-01-01*, description =
subheading.

Transaction 5:

- Message 1: Insert an unstable meursing additional code with meursing additional code id = *001*, start date = *2009-01-01*, meursing additional code sid = *1*:
 - meursing table cell component 1: meursing table plan id = *01*, meursing heading number = *001*, row column code = *0*, sequence number = *0010*, start date = *2009-01-01*, meursing table cell component sid = *1*.
 - meursing table cell component 2: meursing table plan id = *01*, meursing heading number = *001*, row column code = *1*, sequence number = *0010*, start date = *2009-01-01*, meursing table cell component sid = *2*.
 - meursing table cell component 3: meursing table plan id = *01*, meursing heading number = *001*, row column code = *0*, sequence number = *0020*, start date = *2009-01-01*, meursing table cell component sid = *3*.
 - meursing table cell component 4: meursing table plan id = *01*, meursing heading number = *001*, row column code = *1*, sequence number = *0020*, start date = *2009-01-01*, meursing table cell component sid = *4*.

Transaction 6:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*.

Expected output:

The message is composed of transactions replying to the original transactions: Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : VR-VI-1: Data to

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be updated must exist.

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on heading[1] : VR-ME-26: The meursing heading reference must be unique.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

Message: **dm_me_update_05.xml**

Precondition: Make sure the *dm_me_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 meursing table plan with meursing table plan id = 99, start date = 2009-05-01.

Transaction 2:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01.

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:

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- associated footnote 1: footnote type id = *MUK*, footnote id = *19100*, start date = *2008-01-01*.

Transaction 4:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.
 - subheading 1: sequence number = *0010*, start date = *2009-01-01*, description = *subheading*.
 - subheading 2: sequence number = *0020*, start date = *2009-01-01*, description = *subheading*.
 - heading 2: meursing heading number = *001*, row column code = *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*.
 - subheading 1: sequence number = *0010*, start date = *2009-01-01*, description = *subheading*.
 - subheading 2: sequence number = *0020*, start date = *2009-01-01*, description = *subheading*.

Transaction 5:

- Message 1: Insert an unstable meursing additional code with meursing additional code id = *001*, start date = *2009-01-01*, meursing additional code sid = *1*:
 - meursing table cell component 1: meursing table plan id = *01*, meursing heading number = *001*,

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row column code = 0, sequence number = 0010,
start date = 2009-01-01, meursing table cell
component sid = 1.

- meursing table cell component 2: meursing table plan id = 01, meursing heading number = 001, row column code = 1, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 2.
- meursing table cell component 3: meursing table plan id = 01, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 3.
- meursing table cell component 4: meursing table plan id = 01, meursing heading number = 001, row column code = 1, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 4.

Transaction 6:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on associated.footnote.ref : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

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- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

Message: **dm_me_update_06.xml**

Precondition: Make sure the *dm_me_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 meursing table plan with meursing table plan id = 99, start date = 2009-05-01.

Transaction 2:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11.

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - associated footnote 1: footnote type id = MUK, footnote id = 19100, start date = 2008-01-01.

Transaction 4:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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.
 - subheading 1: sequence number = 0010,

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start date = 2009-01-01, description = *subheading*.

- subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
- heading 2: meursing heading number = 001, row column code = 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 5:

- Message 1: Insert a stable meursing additional code with meursing additional code id = 001, start date = 2009-01-01, meursing additional code sid = 1:
 - meursing table cell component 1: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 1.
 - meursing table cell component 2: meursing table plan id = 11, meursing heading number = 001, row column code = 1, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 2.
 - meursing table cell component 3: meursing table plan id = 11, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 3.
 - meursing table cell component 4: meursing table plan id = 11, meursing heading number = 001, row column code = 1, sequence number = 0020, start date = 2009-01-01, meursing table cell

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component sid = 4.

Transaction 6:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01.

Expected output:

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on associated.footnote.ref : VR-ME-15: The period of the association with a footnote must be within (inclusive) the validity period of the heading.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

2.2.5. Test case dm_me_delete: Deletion of a Meursing Table Plan

Message: dm_me_delete_setup_01.xml

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_setup.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 meursing table plan with meursing table plan id = 01, start date = 2009-01-01.

Transaction 2:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01.

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

Reply to transaction 1: Status ok.

Reply to transaction 2: Status ok.

Message: **dm_me_delete_01.xml**

Precondition: Make sure the message *dm_me_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 meursing table plan with meursing table plan id = 01.

Transaction 2:

- Message 1: Delete the meursing table plan with meursing table plan id = 11.

Transaction 3:

- Message 1: Request the meursing table plan with query space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = =, constant = 01.
- Message 2: Request the meursing table plan with query space field = *MEURSING TABLE PLAN.MEURSING TABLE PLAN REF.Meursing table plan id*, operator = =, constant = 11.

Transaction 4:

- Message 1: Delete the meursing table plan with meursing table plan id = 01.

Transaction 5:

- Message 1: Delete the meursing table plan with meursing table plan id = 11.

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Expected output:

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 2:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Message:

dm_me_delete_02.xml

Precondition:

Make sure the message *dm_me_delete_setup_01.xml* has been correctly processed by the system.

Content:

The message is composed of the following transactions:

Transaction 1:

- Message 1: Insert an unstable meursing table plan with meursing table plan id = 13, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description =

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subheading.

- heading 2: meursing heading number = 001, row column code = 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.*
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading.*
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading.*

Transaction 2:

- Message 1: Insert an unstable meursing additional code with meursing additional code id = 001, start date = 2009-01-01, meursing additional code sid = 1:
 - meursing table cell component 1: meursing table plan id = 13, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 1.
 - meursing table cell component 2: meursing table plan id = 13, meursing heading number = 001, row column code = 1, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 2.
 - meursing table cell component 3: meursing table plan id = 13, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 3.
 - meursing table cell component 4: meursing table plan id = 13, meursing heading number = 001, row column code = 1, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 4.

Transaction 3:

- Message 1: Delete the meursing table plan with meursing table plan id = 13.

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Transaction 4:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 14, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.
 - heading 2: meursing heading number = 001, row column code = 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*.
 - subheading 1: sequence number = 0010, start date = 2009-01-01, description = *subheading*.
 - subheading 2: sequence number = 0020, start date = 2009-01-01, description = *subheading*.

Transaction 5:

- Message 1: Insert a stable meursing additional code with meursing additional code id = 002, start date = 2009-01-01, meursing additional code sid = 2:
 - meursing table cell component 1: meursing table plan id = 14, meursing heading number = 001, row column code = 0, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 10.

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- meursing table cell component 2: meursing table plan id = 14, meursing heading number = 001, row column code = 1, sequence number = 0010, start date = 2009-01-01, meursing table cell component sid = 11.
- meursing table cell component 3: meursing table plan id = 14, meursing heading number = 001, row column code = 0, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 12.
- meursing table cell component 4: meursing table plan id = 14, meursing heading number = 001, row column code = 1, sequence number = 0020, start date = 2009-01-01, meursing table cell component sid = 13.

Transaction 6:

- Message 1: Delete the meursing table plan with meursing table plan id = 14.

Expected output:

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

Reply to transaction 1:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 2:

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

Reply to transaction 3:

- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

Reply to transaction 4:

- Message 1, on meursing.table.plan.ref : OK.

Reply to transaction 5:

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

Reply to transaction 6:

- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

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- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.
- Message 1, on heading.list : VR-ME-20: A subheading cannot be deleted if it is used in a Meursing table cell.

2.2.6. Test case dm_me_di_update: Update of a Meursing heading description

Message: dm_me_di_update_setup_01.xml

Precondition: Make sure the database is empty, then, load the testing reference data in the system. For this purpose, *init_ref_meursing_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 meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Insert a stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *French description*.
 - description 3: language id = NL, description = *Dutch description*.

Expected 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.

Message:

dm_me_di_update_01.xml

Precondition:

Make sure the dm_me_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 meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *- French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *"French description"*.
 - description 3: language id = NL, description = *"Dutch description"*.

Transaction 3:

- Message 1: Update the unstable meursing table plan with meursing table plan id = 01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN,

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description = *English description*.

- description 2: language id = *FR*,
description = *French description witch contains to many characters*
- description 3: language id = *NL*,
description = *Dutch description*.

Transaction 4:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.

Transaction 5:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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 = *XX*,
description = *description for a nonexistent language*.
 - description 4: language id = *NL*,
description = *Dutch description*.

Transaction 6:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:

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

Transaction 7:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 8:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.

Transaction 9:

- Message 1: Update the unstable meursing table plan with meursing table plan id = *01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*,

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description = *Dutch description*.

**Expected
output:**

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

Reply to transaction 1:

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

Reply to transaction 2:

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

Reply to transaction 3:

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

Reply to transaction 4:

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

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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_me_di_update_02.xml

Precondition: Make sure the dm_me_di_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.
 - description 2: language id = FR, description = *- French description*.
 - description 3: language id = NL, description = *Dutch description*.

Transaction 2:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = *English description*.

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

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description witch contains to many characters*
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 4:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.

Transaction 5:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.

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- description 3: language id = *XX*,
description = *description for a nonexistent language*.
- description 4: language id = *NL*,
description = *Dutch description*.

Transaction 6:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English / description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 7:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 8:

- Message 1: Update the stable meursing table plan with meursing table plan id = *01*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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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Transaction 9:

- Message 1: Update the stable meursing table plan with meursing table plan id = 01, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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 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

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cannot end with double point ':'.

Reply to transaction 8:

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

Reply to transaction 9:

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

Message: dm_me_di_update_03.xml

Precondition: Make sure the dm_me_di_update_setup_01.xml message has been successfully processed.

Content: The message is composed of the following transactions:

Transaction 1:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, start date = 2009-01-01:
 - description 1: language id = EN, description = English description.

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

Transaction 2:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = "*French description*".
 - description 3: language id = *NL*,
description = "*Dutch description*".

Transaction 3:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English description*.
 - description 2: language id = *FR*,
description = *French description witch contains to many characters.....*
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 4:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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*.

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

Transaction 5:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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 = *XX*,
description = *description for a nonexistent language*.
 - description 4: language id = *NL*,
description = *Dutch description*.

Transaction 6:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, start date = *2009-01-01*:
 - description 1: language id = *EN*,
description = *English / description*.
 - description 2: language id = *FR*,
description = *French description*.
 - description 3: language id = *NL*,
description = *Dutch description*.

Transaction 7:

- Message 1: Update the stable meursing table plan with meursing table plan id = *11*, start date = *2009-01-01*:
 - heading 1: meursing heading number = *001*, row column code = *0*, 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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Transaction 8:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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.*

Transaction 9:

- Message 1: Update the stable meursing table plan with meursing table plan id = 11, start date = 2009-01-01:
 - heading 1: meursing heading number = 001, row column code = 0, 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 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.

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DATA MAINTENANCE	Ref: TARIC3-STP
MEURSING TABLE PLAN	

Reply to transaction 5:

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

Reply to transaction 6:

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

Reply to transaction 7:

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

Reply to transaction 8:

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

Reply to transaction 9:

- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and a comma or between a blank and a dot or between a blank and a colon or between a blank and a semi-colon.
- Message 1, on description : VR-DI-11: Description text may not contain an occurrence of a predefined characterstring between blanks or between a blank and 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 7	
TEST REPORT FORM	Ref: TARIC3-STP
ENVIRONMENT DESCRIPTION	

3. TEST REPORT FORM

3.1. Environment description

Hardware platform	Sun
Operating system	Solaris X
Official release number ¹	n1.n2.n3
ClearCase label ²	TARIC3_INT_YYYYMMDD[x] or TARIC3_n1.n2.n3
System Test File version	1.00
Execution date	YYYY-MM-DD

3.2. Test case execution

Test case id	dm_mt_insert	Status
Message id	dm_mt_insert_01.xml	Status
Transaction id	Status	Comment
1		
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12		
13		
Message id	dm_mt_insert_02.xml	Status
Transaction id	Status	Comment
1		
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11		

¹ This information must only be filled in for testing of official delivery (e.g. 1.0.0).

² This information is only available to the development team and identifies the tested internal version.

DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

12

13

14

Message id	dm_mt_insert_03.xml	Status
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Transaction id	Status	Comment
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1

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Message id	dm_mt_insert_04.xml	Status
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Transaction id	Status	Comment
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Message id	dm_mt_di_insert_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_mt_di_insert_02.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_mt_update	Status
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Message id	dm_mt_update_setup_01.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_mt_update_01.xml	Status
Transaction id	Status	Comment

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Message id	dm_mt_update_02.xml	Status
Transaction id	Status	Comment

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Message id	dm_mt_update_03.xml	Status
Transaction id	Status	Comment

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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_mt_update_04.xml	Status
Transaction id	Status	Comment
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Message id	dm_mt_update_05.xml	Status
Transaction id	Status	Comment
1		
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17		

Message id	dm_mt_update_06.xml	Status
Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

17

18

Test case id	dm_mt_delete	Status
Message id	dm_mt_delete_setup_01.xml	Status
Transaction id	Status	Comment

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Message id	dm_mt_delete_01.xml	Status
Transaction id	Status	Comment

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Test case id	dm_mt_di_update	Status
Message id	dm_mt_di_update_setup_01.xml	Status
Transaction id	Status	Comment

1

Message id	dm_mt_di_update_01.xml	Status
Transaction id	Status	Comment

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DG TAXUD – TARIC3-STP – System Test Plan - Part 7		
TEST REPORT FORM		Ref: TARIC3-STP
TEST CASE EXECUTION		

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Message id	dm_mt_di_update_02.xml	Status
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Transaction id	Status	Comment
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Message id	dm_mt_di_update_03.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_me_insert	Status
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Message id	dm_me_insert_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_me_insert_02.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_me_insert_03.xml	Status
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Transaction id	Status	Comment
1		

Message id	dm_me_insert_04.xml	Status
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Transaction id	Status	Comment
1		
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3		

Message id	dm_me_di_insert_01	Status
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Transaction id	Status	Comment
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Message id	dm_me_di_insert_02	Status
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Transaction id	Status	Comment
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Test case id	dm_me_update	Status
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Message id	dm_me_update_setup_01.xml	Status
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Transaction id	Status	Comment
1		

Message id	dm_me_update_01.xml	Status
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Transaction id	Status	Comment
1		
2		

DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_me_update_02.xml	Status
Transaction id	Status	Comment
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Message id	dm_me_update_03.xml	Status
Transaction id	Status	Comment
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Message id	dm_me_update_04.xml	Status
Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

6

Message id	dm_me_update_05.xml	Status
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Transaction id	Status	Comment
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Message id	dm_me_update_06.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_me_delete	Status
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Message id	dm_me_delete_setup_01.xml	Status
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Transaction id	Status	Comment
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1

Message id	dm_me_delete_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_me_delete_02.xml	Status
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Transaction id	Status	Comment
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Test case id	dm_me_di_update	Status
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Message id	dm_me_di_update_setup_01.xml	Status
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Transaction id	Status	Comment
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1

Message id	dm_me_di_update_01.xml	Status
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Transaction id	Status	Comment
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Message id	dm_me_di_update_02.xml	Status
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Transaction id	Status	Comment
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DG TAXUD – TARIC3-STP – System Test Plan - Part 7	
TEST REPORT FORM	Ref: TARIC3-STP
TEST CASE EXECUTION	

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Message id	dm_me_di_update_03.xml	Status
Transaction id	Status	Comment
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